## CIIMATE, VITAL STATISTICS, AND BENEVOLFNT INSTITUTIONS OF IADIA

The clumate of India embraces all the varieties of temperature that preval betreen the Equator and the ever frozen regions of the Himalaya Muuntans, it is equally varied in its physical characteristics, configuration, aspect, surface, soll, and vegetable products

Chat the insalubrty of the climate generally, has been greatly exaggerated, will appear evident from the followng stathstical accounts, condensed from numerous returns, running over periods of twenty years, and chefly from the actusl statistics of the troops in Inda, collated and prepared by Colonel Sykes

The first class of documents which he refers to as authonty, was drawn up by the multary auditor general in Bombay, General Barr, with a view to determine the effect of the climate of Scinde upon the health of the troops emploged mn that provnce

The ongmal returns of the frst class, for the years 18423 and 1844, independently of the sackness, mortality, and invaliding of the soldsers from the ages of twenty to fifty two, of every regment of the Bombay army, exhibit also all casualties from deserLons, discharges, transfers, \&e, together with the country and caste of every soldier, the station at which the regiment was located in each jear, and the dates of arrival and depurture A distinct return is made for the troops serving in Scinde
'I he total number of men in the Bombay army in the year 1842 was 32,727 , and the deaths 1070 , or 32 per cent per annum In 1843, the troops numbered 32,464, and the deaths 871 , or 27 per cent In 1844, the numbers were 33,970, and the deaths 732 , or 225 per cent, the deaths in all cases beng meluslve of those from cholera The per centage mortality at each age shows that the maximum mortahty was 625 per cent in the year 1842, at the age of fiftyone, whule the two followng years at that age gave respectively only 233 per cent and 244 per cent, the rammum at any age was 092 at the age of afty, in the year 1844, while in the preceding years it was respectively 364 and 593 at that age The mean maximum was at the age of fifly-one, being 378 per cent, the mean minimum being 220 per cent at the age of thrty-seven In the mortaily of the troops serving mu Scinde, as dustingushed from the mortality of the troops serving in other parts of the terntory under the Bombay government, the per centage is struck at every age of life, and upon the average, and upon the averages for quanquennal periods of life At every age the mortality in these troops is found to be constderably enhanced, the mean maximum being 495 per cent between the ages of forty one to forty-five inclusive, the per centage for the ages fifty-one and fifty two being nearly the same, the mean minmum 364
between the ages of forty six and fifty melusive，and the mean of the whole mortality of the troops serving in Scinde， 433 per cent

The mortality of the troops who did not serve in Scinde，shows that the maximum mean mortality was 312 per cent between the ages of forty six and fifty inclusive，the mmonum 181 per cent between the ages of tharty－six and forty inclusive，and the mean mortality of all ages，for the whole penod，is 197 per vent．

It is hence shown that the healthiness of the native troops of the Bombay army，serving under thear own presidency， 19 nearly equal，according to Colonel Tulloch，to that of the health of the Britush troops at Malta，187，and supenor to that of the Brithsh troops at Gibraltar， 2 20，and the health of the troops serving in Canada， 200 per cent，and far supenor to the health of troops in the Ioman Islands， 283 per cent．It is shown，however，that where the mortality of the Bombay army is deduced from a lengthened period，it is very mach less than 197 per cent．The mortality of the whole Bombay army，whether serving in Sande or＂lsewhere，for three years，for every age，and for quinquennal periods of life，upon the accumulated totals of three years at each age，gives the mean maximum 325 per cent between the ages of forty sux and fifty，nclusive，the mean minimum 263 per cent being twenty－one and twenty－five，nclusive，and the mean mortality of all ages 2729 per cent Here we see that，inclusive of the effects of the chmate of Scinde and the cholera，the mean mortality is less than that of the royal troops in the Ionian Islands

With respect to the country and caste of the troops constituing the Bombay army，it uall be sufficient to gave the chref features

The Concan $1 s$ the low land at the foot of the Ghats，north and south of Bombay，and supphes a valuable class of Mahrattas as soldiers The Decean 1s the Mahratta conntry above the Ghets，and $I$ am surprised to find so few of the troops from it Hindostan furmshes six－eighths of the whole army，the men beng mostly Hindoos Of castes，the Hindoos are eleven to one of the Moosul－ mans，the low castes constitute about one eughth The Jews，although small in number，are valuable from their steadiness and ablity

| COUNTAY |  |  |  |  |  | CASTH |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 量 } \\ & \frac{A}{8} \end{aligned}$ | $\begin{aligned} & \text { 㟧 } \\ & \text { 品 } \\ & \stackrel{9}{6} \end{aligned}$ |  | 碳號 | 总 <br> 霛 | 㟺 | YEA |  | 最 | 爱恶 | 茍 | 穴空 |  |
| N 12，421 | $\begin{gathered} \mathrm{Ne}_{\mathrm{O}} \end{gathered}$ | $\begin{gathered} \mathrm{No} \\ 2 \mathrm{l} 3 \mathrm{~s} \end{gathered}$ |  | $\begin{aligned} & \text { No } \\ & 838 \end{aligned}$ | $\begin{gathered} \mathbf{N}_{4} \omega_{7} \end{gathered}$ | 1542. | No | N0 829 | 30 | ${ }^{\mathrm{No}} \mathbf{4 , 6 1 7}$ | N6\％ | No |
| 12010 | 3145 | 1 y 0 | 16，809 | 243 | 485 | 1818 | 810 | W24 | 2006 | 3173 | 4175 | 11 |
| 11049 | 0.4 | 2,027 | 17，368！ | 200 | 404 | 384 | 301 | 82 | 2933 | 2S0034 | $4{ }^{4} 36$ | 12 |

Absolete Mortahty of the Bombay Army at every Age, from Age Twonty-one to Fifty two melusive, for the Years 1842, 1843, and 1844

| AGES | 1845 |  | 1848 |  | 184 |  | Pratz |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Wean of Liviog | Deabl | Sear of Eiving | Dentbe | Mream of laving | Deatus | Wean of Lifring | Deatha |
| 21 | number | numbiner 199 | number C180 | $\begin{aligned} & \text { number. } \\ & 102 \end{aligned}$ | nanlet <br> 6040 | $\begin{gathered} \text { sumiler } \\ 149 \end{gathered}$ | ntimber <br> 18, 131 | $\begin{gathered} \text { Dunber } \\ \text { Gst } \end{gathered}$ |
| 9 | 2003 | da | 983 | 9 | 2059 | 45 | T164 | 495 |
| 24 | 2916 | 88 |  | 70 | 8040 | 60 | 0050 | 402 |
| 24 | 2157 | 74 | 2,196 | 79 | 9,856 | 7 | 2109 | 217 |
| 35 | 143 | 60 | 9240 | 70 | 9520 | 42 | 6550 | 178 |
| 96 | 310 | 45 | 1785 | 5 | 1765 | 24 | 4940 | 125 |
| 97 | 1142 | 99 | 1,334 | 20 | 1407 | 48 | 3783 | 05 |
| 28080 | 62 | 39 | \$15 | 98 | 897 | 8 | 2,45\% | 90 |
| 9\% | . 20 | 12 | 610 | 24 | 613 | 10 | 1778 | 52 |
| 0 | 418 | 10 | 460 | 12 | 494 | 17 | 1,278 | 49 |
| 33 | 979 | 9 | 389 | 8 | 366 | 8 | 1004 | 25 |
| 4 | 510 | 18 | 368 | 12 | 3 SH | 4 | 1254 | 49 |
| 38 | 63 | 91 | 407 | 11 | 492 | 10 | 1045 | 45 |
| 4 |  | 39 | 606 | 17 | $\ldots 47$ | 8 | 2109 | ${ }_{81}$ |
| 3 | 1104 | 40 | $9{ }^{93}$ | 18 | 125 | 25 | 2.958 | $8{ }^{80}$ |
| 3 | 111 | 34 | 924 | 28 | 953 | 20 | 8898 | 80 |
| ${ }_{3}^{6}$ | 1019 | 26 | 996 | 78 | 978 | 13 | \%986 | ${ }_{83} 8$ |
| 304 | $\mathrm{BH}_{4}$ | 35 | 679 | 14 | 038 | 93 | 2711 | 83 |
| 4 | \%109 | \$0 | 721 | 10 | 710 724 | 218 | 9725 | ${ }_{73}$ |
| 41 | $3+4$ | 11 | \$36 | 11 | 030 | 10 | 1 760 | 39 |
| 43 | ${ }^{\circ} 3$ | 14 | 415 | 12 | 466 | 14 | 1430 | 40 |
|  | 419 | 26 | 459 | 10 | 450 | 15 | 4683 | 51 |
| 41 | 5 | 20 | 419 | 7 | 472 | 11 | 1233 | 38 |
| 45 | \% 4 | 18 | 35 | 9 | 870 | 10 | 1069 | 37 |
| 45 | 283 | 11 | ${ }_{5}^{7 \% 5}$ | 7 | 483 | ${ }_{7}$ | 814 | 9.1 |
| 47 | 234 | 12 | $2 \times 5$ | 7 | 230 | 7 | 689 | 25 |
| 48 | 266 | 5 | 373 | 7 | 216 | 11 | 045 | 24 |
| 49 | 174 | 4 | 137 | 6 | 149 | 4 |  | 12 |
| 40 | 135 | ${ }^{8}$ | 110 | 4 | 100 | I | 854 | 13 |
| 51 | ${ }^{950}$ | ${ }_{6}^{4}$ | 80 | 2 | 84t | 9 | 4tow | 10 |
| 82 | 233 | 6 | 345 | 8 | 247 | 3 | 745 | 17 |
|  | 23.797 | 1070 | 起, 667 | 671 | 34,970 | 732 |  |  |



Mean Mortality per Cent of the Bounbay Army for 1842, 1843, and 1844

| $A G E$ | Witag | Deathin. | kentelsty | AGE | Thying | Wontha | Mortalicy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | otrias er | tumber | per centit |  | number | aumber | per celit |
| 21 | Intit | 5.46 | y07as | 37 | 21889 | 66 | 2206: |
| 11 | 4815 | 190 | 2937 | 38 | 2,710 | 63 | 30027 |
| 3 | 400 | 202 | 5-2920 | 37 | 2725 | 00 | 2 dil 66 |
| 41 | $\cdots 10 x$ | 417 | 26260 | 40 | 42 | 73 | 33610 |
| 1 | [34] | 178 | 97180 | 41 | 1700 | 59 | 28100 |
| f | 410 | 121 | 74164 | 42 | 1131 | 40 | 2 ds |
| $t$ | 4 Al | 95 | 95112 | 43 | 1431) | 54 | 335 |
| - | $\checkmark 5$ | 00 | $3 \mathrm{fC40}$ | 44 | 134 | 29 | 3044 |
| $\xrightarrow{*}$ | 15 | 63 | $2524 \%$ | 46 | 1049 | 34 | 3 4619 |
| 14 | 1375 | 48 | 5 deast | 411 | H44 | 24 | 98.435 |
| 31 | 1 u.14 | 8 | 2 NS5 | 47 | 68) | 24 | 4750 |
| 35 | 135 | 20 | 73082 | * | $0 \cdot 15$ | 2 | 35038 |
| 3 | 1 (4) | 12 | 334 | 49 | 481 | 12 | - 4 4-48 |
| 31 | 2102 | 07 | 7317 | 50 | $3 \times 1$ | 13 | 36723 |
| 13 | 2 z 58 | 89 | \$ 419 | 51 | 2 ed | 10 | 37579 |
| 36 | 2542 | 80 | 2 y 239 | 68 | 743 | 17 | 22810 |
|  | ¢ 486 | 20.6 |  |  | 21041 | 618 |  |

Mortality of Regments of Bombay Army serving in Scinde, at each Age, with Average for cvery Fifth Year


Montality of Regments of Bombay Army not in Scinde at all during the Years 1849, 1843, and 1844, for each Age, and with Averages for every Fifth Year


Mon razity of the whole Bombay Arny, whether Serring in Sciade or elsewhere, at every Age, and with Averages for every Fifth I ear

| $\boldsymbol{A}$ G ${ }^{\text {P }}$ | POPUIATION | ATEACH $\triangle$ CE |  | INPERIODS |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Mafalit) | Toral. | Mo taluy |
|  | mumber | number | per ctat | mumber | per acht |
| 21 | 18131 | $5 \times 0$ | 2085 |  |  |
| 22 | 8761 | 190 | 2-2351 | 1353 | 2063 |
| 88 | 9050 | 209 | 32320 |  |  |
| 34 | 8.100 | 2178 | 6rat |  |  |
| 25 | - 70800 |  | - 180 |  |  |
| 26 | 4946 | 121 | 2484 | 400 | 2-631 |
| 27 | 373 | 93 | $2 \mathrm{B117}$ |  |  |
| 28 | 2455 | 50 | 3 gruy |  |  |
| 90 | 1778 | 52 | cJ 80 | $=$ |  |
| 30 | 13白 16340 | 48 | 31533 |  |  |
| 31 | 1004 | 25 | 29683 | 242 | 1 673 |
| 32 | 1259 | 20 |  |  |  |
| 33 | 1613 | 12 | 25 atis |  |  |
| 34 | 2100 | * 8 | 25147 |  |  |
| 35 | 2159 |  | $30086$ |  |  |
| 89 | 2509 | 80 |  | 389 | 9790 |
| 37 | 2 css | 86 | $92091$ |  |  |
| 33 | 2710 | 83 | 30087 |  |  |
| 39 | 2,223 | 18 | 20066 |  |  |
| 40 | 2,179 18988 | 33 | 33610 |  |  |
| 41 | 1780 | 39 | 22559 | 203 | span |
| 42 | 1431 | 40 | 27933 |  |  |
| 43 | 1489 | \$1 | 35609 |  |  |
| 44 | 1234 | 3 | 30704 |  |  |
| 45 | 10.59 0.080 | 37 | 34618 |  |  |
| $4{ }^{r}$ | Red | 4 | 28.135 | 98 | 3232 |
| 47 | 689 | 70 | 3730 |  |  |
| $4{ }_{6}$ | 645 | 73 | 25859 |  |  |
| 49 | 481 | 12 | $\$ 4 \% 13$ 8*4723 |  |  |
| 50 | 354 |  |  |  |  |
|  | $\begin{aligned} & 964 \\ & 745 \end{aligned}$ | 1017 | 37870 <br> (2) | 27 | 2678 |
| 52 |  |  |  |  |  |
|  | -- 1000 |  |  |  |  |
| Total | 97027 |  |  | $2 \mathrm{c} / 3$ | 2723 |

The maxumum strength (5024) of European troops in Bengal was in 1844 , the minmum strength in 1827 being 3793 men The maxamum admission into hospital was $11,202 \mathrm{~m} 1841$, out of a strength of 4751 , so that each soldaer, on an average, was more than twice in hospital during the year, and some three times But I must disclam any confidence in the admissions into.hospitals as types of gencral sickness, for one soldier goes twelve tumes into hospital durng the year, and in the total of admisstons counts as twelve men, white another soldiet remams in the hospital the whole twelve months, and counts only is one admassion No statistical law, therefore, can be legitimately deduced from the mere totals of admiseions into hospital The mimmum admissions into hospital occurred in 1827, being only 927 out of a strength of 3793 , so that not every fourth man went into hospital, although the mortality that year was great, amounting to $8 \frac{1}{2}$ per cent, indeed, more than one-thurd of those who went into hospital died, and the invaliding in that year was $6 \frac{1}{2}$ per cent The sum of the admissions in twenty years was 158,160 , on a strength of 88,380 The maximum of deaths from ordmary causes occurred in 1825, being 539 from a strength of 4512, producing the maximum mortality, inclusive of cholera, of the twenty years, namely, $12 \frac{1}{2}$ per cent, the invaliding of that year, however, being only 37 per cent The minmum of deaths from ordmary canses was 450 per cent in 1829, from a strength of 4466 The maximum of deaths from cholera occurred in 1843, being 107 from a strength of 5016 , or 213 per cent of strength The absolute minmum number of deaths from cholera was in 1826, being twenty-three, or 053 per cent, but the montmum pea centage of deaths upon strength was in 1830, when, although forty two died from cholera, the per centage upon strength was only 024 Of the invaliding, I will speak not of the absolute numbers, but of the per centage only

The masimum per centage of ordmary deaths occurred in 1825, when it amounted to 1191 per cent, cholera adding only a half per cent to it, the mintmum was in 1829, amounting to 45 per cent The maximum from cholera was in 1843 , amounting to 213 per cent, and the minmum in 1830 , being 024 per cent The maxmum of deaths from all causcs was $12 \frac{1}{3}$ per cent in 1820, and the mumum 516 m 1829 The greatest invalding was 67 per cent in 1826, and the least 17 only m 1835 The mean of the ordmary deaths to the strength, for twenty years, was 623 per cent, from cholera onlv 115 per cent, from all causes 738 per cent, and the mean annual mvalding 36 per cent, so that, including mortality and nuvaldung, a regment would be ienewed in less than ten years

The native troops of the Bengal army having served, for the most part in the same terntones with the Europeans noticed above, it will be ught, for the sake of comparison, to take them in succession The maximum strength of the army Whs in 1825, amounting to 152,843 men; the mmmum strength was $m 1832$,

When the army was reduced to 78,846 men The maximum admissions into hospital occarred in 1842, being 98,936 men out of a strength of 113,020 , men, and it is remarked that the three greatest admissions are in the consecutive years 1842, 1843, and 1844, and were the detals avalable at the present moment, I strongly believe that this apparently very unusual sichly state of the native army would be found to have orginated in Semde having been occupred by a portion of the Bengal army jountly wath the Bombay troops durng those years. Indeed, there is a sudden advance in the numbers who entered the hospitals from 42,632 in 1839, at the period of our entenng Sainde, to $76,917 \mathrm{~m} 1840$, when we were vitually masters of the province. The maxima of admussions both of Europeans and natives, are rearly comeident in time, but in no sungle year in the worst seasons, has it oceurred to the natuve army to average an admission of each native soldier into hospital durng the year The minimum of admissions was $30,903 \mathrm{in} \mathrm{1827}$, out of a strength of 130,313 , so that less than every fourth man entered the hospital during the year Here then is an absolute concidence in time with the European mimmum admissions, and it would be well could ne trace the pecuhar atmospherical causes of this remarkable absence of disease; but of thas I fear there is not any hope The sum of the admissions for twenty years was $1,100,735$ from a strength of $2,046,425$, so that the average admission was for each soldier one admission in two years

The maximum number of deaths from ordmary causes took place in 1825, being 2651 , but thas number does not indicate the maxumum per centage of mortality The mimmum, 950, was in 1837, but does not indacate tite manmum per centage of mortality The maximum deaths from cholera was 361 in 1843, and the mimmum 136 in 1840 The total deaths from cholera in twenty years was only 4488 The greatest invaliding took place in 1829, being 5070, and the smallest, 594 , in 1835, the maximum per centage of ordmary deaths 238 nm 1834, and the mimmum 104 in 1843, and yet this, excepting 1833, nos the maximum cholera year, 031 The minmuin of cholera was in 1831, amounting to only 002 per cent of strength The average mortahty from ordinary causes for twenty years, was 157 , and from cholera only 022 , and from both causes 179 percent The invaliding was singularly small, the mavimum being 47 per cent in 1829, the mimum 06 in 1825-G and 1827, and the mean for twenty years 15 per cent

The following are the castes in the Bengal natuve infantry, composed of seventv-four regiments -

| Chrixtamir | Mshmoeduns | Arainmire | Rojpoote | Illindoses of Inferior Ductiptiop | Gaamo Tetal |
| :---: | :---: | :---: | :---: | :---: | :---: |
| number 1016 | number $12411$ | Durober $24849$ | $\begin{aligned} & \text { number } \\ & 27, \text { vig } \end{aligned}$ | $\begin{array}{r} \text { number } \\ 13,920 \\ \hline \end{array}$ | thiturex 80 249 |

So that the Hindoos, almost umversally non-consumers of ammal food, con-
stitute aloore eighty three per cent of the whole infantry The castes of the Bengal natire cavalry are not specified in the returns

The Madras army follows nest in order, but scatcely any part of it sen ied in the same 'ucalitues with the Bengal troops The maxumum strength was 6083 m 1842, and the mmmum 4350 in 1825 The manimum admission into hospital was 8134 out of a strength of 448 I , so that each soldiel, on the average, was receired about trice into the hospital durng the year The minmum admission was 5234 , in 1832, from a strength of 5019 , the average being rather mote than an admission for each soldier during the year The maximum of deaths 455, as with the Bengal Europeans, took place in 1825, and the mmmum was ninetseven, in 1838, in wheh the deaths from all causes were only 212 per cent, the European troops for that year being nearly as healthy as if in their native land The maximum of deaths by cholean was sixty, in the year 1825, and the mommum only one, in the years 183.5 and 1830 The greatest invaliding was 159, in 1826, and the least thirty four, in 1828 The maximum per centage of deaths fiom ordinaly causes was 1046 , in 1825, and the minimum 197 , in the years 1838 and 1844 The maxmum per centage from cholera was 138 , in 1825, and the minmum 002 , in the gears 1835 and 1836 The maxmum per centage of deaths, melusive of cholera, was 1184 , in 1825, and the mmmum 212, in the years 1835 and 1838 The maximum mvaliding was 347 in 1826 , probably consequent upon the sickness of the pleceding year, and the minmum invaliding was only 065 in 1828 The sum of the admissions into hospital for twenty years was $135, \bar{j} 20$, from a strength of 101,210 , showing a considerably greater degree of healthmess, as far as admssions are a test, than in the European troops of Bengal The total number of ordinary deaths was 3460 , from cholera 432 , inta liding 2101 The mean annual per centage mortality of ondinary deaths fur thenty years was 3419 , from cholera only 0427 , mstead of 115 , as th the Bengal Curopeans, and the mean annual per centage of deaths from all causes was 385 , instead of 738 , as in Bengal The mean movaling was 207 per cent The mortality and invaliding combined are less than sux per cent per annum, so that i regument would only be renewed in about seventeen jears mstend of ten, as in Bengal The remarkable discrepancy between the bealthness of the European troops in the Madras territontes and those of Bengal needs explanation Whether it originates in phy sical or moral causes, whether in the atmospliere or the habits and treatment of the men, should be questions for grave miestugation

The maximum strength of the native army of Madras, was 71,488 in 1826, and the mmmum strength $48,571 \mathrm{~m} 1837$

The mortality from all causes was 209 , being greater than in Bengal The malidng was 196 per cent per annum

Castes of the Madras Troops


The maximum strength of the European troops of the Bombay army u's 5022 in 1843, and the minmum 1727 in 1826 The maximum admissions into hospital was 0266 from a strength of 3667 , but in 1837 the admissions were three times the strength The minmum admissions were 1284 in 1841, from a strength of 3479 , so that lattle more than one therd of the men entered the sich lists. The greatest absolute number of deaths from ordinary causes was 270 m 1843, giving a per centage of 537 , which, however, was little more than halt the per centage in 1826 , when only 179 died The minumum of deaths was forty six m 1832 , giving also the minumom per centnge 189 , during twenty years The largest number of deaths from cholera was ninety in 1842, giving aiso the greatest per centage of loss from that fearful disease, namely, 191 per cent In the year 1835 there pas not a sugle death from cholera, but this was the only exception in twenty years, although there were eleven years in which the annual loss from cholera only varied from two to exght The maximum per centage of ordmary deaths was 1036 m 1826, and the least 189 per cent in 1832 The grentest and least loss from cholera have been already stated The maxamum loss, cholera inclusive, was 1152 per cent in 1826, and the mummum 243 per cen ${ }^{+}$in the years 1830 and 1832 , the greatest invaligng was 534 in 1831, and the least 009 in 1834 The sum of the strength for twenty years was 50,987 , the sum of admission into hospital 88,720 The total deaths from ordinary ciuses 2301, and from cholera 288 The mean per centage deaths from ordmary causes for twenty years was 451 , from cholera 056 , and from all causes 507 per cent, the mean mvaliding 3 I6 per cent The mortality and $n n_{\mathrm{a}} \mathrm{lid} \mathrm{m}_{\mathrm{g}}$ combined are more than eight per cent, so that a regiment would be renewed in about twelve yearComparing the mortality of the European troops of the three presidencies, we find that Bengal loses the greatest number from ordinary causes, $6 \mathbf{2 3}$, and from cholera 115 per cent,-total, 788 per cent, Madras loses the lenst fiom ordinary causes, 342 per cent, and from cholera $043,-$ total, 385 per cent, about the half of that of Bengal The loss at Bombay, 507 per cent, is somewhat more than at Madras The mean loss of the European troops of all the presidencies

19 468 per cent from ordmary causes, 072 per cent from cholera, and from all causes 541 per cent, the mean invahding 288 per cent

The maximum streigth of the native army of Bombay was 49,873 in 1844 , the minimum, $25,782 \mathrm{in} 1833$ The maximum admissions into hospital were $49,418 \mathrm{~m} 2844$, from a strength of 49,873 , so that on the average nearly every soldier pussed through the hospital, a most unusual curcumstance for the native zrmy, and this charncterises the returns for 1839, the year the Bombay troops occupted Scinde The mumum of admissions was 20,652 in 1833, from a strength of 25,782 The greatest absolute number of deaths, exclusive of the mortality of the troops in Scinde, which is not given for the years 1842, 1843, and 1844 , from ordmary causes was 595 in 1844, or 119 per cent, but this does not gare the greatest per centage of deaths, which, with 536 absolute deaths in 1839, gave a per centage of 187 , the minmum of deaths was 111 in 1843, not including the deaths in Sande The greatest number of deaths from cholera was 237 in 1825 , and the next year had the next grentest number, 183 Indeed, these two years appear to have been pecularly fatal througbout Inda for Europeans and qutives, both in ordnary diseases and cholera The maximum invaliding was 2507 in 1830 , giving the maximum per centage 808 for twenty years, the smallest number was 448 in the next year The maximum per centage of deaths from ordinary causes was 187 in 1839 , and least 035 per cent The masmum from cholera was, at the worst, little more than a half per cent, 058 in 1825 , and the least was 0007 in 1836 , there being only two deaths in the whole 7 mmy of $28,4 \hat{8} 8$ men The maximum per centage of deaths, cholera melusive, has 238 in 1839 , but, with this exception, the two next greatest maxma were in the years 1825 and 1826 The minmum was 069 per cent in 1843 for a part of the army The sum of the strength was 638978 , the sum of admissions into hospital 586,047 The total number of deaths from ordinary causes 6455 , from cholera 1796 , the invaiding 21,155 The mean per centage of deaths from ordinary causes, for twenty years, was 101 per cent, from cholera 028 , and deaths, inclusive of cholera, 129 per cent, menn mvaliding 332 per cent

Companing the mortality of the native troops of the diffirent armes, we find that those of Bombay not serping in Scinde, suffer lenst from oudinary causes, 101 per cent, while those of Bengal and Madras lose respectively 157 and 151 pet cent. With respect to cholera, Bengal suffers least with the native troops, 022 , though most with the European, 115 per cent Bombiy loses only 028 per cent from cholera, whle Madras loses more than double, 058 In the mortalty from ail causes, melusive of cholera, Bombay suffers least, 129 per cent, Madras most, 209 per cent, and Bengal is intermediate, 179 per cent The mpaliding is greatest in, Bombay 3 31, and least in Bengal, 150 per cent

The mean mortality for twenty years, for all the native troops of India, from ordmary causes, is 146 per cent, from cholera 034 , and cholers melusive, it is 180 per went. The mean invaliding for ald the native troops of Inda is 193 per cent

Euroreans - Bengal Prendency

| YRARS | Aversgo Stranget | Adulanions 2nto Hospltal durug the 1 bar | Deaths (rom ordimary Gaticen | Deaths by Cbolerz | $\mathrm{In}_{\text {ralived }}$ | Batio per ceat of Ordibary Deathy to Streabth | Ralo per cent of <br> Dathas by Chalera <br> to Streagth | Ratio per ent of Deaths geacrally to Strebpita | Ratin per cent of <br> Number <br> Invatuded to burength |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | numbar | naxaber | nunber | number | aumber | Perceut | pror cent | per orat | per cent |
| 1895 | 4815 | ${ }^{9} 38$ | 835 | 25 | 107 | 1194 | 0 f | 1250 | 37 |
| 1820 | 4357 | 6,\%61 | 265 | 23 | 295 | 6.08 | 0 ss | 6 60 | 67 |
| 1827 | $379 \%$ | 027 | 291 | 34 | 248 | 7 EkF | 090 | 8564 | 65 |
| 1523 | 4177 | 700 | 2 za | 16 | 217 | 3.11 | $00^{09}$ | 6.08 | 52 |
| 188 | 4469 | 0 OLz | 201 | 29 | 305 | 480 | O6號 | 516 | $4{ }^{15}$ |
| 1830 | 4550 | 8.990 | 239 | de | 908 | 0.76 | 924 | 619 | 44 |
| 187 | 4745 | 71064 | 274 | 38 | 154 | 5759 | 000 | 6359 | 3.4 |
| 198\% | 438 | 7008 | 223 | 4 | 108 | 8.25 | 108 | 6.93 | 24 |
| 1837 | 4.290 | 6979 | 772 | 31 | 85 | 024 | 1301 | 769 | $4{ }^{48}$ |
| 1534 | 3,406 | 8,739 | 285 | 65 | 76 | 738 | 1051 | 914 | 2.0 |
| 18.35 | 1084 | 7583 | 970 | 4 | 70 | 6.51 | 187 | 778 | 1.7 |
| 1436 | 4. 351 | 7584 | 210 | 4 | 83 | 103 | 101 | 504 | 20 |
| 2937 | 178 | 6,171 | 216 | 39 | 128 | 4093 | 000 | 8.30 | 30 |
| 1898 | 4308 | B, 314 | 281 | 76 | 143 | C.53 | ${ }^{1} 747$ | $\mathrm{E}^{27}$ | 4 |
| 18.79 | 4008 | 4149 | 234 | cs | 115 | 619 | 1581 | \% 78 | 47 |
| 1810 | 4754 | 976 | 286 | 51 | 938 | 5012 | 1074 | 7 ng 4 | 54 |
| 181 | 4781 | 11203 | sif | 81 | 220 | 604 | 1 188 | 733 | 4.6 |
| 1648 | 477 | 10.43 | 2\%8 | 47 | 147 | ${ }^{6} 231$ | 4994 | 7 m | 39 |
| 1815 | 5016 | ©390 | 298 | 107 | 166 | 594 | 213 | 807 | 3.4 |
| 18.4 | 5084 | $85 \% 9$ | 4iyd | 87 | 138 | 516 | 179 | 743 | 3.0 |
| Toral | 38,390 | 1888160 | 5510 | 1021 | 3297 | 523 | 15 | 738 | 36 |

Natives - Bengal

| 1 BARS | Average Streoget | Adoulestant into lios pitat durkag lle Year | Dealbs fram Or dinary Caunce | Beathn by Cholersh | $\underset{\text { ralidead }}{\text { Io }}$ | Ralo per cent of Ordinary Desthe to Strongth | Rela pert cent of Deathe by Cholerato to Strenglh | Ratio pet cent of D,athn sebect ly to Strength | Retwo per cent of Nomper Invilued to Streagth |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | numbior | nutaber | aumber | numbrar | Dutaber | per enct. | per cedt | per ount | per cent |
| 1825 | 152,453 | 33194 | 2 mst | 210 | 938 | 175 | 0.14 | 187 | 06 |
| 38.25 | 1493097 | 68750 | 145 | 189 | 054 | 118 | 412 | 1.30 | 06 |
| 183) | 13315 | 30,103 | 164 | 137 | 847 | 126 | 010 | 136 | 06 |
| 4013 | 110797 | $8{ }^{8} 423$ | 1712 | 150 | 2, 3 5 | 1454 | 6168 | 104 | 18 |
| 1813 | 100,393 | 44345 | 1632 | 186 | 8,079 | 163 | 614 | 167 | 47 |
| 1830 | 93,620 | 1313 | 186 | 236 | 3145 | 1733 | 625 | 2313 | 3.5 |
| 1831 | 88.746 | 89.53 | 1 *5 | 181 | 1413 | 1 n 3 t | -0, ${ }^{2}$ | 2 s | 16 |
| 183) | 78.846 | 45020 | 1315 | 238 | 1393 | 1665 | 0 09\% | 140 | 16 |
| 1633 | 70703 | 311 ka | 1635 | 20 | 1049 | 30\% | 0,301 | 334 | 13 |
| 1834 | 78038 | 0,3,808 | 1 6*7 | 243 | 2,048 | $2{ }^{2}$ | 0304 | -6.54 | 25 |
| 1835 | 70012 | ail 394 | 174 | 217 | 69 | 177 | 0275 | 3815 | 07 |
| 1838 | 7593\% | 31188 | 1430 | 225 | 929 | J76 |  | 8 ot + | 1 I |
| 1887 | 8 c 844 | 3 1\%0 | 830 | 165 | 945 | 1178 | 023. | 1401 | 11 |
| 1838 | 盛 817 | 4 4, 354 | 1682 | 185 | 11. | 2 OH | 0.31 | 225 | 11 |
| 1833 | 04303 | 47632 | $1 \pm 93$ | 249 | 802 | 3006 | 0 - | 2. ${ }^{\text {a }}$ | 0 s |
| 1847 | 1085 | $7 \mathrm{~F}_{3} 017$ | 1133 | 136 | 1338 | 116 | ${ }^{012}$ | 1204 | 15 |
| 1841 | 101789 | 76,630 | 1411 | 281 | 3109 | 134 | 02 | 1 \%,01 | 11 |
| 18.17 | 120020 | $9{ }^{4} 9812$ | 1897 | \%t9 | 1455 | 1604 | 424 | 1 NH | $1:$ |
| 1813 | $1{ }^{18788}$ | 03 338 | 1605 | 301 | 3484 |  | 0314 | 171 | 1 |
| 18.4 | 121 ond | 91.751 | 1413 | 329 | 1455 | 117 | 0.37 | 14 | \% |
| Totat | $2 \mathrm{N4645}$ | 1100735 | 32170 | 448 | 3045 | 1.47 | 628 | 170 | 1.4 |

Euroreang－Madras Presidency

| 1 Eats | At rige <br> stran at |  | Deatha $f \mathrm{II}$ Or lumary C．4 4 end | $\begin{aligned} & \text { Dcathe } \\ & \text { 1y } \\ & \text { cholera } \end{aligned}$ | $\begin{gathered} \text { 1nind } \\ \text { Fillided } \end{gathered}$ | Ratio por ceat of Ordipary D．this 1o St：Jigh | IRatin pur 4 of IJeuthe by Collat n Srrengeth | 12alto yer ceat ol Deatios <br> F arillt <br> Po strchath | 内路apr t at $\mathrm{M} \boldsymbol{\pi} \mathrm{CH}$ l）HICl N so stree gth |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 183 | is mbur | bunber <br> 7 4． 4 | Wand 1 \％ | namber <br> 10 | －tanix） 10s | $\begin{aligned} & \text { Per gent } \\ & 10459 \end{aligned}$ | per and th 1379 | Per 1 ett <br> 11830 | per octit |
| 183 | 4 If | 7 105 | 421 | 11 | 100 | 7 059 | 0211 | 7 c 19 | $4+3$ |
| If | 4.159 | ¢ 1075 | 237 | 6 | 97 | 5158 | 0120 | $5<0$ | 1 － 47 |
| 120 | 52 taj | 7141 | 229 | 13 | 8.4 | 1398 | $0 \times 45$ | 463 | 0 E．51 |
| 1834 |  | 7181 | 158 | 5 | 114 | 3035 | 0059 | 3005 | 9 474 |
| 13319 | （20） | （30） | 140 | 34 | 124 | 2 tay | 0 G 07 | 3966 | 2753 |
| 103t | 53.3 | 5 ata | 198 | 41 | 120 | 3718 | 0769 | 4488 | 213 |
| 183.3 | 5 P 19 | 6， 3 31 | 141 | 3） | 76 | 2869 | 0171 | 3536 | 1314 |
| $1 \times 37$ | 4739 | 72188 | 167 | 48 | 61 | 3598 | 1012 | 4576 | 1709 |
| 1834 | $44^{4}$ | 8134 | 158 | 2 | B5 | 9525 | 0 m 41 | 3870 | 1 14 |
| 185 | 4749 | 6991 | 1010 | 1 | 54 | 7105 | 0021 | 2126 | 1708 |
| 189 | 4374 | 5，77 | 109 | 1 | 95 | 2361 | 0021 | 4383 | $20 \times 6$ |
| 183 | d 6 ¢5 | 5360 | 148 | 19 | 172 | 3186 | 0409 | 3545 | 2 COH |
| J×38 | 4901 | 5371 | 97 | 7 | 69 | 1970 | 0143 | 9127 | 1407 |
| 143． | 4 403 | 4，2，72 | $10 \%$ | 9\％ | 120 | 2172 | 0578 | 27.17 | 9683 |
| 1840 | 6.045 | 750 | 139 | 46 | 134 | 275 | 0518 | 3270 | 2 6nt |
| 184： | 5785 | 0 COH | 145 | 5 | 132 | 2500 | 0095 | 95015 | 2984 |
| 11922 | 6， 043 | 6099 | 169 | 41 | 130 | 2630 | 0 m | 3304 | 2 117 |
| 1545 | 50137 | 608 | 127 | 13 | 121 | 2146 | 0219 | 2300 | 20.44 |
| $18+1$ | \＄，883 | 5744 | 116 | 37 | 90 | 1071 | 0 日趧 | 2500 | 1845 |
| Tartas | f（9）4tal | 1337 ＊ | 480 | 413 | 2101 | 3419 | 0127 | 8 84t | 2070 |

Native Troors－Madras

| 1 Ends | $\begin{aligned} & \text { q rage } \\ & \text { sucogrli } \end{aligned}$ | Admianons fariotitos pstal durtif： the Year | Denthe fisum 115 harmy Causers | Denthn by <br> Clutata | $\ln _{\text {valded }}$ | Watle par c nt of （Draliatry Jeaths to Strengtla | Rathor per $c$ ot af Denthit by Cholt． 9 to btrength | Rata par cent of Dinhw ter ily to St enged | Itation pas ceat of $\mathrm{N}_{1} \mathrm{~mL} \mathrm{H}_{4}$ In ablity to vtre git |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ncansl | L 12 | 2日atuer | Husa bor | mun bor | ［icter ${ }^{\text {c }}$ | Fat c nt | $p r e x n t$ | per cent |
| 10t | 01947 | 7323 | 1807 | 7 s | $2 \times 83$ | 3007 | 1878 | 430 | 83078 |
| 1） 5 | 71448 | 710.17 | 1803 | 814 | 20.04 | 2319 | 0 111 | 2330 | 2467 |
| $1 \quad T$ | 6． 053 | 53043 | 109 | 243 | 68 | 164 | 0 功年 | 1374 | 0458 |
| 3，28 | G4，${ }^{5} \%$ | 40 3－4 | 61 | 3cy | 1199 | 1181 | 0571 | 172 | 4317 |
| 183 | 4，Ris3 | 4\％cisy | 625 | 213 | 970 | 10.49 | （1）305 | 14 St | 1 r 0 |
| 183\％ | 54.1 | 30 is | 543 | 126 | 12） | 1 14\％ | （1） 422 | 1250 | 21.37 |
| 16．31 | 3041 | 年1540 | 540 | 21 | 1 ln 1 | 1071 | 0 \％37 | 1504 | 206 |
| 151 | （8） 40 | 37.451 | 636 | 335 | dius | ） 0 and | 089 | 3617 | $11+2$ |
| 12 13 | 4 4， 16 | B\％ 15 | 775 | 59 | 62． | 1501 | J If | 4727 | 147 |
| 1NS | 4585 | 1504 | 9 CO | \＄ 5 | 3.4 | 19 | 1） 117 | 206 | 0675 |
| Is | $44_{4} 5$ | 41002 | 721 | 1 | 830 | 1419 | 0 ¢61 | 113 | 1703 |
| is | $\pm \sqrt{6}$ | 13015 | 1206 | 27 | 34d | 21.3 | 0004 | 2380 | 001 |
| 1837 | $4{ }^{4} 1$ | 36ta | ［．18 | 352 | 1220 | 1437 | 0742 | 21.0 | 51） |
| 163\％ |  | 37 t＿id | 710 | 50 | 1127 | 1151 | 105 | 2.7 | 4.16 |
| 1651 | 5176 | 48711 | fish | 949 | 13 | 1265 | 0140 | 1748 | 231 |
| 1340 | （0）70， | 4.451 | 847 | 131 | 1044 | 1131 | 0200 | 1 3\％2 | $\cdots 3$ |
| 1841 | 653515 | 48 217 | 813 | 211 | 1112 | 1270 | （1379 | 1 Lris | 1747 |
| 13.1 | 6351 | 5.3174 | 1110 | F11 | 1341 | 19012 | 16 | 9 tis | 274 |
| 1843 | 04 13， | 404 | 134 | 163 | 1536 | 1 21 | 1385 | $2 \mathrm{C7}$ | 230 |
| 183 1 | 6.482 | 46599 | 1200 | 310 | 0.4 | 110 | $0 \times 04$ | 4.61 | 1184 |
| T $\mathrm{T}+\mathrm{L}$ | 11623 | $44^{15} 5$ |  | 60\％ 0 | 3470 | 1512 | （1） F P | 2053 | 1 FC3 |

Reptun to an Order of the House of Commons datud 16 th of June，1845，showng the Sckness，Mortahty，and Invaldusg，in the Honourable Last Inda Company＇s Trn pps （Natives and Europeans），wa the Bumbay Presidency，from the Year 1825 to 1844， 4 clusive－Bombay， 17 th of July， 1846

## Europeang－Bombay

|  | Averare breag is | Adin 1 thatr drto Horpi tale dar bus tho 1 ear | $\begin{array}{\|c\|} \text { Deathes } \\ \text { fons } \\ \text { invilas } \\ \text { Cauker } \end{array}$ | Desthal trom cholera | Itratids | Rust a per ＊tof Or dwery Deatia ta stretigib | Hatio per crat of Cl 1 ia Beatis to Strengith | Ratio pur cent of Dentha ge artally to Strength | Matro yec cont or Vuusber in alscied |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1825 | purmber 192 xd |  | vumber 8＊ | number | whinler | Pir cetas | per chant | pe wist | yer cmat． |
| 18\％ | 1727 | 4 4，134 | 176 | 20 | S | 10364 | 1158 | $1{ }^{4} \mathrm{C}$ | $3 \cdot 164$ |
| 1527 | T， | 175 | bs ${ }^{\text {c }}$ |  | 16 | 01 | 35 | －${ }_{1.5} .5$ | 4802 |
| $1 \mathrm{~S}_{28} 28$ | $42 \times 17$ | 6178 | 147 | 13 | 315 | 6580 | ＋ 4 | $71 \times 4$ | 5 ys 2 |
| 150 | 2210 | $\times 15$ | 108 | 1 | 118 |  | 044 | 4 NJ | 40.4 |
| 12.36 | 4076 | 4201 | 6 | 2 | ＊st | 4 tos | $0 \cdot 7$ | L，At | 3299 |
| 1831 | 2243 | 4 2887 | d | 4 | 120 | 7 T 4 | 1 B | 338 | ${ }^{8} 139$ |
|  | 4，424 | 6， 151 | 44 | 18 | 35 | 3） 24 | $53 *$ | $2 \cdot 132$ | 1413 |
| $1 \times 33$ | 2285 | 6115 | $n$ | \＄ | 103 | $297 \%$ | 310 | 37t | 4605 |
| 1534 | 2，615 | 4719 | 74 | ＊ | 2 | 3110 | a4s | 3333 | 0007 |
| 1635 | 1900 | 4716 | 08 | 0 | 82 | 4 f 49 | 0 | 4648 | 4190 |
| 1436 | 2900 | A $\mathrm{BQ1}$ | 65 | 1 | 19 | 3043 | 033 | 415 | $0{ }^{696}$ |
| 1837 | 1，861 | 5090 | 104 | 12 | 01 | 5426 | 6.4 | $4_{605} 0$ | 4 18＊ |
| $3 \times 27$ | 23190 | 4 403 | 87 | 7 | 40 | $3 \times 5$ | 3045 | 418 | 115 |
| 1849 | 2048 | 3157 | 134 | 01 | 61 | cose | 1517 | 8078 | $2 \mathrm{~m} \mathrm{mb}_{6}$ |
| $1{ }^{1} 10$ | ${ }^{2} 374$ | 8606 | 129 | 9 | 0 | 3319 | 1010 | G 108 | 4016 |
| LR41 | 3，479 | 1464 | 92 | 1 | 77 | 2 cis | 114 | 2730 | 4213 |
| 15 dz | 400 | 3039 | $1{ }^{10}$ | 90 | 121 | 3504 | 1012 | 5 4id | 251 |
| Jind 3 | 3.183 | 400 O | 270 | $\pm$ | 401 | 0730 | 1059 | $\cdots 315$ | 4009 |
| 18．14 | 8167 | $00^{266}$ | J09 | 48 | 60 | 7344 | － 509 | fess | 2581 |
| Tofac | 50987 | $8{ }^{6} 720$ | ＊，301 | 285 | 1611 | $4{ }^{43}$ | 585 | 5078 | 3160 |
| Botr bas | 50．914 | 98780 | 3301 | 288 | 1611 | 4513 | 3 L | 505 | $314 *$ |
| H nipat | 88300 | 139100 | 5s， 10 | 11371 | 3 yc 2 | C 13 | 115 | 736 | 50 |
| Nuvides | 136250 | 135 320 | 9480 | 432 | 2102 | 3419 | 0 －127 | 0810 | 4076 |
|  | 190，377 | 31080 | 11972 | 1741 | 0339 | 4 的5 | 724 | 54 （ 6 | 28st |

Natives－Bombay

| 4 4 4 3 | Aversia |  | ```\Ma\|lin:``` | Deathas frem Cholers： | 7avalics | Rollas rev west of 0 dinary Deatha to Stresgls | Ratio per cent of Drather hy Chotera Ho Stricasth | Katio par ctal of De thes g cerally to strengti | Rutio af Nvmber In Fainded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | numbet | 14 ndx | nutsbet | number | Eutuluer | mumber | nuwhant | number | $x$ itsht |
| 1825 | 40717 | Foat | dus | 337 | P44 | 3191 | E | 173 | 1385 |
| 12＋25 | 3956 | 37151 | 312 | 183 | 749 | 1338 | 4674 | 1 sra | 1877 |
| $1+27$ | 3 pent | 30158 | 410 | 33 | 864 | 1 16 | 0 c | 1302 | 20\％ |
| Itstis | 370．5 | 28 | 35 | A 4 | 1463 | 战22 | 225 | 10.8 | 3.80 |
| 1539 | 3320 | 32617 | 315 | 21 | 165 | 3149 | $00 \%$ | 1713 | 5 und |
| 1880 | 31004 | \％ 357 | $3 \% 9$ | It\％ | 2.507 | 1093 | 近 | 13.4 |  |
| 171 | 31178 | 2 ，30n | 197 | 46 | 444 | 038 | 147 | 1 | 1130 |
| 1 4.212 | 28 tax | 23251 | 175 | 123 |  | Gilu | 210 | 34 | S 78 |
| 1133 | 25788 | 20.85 | 312 | 115 | 714 | 551 | 449 | $1)^{106}$ | 27 c |
| 18 㑣 | 21.00 | 24250 | 125 | 7t | 17 nl | 47 | 245 | $5{ }^{204}$ | 5 极 |
| 1867 | 24504 | 281 | 216 | 28 | 值詨 | $1{ }^{131}$ | 097 | 1120 | $5 \cdot 504$ |
| 130 | 2＊1 4 | 41.243 | 975 | t | 1 150 | 902 | $100^{\circ}$ | ${ }^{4} 1$ | 4848 |
| ） 817 |  | 11 kg | 新6 | 113 | 740 | Sh0 | 109 | 100 | 970 |
| 1 R．18 | A） 6 tas | 305 | 26 | 17 | 51 | 1085 | 477 | 188 | 3702 |
| 1 161．1 |  | 30144 | 36 | 148 | 697 | 1 sgn | 5 St | 1585 | \％ 399 |
| 1840 | 10， 681 | $24+6$ | 74 | 131 | 898 | 12 L | 5145 | 111 | 345 |
| 1814 | 30159 | 710.35 | 73 | 94 | －85 | $51+0$ | 079 | 1341 | 5 50 |
| 1412 | 2317 | $34,1{ }^{3}$ | 3012 | 138 | 1 Yut | 1 14s | 59\％ | 1 311 | 4635 |
| $14+3$ | 51835 | 4\％b 6 | 111 | 105 | 1 s 5 s | 379 | 313 | 1411 | 4507 |
| －1334 | 49673 | ＋ 4 13 | 895 | 79 | FOTI | 153 | 134 | 1341 | 1780 |
|  | con 75 | Pabit | 6 4AB | 17 DO | 21443 | 1010 | 2＊ | 1 妳t | 3011 |
| 130mins |  | 580,047 1100735 | 6,4145 32170 | 1746 1489 | 21 155 Jfi 143 | 1010 1 St | 264 | 181 | 3311 |
| Madens | 1166240 | － 04325 | 18 納 |  | 4 679 | 1318 | 389 | 7045 | 189 |
|  | B 845 640 | 2501107 | 50,713 | 1.20 .60 | Fs 077 | 1501 | $3+2$ | 1 त43 | 1434 |



Irvahd Penston Establashments - The thard portion of this paper contans tatements of the transfers to, and casualties on, the myalid pension establishments, of the average length of service before transfer, average age at the time of decease, and number of years each grade remaned on the pension list, for the rears 1843-4 and 1844-5 for Bengal, and for Madras for the yens 1842-3 and 1843-4 These returns confirm, in a remarkable manner, the general healthness of natives serving in the army in India, and as such are efficient auxilanes to the deductions respecting the value of hife furmshed by the mortality returns of the effective troops

The headings of the columns are -Number of Transfers, - Avcrage Service before Transfer,-Number of Casualtres,-Rate per Cent of Casualties on the whole Estabhshment,-Average Age at the time of Decease,--and, finally, Average number of Years in the Pension Establishment And every rask on the pension hst, from the subedar, or native captan, down to the groom and the grass-cutter, come under these several headings The total number of transfers, of all sanks, to the pension establishments in 1843-4 m Bengal was 1340, and in 1844-6 the number was 1583 , in the former year seventyeught subedars or native captans, in the latter 126 , the average period of service before pensioming of these officers being forty three years and five months and forty one years and cleven months respectively The number that died in 1843-4, out of the whole number of subedars, was seventy nine, and in $1844-5$ it was sesenty, and the average age of these parties at the time of their death was seventy two eleventwelfth years and sixty-mine one-sixth years respectively, and they had averaged thirteen five-twelfths and twelve one-sixth years respectively on the pension list before decease Detals are given for the several ranks, ten in number, the sepoy, or common soldier, in 1844-5 averaged about twenty years' service before mvaliding (the non-commissioned ranks much longer), the average age at the time of decease being fifty two tive-sixths years, having been eleven and a quarter years on the pension list The average per centage casualtacs on the whole pension establishment for $1843-4$ was 429 per cent, and for $1844-5$ it was 357 per cent A contanuation of the return gives the total numbers on the pension estabhshment, the family pension establishment, and the wound pension establishment, of every rank, remaining on the $30 t h$ of April of each year, together with the casualties, \&c, durnag the year The total number on the invalid pension establishment, of all tanlss, on the 30th of April, 1844, was 24,643, on the funly pension establishment 2526 , and on the wound pension establishment 200 On the 30th of Aphi, 1845, the numbers on these several estabhshments were respectively $25,289,8116$, and 338

The annual expense of the native pensioners in Bengal nas in

| $\boldsymbol{Y} \mathbf{B} \boldsymbol{A}$ | lalue | Salue |
| :---: | :---: | :---: |
| 1840-41 | 740perstim | $19^{\frac{5}{354}}$ |
| 1841-42 | If sp 010 | 198,904 |
| 1813-43 |  | 179246 |
| 2x+3-3 | 1020380 | 190850 |
| 1344-48 | YO, OH | 200,312 |

The Madras return of the pension establishment of the Madras army is of a smalar character with the precedng, but it is for the years $1842-3$ and $1843-4$ The number of deathe of subedars in those years was fifty-one and fifty respectively, having served prenously to invaliding $37 \frac{1}{2}$ years, therr average ages at the tume of death being $62 \frac{1}{4}$ and saxty-erght for the several yenrs, and having been on the pension hist 104 and 114 years before death The average per centage of annual deaths of the ahole pension hist for the years 1842-3 and 1843-4 was 587 and 571 respectively, showing, as an the mortalty of the effective troops, a considerable increase over the mortality of the native troops of the Bengal and Bombay armies The average period of service of the sepor before has transfer to the pension establishment, would appear to be twenty three years and $3 \frac{1}{2}$ months for $1843-4$, the average age of 778 deaths for this year was fifty-six years, but for the preceding year it is stated to be seventrthree years of 774 deaths-probably a graphical error

The number of miltary pensioners, of all classes, in 1843-4 was 26241 , and the charge for them $18,75,457$ rupees, or 187,545l stering $I_{n} 1844-5$ the number was 26,902 , and the charge $18,98,066$ rupees, or $189,806 \mathrm{l}$ On the 30th of Apml, 1845, the number was 27,959 , and the charge $20,45,449$ rupees, or 204,649l The progress from the yeats $1834-6$ has been from 23,900 penstoners, at a charge of $17,93,158$ rupees, or $179,315 l$ to the number and charge above stated in 1845

Culonel Sykes very properly observes, that the production of such elaborate documents as those he has handled indicates no ordmary efficiency in the depart ments in India whence they emanate
"I now venture upon some reflectous suggested by the tabulat statementi, I am so much of an utiftarian, that I am disposed to new labour, both mental and physical, that has not some practical objeet-some definie view-some proximate or remote applica infity to the use of the commonty or to individuala-as labour lost, or, at the least, mis applied and now, on the conciusion of my torls, I am induced to exclam, as Ihate done on former occasions, 'Cuz bono" Happily the question can be answered satisfactordy Jndependeally of the mass of mportant tacts which the offical returns embody, the vital statistics of the Bombay army at each year of hife, from twenty to fifty two, will occasion a complete revolution to option with respect to the ralue of mative life in Indra, and give to the life insurer pastive data for the calculation of tables of the value of life, whech tables may justify the introducuon of the important system of life assurance at very low premums, amongst the natives of India, a system of evisung I behere almost unheeded and scarcely acted upon, or, if acted upon only to an ex ceedingly hanted extent, from the gignorance of the value of native hite occastonng the
exaction of high premums If, therefore, the publication and diffasion of these mortahy returns should occasion an extension of the system of life assurance amongst the natires, it would conter a blessing upon that portion of the communty who have their salaries only as servants of the state, or of mercanule establishments, as a means of support and of provilug for ther families With respect to thic mortality of the Bombay arayy, it is ob erved thit the mortality amongat the troops serving in Scinde is double that of the troops not serving in scinde Nevertheless, in spite of this disadiantageous circumstance the mortaity, is remarkably small for the tropice, as compartiel wh that of stmiar ages in Lurope"

It would appear that an exammation of the gross mortality in England and Wales, between the ages of tuenty one and fifty two, shows that it is comelden' with the specific mortality at age thirty nine, and assuming that such will be the case in the other tables referred to in this paper, we are led to the followng conclusion that during the three years 1842,1843 , and 1844, the mortahty of the whole Bombay native army, includung that in Scinde, was 2729 per cent, being somew hat greater than that for the city of Glasgow at age thirty-nine, which is 2413 per cent. Again, the mortality of that portion of the Bombayarmy, which had been in Scinde, being 4333 per cent, is more than double the mortality of the Northampton table, but not quite double that of the city of Glasgow at the same ages But if the mortality of that portion of the army which had not been in Scinde dunng those three years be taken, it will be found to be onlv 1974 per cent, being nearly concident uith the mortality for France, and below that of the Northampton table or the city of Glasgow In connexion with this conclusion, dowever, it is necessary to take into view mother fact In the two years, 1842 3, the following six regiments wete in Sande, but were not there during the jear 1844 " During the latter year the mean strength of these regiments was 5557 , and the deaths 238 , or 4283 per cent, differng very hittle from the av erage mortality of the regiments in Scinde It is thus seen that the mortality of the notive army suid to be cut of Scinde is mereased from including regiments just returned from that province, and hence it follows, that in order to arrive at the true mottality of the native army of Bombay, exclusive of those in Sande, some correction will be necessary During the year 1844 the average strength of the regiments retually out of Scinde was 25,265, and the deaths 566 , or about 2248 per cent If from thas be deducted the six regiments returned from Sunde in the \}ear preceding the mean strength of the residue wall be 19,708, the deaths 328 , giving a reduced mortality of 1664 per cent So that the mfluence of those regiments just returned from Scinde was to increase the rate of mortality during the vear 1844, 584 per cent I am not possessed of the information at this momeat to show what regments in the year 1842 had returned from Scinde doring the preceding year, but if it be alloned that other years will be sumblariy aflicted as

[^0]the above, in order to determine the true mortality of those regiments which have never entered Scinde, at will be necessary to deduct from the results 584 pec cent If this be done, the mortality of the Bombay native army will be only 1390 per cent, approaching nearly to the mortality for Ireland and Sweden, not wadely diferent from the mortality for the male popalation of England and Wales, and under the moitality of Dondec, France, the Northampton table, and the enty of Glasgon This most important and interesting result deduced from the mortality at specinc ages during the pears 1842,1843 , and 1844 , is confirmed by the gross mortality over a period of twenty years, as already alluded to, and from which it appears that the mortality in that period was not more than 1291 per cent

It will be found that at age twenty-one the expression is 24534 years for the whole army, for that portion m Sande only 16477 years, but for the residue, or that section whech had not been in Scinde during those three yerrs, it is 30697 years, whle for the city of Glasgow it is 29423 , being upwards of one year and a quarte in favour of the native army The same expression for the male population of England and Wales is 43410 years

Again, the equation of hife, for which the probability of survining troo to one, and at age thirty will be seen to be I4 307 for the whole army, only 9484 for Scmde, and for the residue as much as 18247 years The same term for Glasgow is 16969 years, and for England and Wales 27699

At age forty th will be seen to be 9058 for the whole army, oniy 5728 for Scude, but 10653 for the part of the army out of Sctade For Glasgow the evpession is 9591 , and the whole male population of Eagland and Wales 17375 y ears

It thus appents that over those ages the value of life of the army in Scinde is only about one half of that out of it, and also that the value of hfe in Glasgow is also less than in the portion of the army out of Scinde

This method of representing the relative value of hife, confirms the results armed at by the ather tests already given

Anothel important result from the complation of this paper is the necessary removal of all rational grounts for that panic terror which has hitherto obtamed recpecting the intensity and extent of that assurelly very shocking malady A satie cholera In consequence of the unevpectedness with which the disease appears in certan localities, the devastation it commits, sparmg nethei age nor sex, the robnst no1 the feeble, the daring nor the trond, the unthinking and the alarmast are led to characterise these local manifestations as types of the general operacion of this appalling disease, but when we calmily cast our eyes over the mortality tables of the whole Indian almy, whose annual average strength for twenty years was 12,028 Europeans and 194,082 natives, we find that the annual average loss from cholera for twenty years was-


The European troops losing, in fact, only 0724 per cent per annum, and the native troops only 0342 per cent per annum The maximum mitensity of the cholera was only 213 per centin 1843 m twenty years, and amongst the native soldiery dunug that period the maximum intensity scarcely exceeded the half of that amount And, et the recent shocking detalls from one locality in Scinde (Kurrachee) struck the public mind in India and Europe with amarement and horror, and such ımpressions nould be justifiable were, unhappily, these vista tuons to be of frequent or extended occurrence, but the preceding tades prove the contrars, and relieve us from our terrors

Another fallacy which these tables dissipate is the asserted superionty of the European over the native soldier in resisting the anduence of choleia in the first mstance, and in the power of rallying from its effects when attacked The European, it is said, is a robuster man than a native his fibre is more rigd, and his stamina stronger, the native being comparatively feeble and washv from his habits of life, and from the insufficient nourishment of lus farnaceous or vegetable food Now the tables show the very reverse to be the case In no year whatever under the Bengal Presidency has the per centage rate of mortality from cholera of the native troops approached that of the Europeans, nearly the same may be said of the Bombay cholera mortality At Madras there is a difference, the mean mortality of the natives from cholera beng rather more thon a half per cent per annum, and that of the Europeans a trifle less than a half per cent. The final results of cholera mortahty, as already shown, are, for the Europtan troops of all India, 0724 per cent, and for the natives, 0342 per cent pur annum No doubt the reckless life of the common European in India, and the overnstumulus of his ammal food and alcoholnc beverage, predispose ham much more than the native soldher to all diseases he is also a much greater sufferer fom disease than the European ofthcer, and of this we have suftheient evidence in the report of Mr Grifith Davis upon the Bengal Military Fund, in whech he shows that the per centage mortality of all ranks of Luropean officers of the Bengal army for eight years, from 1824 to 1832 , was 377 per cent for the unmarred (only the half of the European soldser in Bengal), whie that of marned officers for the same period was on $1 y 7 \pm$ per cent, and that for the European solder in Bengal, as has been shown, was 738 pel cent This different mortality may very farly be attrabuted to the more temperate mode of hing of the Luropear officers tham that of the men, but fiom whatever ceuse, at is planly demonstrated that European soldhers are greater sufferers from cholera than native soldiers, and this leads me to another great fact illustrated by these tables,
namely, the remarkable general health of the native troops, manifesting, however, distanctive features in the different native armes of the three Presidencles, to which I shall adveit The per centage mortality of the three natue armes for twenty years is shown to be Bombav, 1291 per cent, Bengal, 179 per cent, and Molras, 2095 per cent Now, even the highest of those rates is less than that of the Erghach foot guards, 216 per cent, less than that of the troops at Gibaltar 220 per cent, less than that of the troops in the Ionian Islands 283 per cent, and less than that of the troops m Canada 200 per cent, but the average mortality of the Bombav army is less than that of any European troops whatever, excepting only the Prussinn, which is stated to be only 117 per cent, this low average, howeser, is understood to be owing to the extreme jouth of the men, who have enlisted voung, and have only to serve five years The lowest rates in the Bntish army are -household cavalry, 145 per cent, dragoon guards and dragoons, 153 per cent, and the troops in Ireland and the Cape of Good Hope, both 155 per cent. Now to what cause or causes is to be attribated the remarkable discrepancy between the health of the native and European armes in Inda? All live under the same clmate, are exposed to the same victssitude of seasons, the same alternations of temperature, and are engaged in the same toils, the European is, uf any thing, better lodged in his lofty barrachs than the native in his lowly hut, and is certanly better fed, in the usual acceptation of good feeding, his anmal food beng daly washed down with grog or beer, whle most of the natives subsist on farnaceous or vegetable matters, washed down whth water only But undependently of these contrasts between the health of Europeans and natives, how are we to account for the sungular discrepancy between the health of the Earopean troops serving under the Bengal Presidency and those cerving under the Madras Presidencs, the mortahty of the former being 738 per cent, and that of the latter only 3846 per cent, so that a European regment in Bengal is renewed in ten vears, in Bombay in tielre jears, and in Madras in seventeen only? And in contiast to this we find the mortality of the native army of Madrag 2095 per cent, that of Bengal 179 , and that of Bombay only 129 per cent Unquestromably, over the vast continent of India there must be and are numerous local physical earcumstances, marshes, junglis, insuffic ent dranage, sandy arid plans, or ranl, vegetation, to affect the rtmosphere of those particular localites, and to operate upon the health of the residents in such places. But this will not meet all the bearings of the broad question Why is the health of the European troops so unnersally inferior to that of the natue troops serving with them, whose health, in fact, is superior, of at lenst equal to that of the European troops in their own land' I will not say that the question is absolutely solved by the reply, "Habits of life," but I will say, reasonng from analogy, that the reply goes a great way to solve at The European soldiex
in India is over-stimulated by food, over-stimulated by dmink, and under stamulated in mom and body The European solder eats a quantity of anmal food every day of his life, he drinks a quantity of alcohol every day of his life to the amount of a bottle of spmits in five days, two drams being served out to hira daly, and he has not any mental, and hittle bodaly exercise Happly the permerous practice ss recently discontinued, but tume was when the Curopean soldier was compelled to take his dram by eaght o'clook in the morming, with the thermometer rarying from seventy to nmety degrees or more, at different seasons of the year, leaving bim in a state of nervous irritation and thirst, which could only be relieved as he thought by further potations, mdeed, I have been assured mitho the last few days by a pensioned artulery staff serjeant, who never drank in India, and was only in hospital five days durng twenty-one gears' servee, that he has known, out of a detachment of 100 arallerymen, no less than eight men in strat jackets at one tume, absolutely mad from drink Now antmal food with the assistance of such an auxiliary, and combined with mental vecuity, go far to account for the excess of mortality amongst Europeans
Statement of the Quantaty of Beer sent ta Madras and Bombay for the Use of the European Troops (N B None sent to Bengal)


And the spirits* supphed at each prestdency are-

| Yn Dengai | Runy |
| :--- | :--- |
| At Andrai | Columbo Azreek |
| At Dombay | Bhandsop bpirit |

The first features that catch the eye are, that the Bengal Europeans have not any porter sent to them, and that they drank rumr, a spint not so wholesome as arrack Their mortahty is 738 The Madras Europeans consume large quantities of porter, and drink arrack, a comparatively wholesome spirt. Ther mortality is only 3846 per cent The Bombay European troops have only recently commenced the consumption of porter and the spirt they drink is understood to be more wholesome than rum, but less so than arrack Therr mortality is 5078 per cent These results are certanly not conclusive, but I cannot help associating the mereased consumption of malt hquor by the Madras Europeans with therr comparative healthuess, and the gradations of the mortality in the Bengal and Bombay Luropean troops as partly mfluenced by the quality (no doubt much more by the quantity) of the spirits they respectively consume

In contrast to this, let us examine the habits of life of the native soldier, and we shall find his health in the ratio of his departure from the European systen

[^1]of hing I have been careful to give numerically the castes of the native troops of the armies of Madras, Bombay, and Bengal, with the exeeption of the Bengal cavalry, as ther babits of hife are chiefly regulated by their caste The natures of Indua are generally considered to be very temperate in their habits, but it is quite a mistake to suppose that they all live upon fannaceous or vegetabie matters, and do not drink fermented liquors, it is equally a mistake to suppose that the general food of the people is nce, whuch is only very much the case m low lands subject to mundation, and along the coasta kn the intenor, nice is generally so much dearer than the bread grans, of which there are many (wheats, mullets, the genera holcus, panscum, paspalum, \&c., \&cc ) that nce is rarely consumed, at lesst in Hindoostan and the Deccan The Hindoostanee solder lives almost exclusively upon unleavened cakes of wheaten flour, datly baked upon anuron dish, and washed down with water $\mathrm{O}_{\mathrm{n}}$ the other hand, all Mahomedans, and all low caste Hundoos, are consumers of animal food, spirtuous lqquors, opum, ganja (hemp water), and many castes of the Shadras, the Mahrattas, for instance, eat muttonand fish, when they can afford to do so, but meat is not essentially necessary to health and strength Luebig says, that only those substances can be properly called nutritious which are capable of conversion into blood, that meat is readily converted into blood, that farnaceous food has also this nutritious pronciple in a lugh degree The truth of this profound assertion of Liebig is established by the food of the great majonty of the native solders of the Bombay and Bengal armes I have shown that six-eighths of the Bombay army consist of Hundoos, and considerably more than half of the whole army are Hindostanees These men neyer taste meat, fish, or sprituous liquors, but hre, I may, from personal observation, venture to say, almost exclusively upon unleavened cakes of wheat or other cerealea, baked upon an tron dish, and eaten as soon as cooked The mortality of this army for twenty years is 129 per cent per annum The great majontv of the Bengal anoy (eighty three per cent) consists of a sumular class of men, and the mortaity is only 179 per cent. The Madras army, in its constrituents, is the reverse of the other two armics In the cavaliy there are from six to seven Moosulmans to one Hindoo, and in the infantry there is one Moosulman to every one and one-half to one and three quarters Hindoos, but amongst the latter there is a considerable number of low castes, without prejudices about food, and unrestra ned by the prejudices of caste, therefore the majority of the native troops of the Madras army can eat and dinnk hike Earopeans, and the mortality returas show us that they suffer from cholera as much as Europeans suffer, and that the mean mortahty from all causes as 2095 per cent, or more than three-quarters per cent beyond that of the Bombay army for twenty years I never followed a farinaceous or vegetable regimen myself in India, nor do I recommend it to others, but I ate
moderately and drank little, and I have a strong conviction that much of Europern disease in Inda is traceable to over-stmulus, and that the mortality among the Curopean troops will not be les-ened until the European soldier is improved in his habits, and untrl he is made to understand that temperance is for the benefit of his body, libraries for the benefit of his mind, exercise for the benefit of hus health, and savings banks for the benefit of has purse The chmate of India is less to blame than midividuals, for in case forergners find the people of a country healthy, they should, to a certan extent, conform to the habiss of the natives to be healthy also-Colanel Syhes Report

Actusl Numbers living at each Age in the Bombay Army on the lst Day of January in the followng Years

| A mentet Biritiday | 1842 |  | 1,843 |  | 1844 |  | Total |  | 1845 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Etviter | De the | ESIOES | Daths | Livime | Dratur | 11 ding | D att | L1 DE | Dondie |
| 21 | number 3 dut | $\begin{gathered} \text { number } \\ 2999 \end{gathered}$ | - umber | aumber | 0 imber | number | utoniber | Dimbr | number | number |
| 24 | 9 9 108 | ${ }_{3}$ | 6, 417 | 193 | b, 803 | 16 | 17776 | 840 | 0 d2d |  |
| 23 | 28.6 | 8. | 3049 |  | 8 | W | -72 | 150 | 9.453 |  |
| +4 | 2 ) 78 | 74 | \%,842 | 7 | 9849 |  | , |  |  |  |
| 55 | 185 | 64 | 2.090 | 70 | 2108 | 7 | 5.31 | 149 | 9703 |  |
| 26 | 1, 1.6 | 45 | 1 595 | 52 | 185 | 4 | - 760 | 131 | 117 |  |
| 27 | 9555 | 29 | -198 | 2R | 1440 | 39 | $\mathbf{8 , 0 2 3}$ | 30 | 1273 |  |
| 294 | 593 | 50 | 179 | 33 | 978 | 29 | 2,486 | 30 | H2I |  |
| 29 | 808 | 5 | 382 | 24 | 689 | 16 | 1723 | 32 | 607 |  |
| 30 | 417 | 19 | 418 | 12 | 514 | 17 | 1310 | 48 | 43 |  |
| 31 | 104 | 9 | 851 | 8 | 343 | 8 | 1101 | \% 5 | 3 Hz |  |
| 34 | 603 | 131 | 46 | 13 | 305 | 4 | 1326 | 34 | 4 ra |  |
| 33 | $\mathrm{k}+2$ | 21 | 541 | 11 | 979 | 10 | 165 | 12 | 613 |  |
| 3-1 | 1004 | 52 | 735 | 17 | 47 | 8 | \% 214 | 57 | 78 |  |
| 35 | 114.4 | 46 | 1004 | 18 | 714 | 25 | 3,9003 | 69 | 103 |  |
| 76 | 1462 | 74 | 907 | 20 | 悬1 | 10 | 2 E ¢1\% | *0 | 104 |  |
| 37 | 98 | 96 | 1086 | 趮 | 914 | 12 | 2049 | 15 | 10.15 |  |
| 20 | 652 | 35 | 895 | 14 | 923 | 24 | 210 | 87 | $95 \%$ |  |
| 311 | 769 | 24 | 7 l 4 | 10 | 655 | 21 | 725 | 60 | 782 |  |
| 40 | 45 | 35 | 372 | 20 | 704 | 15 | 9,121 | 34 | 745 |  |
| 41 | 5 Su | 11 | 523 | 18 - | 649 | 30 | 1730 | 51 | 011 |  |
| 4 | 381 | 11 | 405 | 12 | 419 | 14 | 1464 | 40 | 514 |  |
| 13 | 415 | 93 | 522 | 10 | 307 | 15 | 1435 | 1 | 50.1 |  |
| 44 | 8 t 4 | 20 | 419 | 7 | 430 | 31 | 1 203 | 48 | $4-4$ |  |
| 4 | 40 | 18 | $3+1$ | 9 | 319 | 10 | 1057 | 31 | 31 |  |
| 45 | ) ${ }^{\text {Ef }}$ | 11 | 20.3 | 7 | 971 | 6 | A3b | 85 | -1 |  |
| 1 | 231 | 13 | 73: | 7 | 218 | 7 | $66_{0}$ | 46 | 2.18 |  |
| +1 | 17.4 | 5 |  | 7 | 213 | 11 | 61 | 23 | 213 |  |
| 4 | 1.6 | 4 | 184 | 0 | 13 | 2 | 4 T | 12 | 169 |  |
| 60 | 142 | 8 | 129 | 4 | 02 | 1 | 183 | 13 | 127 |  |
| 51 | 92 | 6 | 94 | ${ }^{4}$ | T2 | 2 | $2 * 3$ | 10 | 45 |  |
| 02 | 200 | 6 | 256 | 8 | 233 | 3 | 739 | 17 | 460 |  |
|  | 31472 | 1070 | 3227 | A 1 | 32484 | 732 | 40.9803 | 2 ris | 39080 |  |

Dechements of Indian Army


Per Centages of Mortality at every Age

| 16 | Meles | Buh Soxte | Makxa | Malun | Malde | Doth Sezes | Both Sozen | Malra |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| － | $\left\|\begin{array}{c} \text { Fopland and } \\ \text { Y len } \\ \text { (Volton } \end{array}\right\|$ | Cartale <br> （3inge） | IFriard （Nrion） | Swe ${ }^{3}$ （N conder） | $\begin{aligned} & \text { Dudse } \\ & \text { (Neishn) } \end{aligned}$ | France （Durbland ） | $\begin{aligned} & \text { Narthnesp } \\ & \text { to } \\ & \text { (ilice) } \end{aligned}$ | Clawgor <br> （ A 1509） |
|  | Per cent | pre tent． | put rent | per eant， | pHT ent | pereet 1219 | per cent | perfert |
| 21 | 69＊ |  | 744 | 654 | $82 \%$ | 1219 | 1402 | 1223 |
| 31 | 知 | 145 | Ki | 998 | H43 | 1200 | 1504 | 12 |
| 28 | 704 | 57 | Q 41 | 942 | 904 | 1308 | 157 | 1324 |
| 24 | 709 | COM | 861 | 16） | 915 | 1312 | 1545 | 1374 |
| 45 | 781 | 404 | $88 \%$ | 987 | 5485 | 137 | 156 | 1814 |
| 45 | 737 | Э6\％ | 989 | 1 0ts | 14025 | 1465 | 1801 | 1 18．3 |
| 97 | 777 | 081 | 949 | 1085 | 1099 | 1451 | 167 | 1 ， 44 |
| －13 | 874 | 8 m | $4 \times 5$ | 10.1 | 1103 | 1 Het | 101 | 15004 |
| 29 | 983 | 1411 | 1007 | 1114 | 1145 | 1317 | 1082 | $1 \mathrm{Cr}^{1}$ |
| 30 | 10.10 | 1023 | 1030 | 1146 | 1185 | 13.9 | 119 | 153 |
| 31 | 1090 | 1034 | 3093 | 1160 | 1225 | $1: 9$ | 1710 | 1 \％ol |
| 3 | 1015 | 18 m | 1075 | 1173 |  | 1 111 | 171 | 167 |
| 33 | 1005 | 10.63 | 101\％ | 118 | 1354 | 16.13 | 18 80， | 133 |
| 34 | 1015 | 11178 | 1121 | 1201 | 134 | 1873 | 1630 | 1.75 |
| 35 | 1020 | 1493 | 1119 | 31.8 | 1394 | 105 | 1670 | 3040 |
| 317 | 3035 | 1 113 | 1181 | 1230 | $1+65$ | 138 | 1 wof | 2110 |
| 37 | 1085 | 11.34 | 1213 | 1246 | 1276 | 15 | 1945 | 2719 |
| 35 | 1117 | 1187 | $12 r$ | 1862 | 1605 | 1810 |  | 2318 |
| 49 | 1188 | $11+4$ | 1704 | 1320 | 1740 | 1849 | ${ }_{2} 123$ | 8113 |
| 40 | 1400 | 1218 | 1856 | 1510 | 1717 | 1881 | 2 n 91 | 2 CH |
| 41 | 127 | 1248 | 1463 | 1555 | 180 | 193 | 5 Jal | 碰 |
| 44 | 1537 | 129 | 1480 | 1605 | $1 \mathrm{n}^{17}$ | 1598 | 2210 | 4697 |
| 43 | 1453 | 1 \％12 | 1 148 | 1 ckt | 2075 | 30.10 | P 401 | 3 92 |
| 44 | 1180 | 1 ，4t！ | $1{ }_{1}^{125}$ | 1173 | \％ $\mathbf{2}$ 29 | 049 | 5 20 5 | 边 |
| 45 | 1－181 | $1+107$ | 1609 | 1777 | 2845 | 8104 | 2101 | 3110 |
| 40 | 1188 | $1 \sqrt{14}$ | 1031 | 1878 | 2010 | 2035 | 2161 | 318 |
| 4 | 14100 | 14 | 1 NF | 1 But | 2389 | 2311 | 2.3 .3 | 3 S 5 |
| 48 | 1318 | 18 | 10005 |  | 2331 | 2399 | 2548 | 3185 |
| 40 | 1368 | $1 \times 21$ | 9638 | 9．76i | 2624 | 9 904 | U19 | 3173 |
| \＄0 | 1442 | 1485 | 210 | 2168 | 8716 | 285 | \％485 | 7610 |
| 51 | 1419 | 1761 | 7303 | ¢ 49 | 25049 | 4 97 | 9154 | $3 \mathrm{l}, 8$ |
| 4 | 1530 | 18.48 | 2.435 | 8370 | 2 JOH | － 850 | 3044 | $3 \times 15$ |

The Equation of Life, representing a Term of Years, for wheh there is an equal Probabslity of Living

| A「ES | Selase | Dealune | Tok I Arwy Bombray | F+ ginnd And Wraler | G1 grow B4 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 21 | porcent 16 477 | yetr 30607 |  | Mer cent 43410 |  29 123 |
| 25 | 16200 |  | 23 ¢5.5 | $40 \pm 10$ | Y7 760 |
| 0 | 15978 |  | 22717 | 36487 | $9+6{ }^{4} 4$ |
| If | 11410 |  |  | 32 175 | 21743 |
| 40 |  |  |  | 387A7 | 19) OFT |
| 45 |  |  |  | 94978 | 16363 |

Tue Equation of Life, representung a Term of Years for which the Probability of Living 25 tivo to one

| AGES | Scimele | Rowedue | Tatal Array Bombly | Englanat mal Wales Alalen | Ckengnow $M$ l |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | per cont | pex cent | perchit | pert cent 37913 |  |
| 21 | 149 989 | $\begin{aligned} & 70-5 \sqrt{23} \\ & 19801 \end{aligned}$ | $\begin{aligned} & 14771 \\ & 14.188 \end{aligned}$ $14453$ | $\begin{aligned} & 37913 \\ & 30370 \end{aligned}$ | $\begin{aligned} & 21495 \\ & 10443 \end{aligned}$ |
| 39 | 9484 | 18 2it | $14 \pm 07$ | \% 70 | $1636 \%$ |
| 31 | R aft | 16391 | 13.434 | 24731 | 15-419 |
| 40 | 8230 |  | 12308 | 2169 | 12696 |
| 45 |  |  |  | 18016 | 10.033 |

Tae Equation of Life, representing a Term of lears, for whels the Probabilty of Livigg is three to one

| AGES | Sinds | Respue | Total hray Bandary | Fngland mad Wales M4! | Glaggow Malex |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | perext | per cen' | porce | per cent | Prit cent |
| 21 | 4 $)_{0}$ | 1404 | 10357 | 25048 | 10.113 |
| +5 | 6770 | 14001 | 14) 251 | 24 나ㄴㅏㅏ | 15102 |
| 310 | 7470 | 14075 | $10+105$ | 22127 | 53 (146 |
| 35 | 611 | 12735 | 0959 | 19807 | 1193! |
| 43 | 57 | 10833 | 9058 | 1735 | 9 为 |
| 45 | 7000 |  |  | 14675 | 8189 |

Montalita among the Mhtary m various Countres

|  | Mortality | Calorat Tul tock | REG[MENT: | Martality | $\begin{aligned} & \text { Cototict Tel } \\ & 1 \mathrm{ch} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Wraspon | per cont 153 | P ${ }_{7}$ | Whate trogpd Gtb altar | par cent | $94{ }^{50}$ |
| $F$ of Guards | 210 | 7 | Plack Hroope ditto | 680 | 17 (ci) |
| H uactudd cuxaly | 175 | 10 | Hrditali troops arnima | 1 ar | 2) (a) |
| Tr jy inlolinad | 155 | 93 | 'Troops in Jon ieps Intande | 248 | $32(\mathrm{~d})$ |
| 1 reti la artay | 195 | 139 | Lapen of Gaud Hope | 155 | 215 |
| Ir 614 n army | 17 | 57 | Ganado | 200 | 25(A) |

## CHARITABLE DIEPENSARICS

The statistics of the Government Charitable Dispensanes of India, chefly in the Bengal and Noith-Western Provincos, have been admirably prepared by Lreutenant-Colonel W H Sykes, I RS, and we regret that we can afford but a linited space to those very interesting returns

Durng the admmastration of Lord Auckland, the mstitutions, described by Coloncl Sybes, may be said to have ther orgm, and at was in a letter, dated the 27th of Aprit 1838, that the government of India sanctioned the estabhshment of dispensartes in some of the large towns in the Bungal Piesidency I'L: were to be under the cusl assistant surgeon of the station, who was to be allowed hify rupees per mensem, including hos vaconation duties An educated
young man, from the Medical College at Calcutta, on a salary varying from forty to 100 rupees, but latterly fixed at 100 rapees, was to be placed in charge of the dispensary A small number of beds, for extreme cases and for surgical operatuons, were attached to each dispensary, and the appontment of boys, as apprentices, for vaccine objects, was suggested It was proposed to limit the monthly charge for each institution to 250 or 300 rupees The dispeusary was to be furmshed with medicines and surgical instruments from the government stores, and instruction was to be given to any youths who might desire to attend The natuve assistant mught practise provately

The judge, magistrate, and civil surgeon, were to be a standing commitee for the management of the dispensary, and were to correspond with the medreal board The revenue commisstoners were to have a voice when present, the civil surgeon to be ea-afficio secretary, and the committee might invite the co operation of any native gentlemen

The above arrangements were confirmed by the Court of Directors, in a despatch to Bengal, of the 13th of July, 1842, drecting, however, that the cost should not exceed a certain fixed sum, unless the natives assisted by subserption

The Medical Board, in a letter to government, dated the 31st of October, 1842, speak in confident terms of the prospects of success of the institutions, and say there are more native sub-assistant surgeons than can be employed in the service, "and uf, after the trouble and expense which have been incurred in educating them at the new medıcal college, they be not sufficiently qualfied, we must despar of ever seemg that object effectually attaned "

What these qualifications proved to be the following paper will show
"The expectation of and from the natives was not disappointed The Rajab of Burdwan, on the object being made known to him, immedrately allotted 200 rupees per mensem for a dispensary in Bardwan, and others in hbe manner have come formard
" The sul-assistant surgeons in charge of the dispensaries were not all natives, although the great majority were so, some being of half blood, and having proluably a famuarity whth the Enghsh language The reports and returns were to be made half-yearly by the sub-assistant surgeons themselves, and as I shall have occasion to read a report from one of the educated European surgeons, and one from a native sub-assistant surgeon, the auditors pill have the opportunity of judging whether they conld distangush the one from the other by the phraseulogy But the reports are not limited to the comamucation of information on medical subjects, they contain also much mteresting and valuable matier on meteonology, the habists, customs, and prejudices of the natives, the state of dramage of towns, and physical characteristics of loculities The reports, so sent m , were transmitted by the supenntendang sargeon to the Medical Board at

Calcutta, and by the latter forwarded to govemment, and the government, with sound judgment, drected them to be periodically printed for the use of the Court of Ditectors, the government of Bengal, and the medical department generally
"As the returns comprise 267,456 cases treated, it may very properly be asked 'What test is thete of the accuracy of the returns made by young natives, who had every possible motive for exaggerating and enhancing the amount of thear own labours and success, whose bread, in fact, depended upon this success ? Settang aside, however, the dally supervision of the cival surgeon of the station where the dispensary was located, the returns themselves bear internal evidence of bona fides. How easy was it for the sub-assislant surgeons, partsculally with out patients, to put down most of those who ceased to attend as cured, nevertheless, 94,618 axe put down as reheved only, or eeased to attend How easy was it for them, in the treatment of diseases which the world hnows to be of almast certain cure, such as those of the skin, gonorihoer, syphils, \&ce, to have put them all down as cured, and no one would have questioned the accuracy of the return for a moment, nevertheless, not twothurds of these cases are returned as cured It mught have been expected, also, with the natural vanity of young men just started into practice, that there would have been some little show off, some mamifestation of a suceessful treatment of difficult cases, of curing diseases that are not readily affecied by medicine or art, but there does not appear to be any thing of the kind, excepting in two returns, which may be attrbuted to typographical errors Elephantiasts, scrofula, tetanus, epilepsy, paralysis, anasarca, and leprosy, which are iarely manageable no the hands of the European scientific medical man, appear by the returns equally unmanageable in the hands of the native sub-assistant surgeons. There are in the returns numerous typographical errors, many of these hare becu corrected from the body of the return itself, and the others only occasion an eiror in the individual return, which is not appreciable in the sums total of all the returns On the whole, therefore, the returns may be viewed with conf dence for their general accuracy It is not my object to enter unto any medreal question at all, wy objeet is simply to show the amount of good done, and I might confine myself, therefore, to giving the total results, but the readers may expect from me some cursory observations upon the general features whirh the tablus exhibit, and to these I wath hous myself, refersug the medical man to the tables themselves for details I have arranged the tables so that a progresbre view may be taken from Dacca and Chittagong, in the low lands of the East, through the low lands of Bengal a a Bhowanoepoor, Pooree, Moorshedabad, Patna, and Benares, to the Upper Piovioces ua Allahabad, Agia, Dolhi, Shakjehanpoor, \&e, thus separating what are called the Lower from the Upper Provinces of the Bengal and Agra governuents, that medical mert, or others if
so disposed, may investigate as far as the tables supply the means, the cffect of climate in developing particular diseases One element, however, to assist the judgment in the investigation, is wanting, and that is the population of the respectrve neighbourhoods of the several dispensaries In only one instance is it given, that of Allahabad, and I have attached it in the Apm pendix Confining myself to the broad features, I may state, that $267, \pm 56$ cases, meluding house and out-patients, were treated-of this number 168,571 were cured, 2417 deed, and 96,168 ceased to attend, and the results were not known Intermittent fevers amounted to 20,029 , and whth the minor accompans ment of 4590 remittent and 6807 continued fever cases, take the lead of all other diseases both in the Upper and Lower Provinces, excepting only rheum matism, of which there were acute 9087, and chrome 19,928 cases The intermittent fever obtaned at all the dispensaries as a leading disease, the remittent fever very slyghtly at Moorshedabad, Pooree, and Chittagong, wn the low lands, but considerably at Dacca, also in the low lands In the Upper Provinces, scarcely at all at Agra and Mutra, but considerably at Delbı and Barelly The continued fever appears to have been pretty equally felt, excepting at Moorshedabad and Pooree, in the low landa, and Cawnpoor, in the Upper Pronnces Rheumatism, both chromio and acute, prevailed at all the dispensaries, the only exceptan for the acute being Moorshedabad and Pooree, in the Lower, and Agra and Mutra, in the Upper Prownces, at which two last places there is not a single entry
"The next great features are ulcers and abscesses The former nival in amount ( 20,615 ) the intermitent fevers, and preval in all climates, but are readily curable Phlegmon and abscesses $(10,418)$ are half as numerous as the intermitent fevers
" Diarrhoza appears to preval generally, but not with any intensity, amount mg ( 9123 ) to about two-fifths of the intermittent fevers
"Dysentery, both acute and chronc, appear to be moderate, the former 3602, and the latter 3377 , the two together barely constatuting a thind of the intermit tent fevers
"Patna, and Benares, and Barelly suffered most from the former, and Benares and Delhu from the latter forms Enlargement of the spleen (6484) appears a common accompanment, or rather result, of fever cases, but it deeidedly prevails in the Lower Provinces rather than the Upper, the only exceptions being Allahabad and Delh, and at both these places fever prevaled in more than an ordanary degree The next great feature, of rather the chief feature, as far as numbers $\mathrm{go}_{\text {, }}$ is that of the comparatively harmless diseases of the shin (25,733) These are common to all the dispensanes, whether in the Lower or Upper Pro vinces, and in some few cases they have proved so intractable that death has ensued. A melancholy feature of the returns is the large amount of syphidic
and analogous affections, prumary and secoudary, amounting respectively to $13,261,7658$, and 6694 , and frequently being of so inveterate a character as to occision death A singular feature of the returns is the comparative'y enormous amount of mechanical mjuries of contusions, 1548, dislocations, 712, mocised wounds, 2588 , fractures, 737, and burns, 517, total, 6102 This scarcelv supports our adeas of the genile, resigned, and placable Indian, but would rather lead us to beleve in a good deal of pugnacity and violence, with no indisposition to occasion broken heads and broken bones, it is but farr to admat, however, that many cises are returned as wounds, \&c, from elephants and tigers A very affecting aceident is mentoned by the sub-asastant surgeon of Benares, Esher Chunder Gangoolee, under the head of 'Burns,' whech terminated fatally, he says-
" 'The second case uns that of a man who fill into the funeral pilc of has only son He was buint all over the front part of has body and on beng brou ht to the bospital endearoured with all the strength that was left him, to prevent the appliention of external remedies he also refused to tahe any internal medicine, and died next morning
"Such cases of ardent attachment exhbiting itself in other forms than the above, are by no means uncommon, and I have witnessed several Even in cases of Suttoe I bave known the widow resist with all her power, attempts to remove her from the funeral pile of her husband Both bilous and epasmadic cholera appear but as minor items in the returns, they appear to have been treated smultaneously in several of the dappensanes, though the mortality from bilous cholera bore no comparison with that from the spasmodic, neverti eless, the results of the latter support the statements I recently published of the mot tality in the Madras army for five years, fiom wheh it appeared that the mortalty, from cholera, even in the worst periods, never reached tro per cent of the whole mortrhity of the army Inflammatory diseases, whether of the head (370), chest (1574), or bowels (326), bear a small proportion to the total diseases I should have thought that inflammation of the chest nould have stood piominent in the Upper Provinces, but it appears only to have prevaled to any extent at Moradabad, while a greater number appear on the returns from Chittagong, and 248 from Moorshedalad Diseases of the nervous functions appear scarcely maiked The largest figure is 1170 , paralysis, with only 90 apoplexy, and 68 tetanus, mania 369 , many of wheb cases are returned cured It is a singular feature among the people of Inda that so small an amount of madness, in its various forms, prevails
" Dropsy, under its different divisions, is by no means uncommon, but its trcatment on the whole appears successful Leprosy appears to a considerable extent, 2436 cakes, and throughout the Upper and Lower Pronnees remedial teatment appears generally ineffectual, but sume cases to the contrary, in one or two of the 1 eturns, have led to one of my preliminary observations I may say the same of asthma, which is geneally returned as relieved only, but in some cases the contrary The asthmatic cases are 3740 Consumption does not
appear on the returns at all of six dispensaries, a solitary case on some others, and the highest number is at Chittagong (44), where it might have been least expected On the whole, it is comparatuvely non-existent in India Colds are common enough (6466), although not a thud of the fever cases, and do not appear to produce the consequences common in less favoured climates Disease of the liver, both acute and chronic, the bane of Earopeans in Inda, is bat a fraction of the whole amonnt of disease amongst the natives, only 299 acate, and 789 chronic cases, having come under the observation of the sub assistant surgeons It might have been supposed that columns for fifty-eight discases Fould have comprised all that it was necessary to report, nevertheless, so far from this being the ease, the columen of 'Ahi Morbi' contans the greatest total of any, namely, 51,908 This column comprises hemorrhoids, cancer, fistula in ano, exostosis, amaurosis, catalepsia, bronchitis, constipation, diseases of the teeth, aroup, hystena, hydıophobia, leucorrhcea, duabetes, and unusual forms of diseases of the respiratory organs, of the sexual organs, of the skin, \& $c$ On the subject of the mortality in the treatment of the different dxsenses, I shall say little, it can only be farly put in connexion with the treatment of the house-patients Here the diseases mostly ran therr course and the results were satısfactorily known, but even from the house-hast, patients to the number of 2550 absconded before they were healed Amongst the out-patients, the results of 89,263 cases were not known, by the parties not returning to the daspensary, of these many may have died, who are not inselted m the returns As the dispensary retuchs, however, show the nomber of those who did not return, and the diseases for Which they were treated, an approxumate estmmate of the probable xesults may be obtaned from the nature of the daseases, and using the results of the treatment of sumiar diseases in the house list as elements of comparson and deductora 171,722 of the out-patnents were known to be cured, and the known success justifies, to a certann extent, quahified presumption of success in the unknawn cases I muat, however, refer those disposed to mvestngate the subject to the tables themselves for the detals
${ }^{\text {os }}$ I bave hitherto adverked only to the knowledge of medacme of the subassistant surgeons, but the most valuable branch of knowledge tanght to these young men is the science of surgery The amputation of limbs, couchngg for catarnct, eutting for stone, tapping for dropsy, \&e The success of the several operations is very credutable to the skill and to the nerve of the operators The diary of many of these cases by some of the operators, in their own smple, and for the sake of brevity, contracted language, is often of considerable intereat. I annex two notrees of cases of hthotomy, as types of others, but Sub-isastant Surgeon Ram Narran Doss, of Cawnpoor, showed his skill, not only as a mamipulator in lithotomy, but as an excellent draftsman, for he attached to bis ree: port drawings of the stones he extracted


#### Abstract

Cawnpoor, Der 1849 " 'Among the operations performed lithotomy forms the most in the number, and since the dispensary is under my chaige I luave operated for stone on twelve subjects, and am proud to say that I have been successfil in all of them, all got well without much trouble or suffermen and within the past six months, four enses of lithoiomy bave been


 operatid, and three are discliarged cured, and one is under treatment *"Jabbulpoor Dec 1845
" 4 In this case there was evidently mfiltration of urine to the cellular tissue about the neek of the bladder, and the communtcation between that receptacle and rectum was the result of ulceration The rectum was not certanly wounded daring the operation This is the only case in which untoward symptoms came an out of my ten successful operations $\dagger$
" It will not be necessary to advert more at large to numerous successful surgical operations of all kinds performed by these young men, but in the Appendx I have collected some hists of reported cases for the mspection of such as desure to examme them
'Another of the mportant dutres these young men had to perform, was the discoverv and application to remedial purposes of native medicines, many of whech were known to be very efficacious, altbough unknown to our pharmaeoperiss It was desired to save the expenditure of European medicines, and to select such native medicines as maght adiantageously be incorporated in our Enghsh pharmacy How effectually thas desure has been realised, whl be shown by the accompinying selectoons from the lists of new medicines used in the dispensaries $f$ The most extended list is that supphed by Dr Davis, of Patna, the zealous author of the statistical account of that city He has given the names in Hindee and Pirsian, and bas shown where a corresponding Enghsh name is wanting, and a glance dono his columns proves that 232 native medicines are unknonn to our English phimacy, and the native sub assistant surgeons supply others The lattei, in their reports upon the compound metallic uative medicnes, show a very respectable knowledge of chenical analysis, for they themselves, when dissatisfied with the accounts of native physicians, of their process of preparing their medicincs, test therr accuracy by analysis In one instance Ram Narrain Doss, of Cawnpoor, exhbits not only his botamical knowledge, but lis power of delineation, by sending a scientific description and correct dawing of a plant producing a new medicme, the sha pussund, a convolvulus, the sceds of which have the came purgative property as thubarb He phes in analysis also of the sceds The drawing accompanies this paper Dr Bilfour, of Agra, lepolting on the conduct of Omachun Set, on the 3Ist of Januar, 1841, says-

- All the above marhed is guotation trom the nformation of the sub assustant surgeon and is furnshed getuerally in. has own words I am happy to be able to contia te to report farourabl, buth on his atteation and the succese of ha practice, a6 it

[^2]has fallen under my observatian He has, as will be seen above introduced a consuderable number of patue remedies into the dispensary practuce the most useiul of which undoubtedly are the bistenag flies and the turbuth, which is now used in large quantutes as a substitute for jalap, and will greatly reduce the expenditure of that drug The moat perfect confidence appears to be piaced in the sub-ass stant surgeon by his patients-they come from very great distances, ind are many of them of a most respectable class-and it is no uncominon thag to see one who has been cured return frengrog with ham a sick comrade or relation to introduce hm to the place They also return when afflicted themselves with different ailments, or a return of the former one With all the success of the dispentary, there has been no drying or urging of patuents to attend, all that bas been done has been to extend the knowledge of the institution as widely as possible, leaving the people to come unfettered This has answered well and means are at present betig teken by hand bills in the native languages (which are getting ready) to spread as widely as possible in the neighbouring districts, the intention and benefits of the Agra Dispensary

## " Offeraterg Cinl Surgeon and Officaang Secretary, "'Dupensary Commutiee'

"'The people of Upper Hindoostan are stall so strongly prejudiced agunst female freedom and femate happiness, that they always take the best care to keep therr wines and daughters th the mnermost recess of their cooped up houses, they live no fath on each other, and consequently none of the oiher sex, but such as belong to the family, can have an access to the famly part. When stick of the orcharry diseases, I mean when not very dangerously ${ }^{11}$ ), they must be treated by the history of the case is described by some of their male relatives, otherwise the physician is adnutted to feel the pulse, by wholn guide alone they must be treated It is no wonder then that for the diseases of the unmary and the generative organs they should meariably hase recourse to nursea and old grandmothers The few who apply to the dispensary come not before the disense has advanced to a fatal extent $A$ very large number of women suffer on account of this over modesty and groundless siame frotn difficult patturtion and its sequele The country ourses who are proverbaily tgnorant, and who know nothing of the organs they deal wath or of their funclions natural or as modified by curcomstances, but are nurses only by brthinght, are called in on all occasions of purturion, but these, instead of assioting the parturient female, treat her so roughl, and that so frequentiy, and relate to her so many frightiul tales, to shorten, as they believe, labour pains, and to quicken deinerv, as to depicss her spuris entirely Thus a most easy and nutural phenomenon is often converted into a most roublesome and hazardous job The Hakeems have no medicnes to expedte deliveny, nether do the people approve of the plan of admasterng medicines to pregnamt women

- The next sonrce of female misery lies in the belief in ghosis and ent spirts. The nervous diseases are all regarded as sigus of the patient beng infuenced by bhoot or ghoste, recourse is therefone myariably had, in all such cases, to blowng munters,* and suspending amulets
- Mithooa, so called from a faise notion that the disease anses from the excessui swecthess, or mathe, of the mother's milk It is a very fatal disease It greatly resembles the tabes mesentercea of the European authors, I say resembles, because I have not vet had an opportunty to dentity the two diseases by post mortem examination Mathooa st chatasteased by the same wastang of the body, tumefaction of the abdomen, presence of a slow fever, disordesed state of the bowela, and, Iastly, consumption and death $\Lambda$ combination of two savage custowis hats contributed to make this disease so common in this ooumry, and the exireme poverty of the people has made it so ftal, at or about the second month of its infantile life, every chuld is made to take opmum, wire or any other narcotic drug to lult it into sieep, this unnatural and cruel practice has ganed so firm a footng, in the city in particular, that even the rich mothers, whocan
eastly afford mad-servants for ther chaldren, nay, who have them already, mdulge in it frequently
" 'There st no ordmary difficulty in admansterng to female allments from the determined exclusion of the women of many classes and caste, and superstitions usages add to the difficulties the European medical man has to encounter'
"Respecting the mhabitants of Patna, Dr S Davis writes -
"* The habie, education, morals, and customs of the mhabitants of the city are in many respects better than those of many of the great cuties of ladia There is less of religious parade and intolerance amongst the Hindoos, and the Mussulmans (though very numerous) are greatly shorn of that arrogance which has clung to their character and manvers, more or less bnce the Mahomedan conquests this, doubtless, arises from the circumstance of there being but ferr families of enther nobility or large property, and consequently few prietts to mimister to therr vanities or weaknesses, for wherever the carease is there the ravens will be"
"I I have before said that the etty mpresses the mqurer with the idea of actise industry and it is chiefly by the exercise of this tizat the large population is supported as regards education, all that can be said is, that as a certam quantity of learning is necessary for bungis and shopkeppers, there are few, except the pooreat of the labouring classes, who cannot read and write, and but few who have higher aequirements of a scholastre character than this, if we except a clase of men who are brought up with a view of exercising their talents as omiahs in the different courts, and a few others who re ta the course of education at the government school Amongst the former are some learned in Oriental liferature, but by far the greater part are utilitarians, and acquire only that heas̃ure which will come into actual play, and turn to account The government senol having been established but five years, it is diffieult to soy what will eventually be the effect of it, but when we consulet that the great mducenents to learning are profit, ether in the shape of monev, station, or fame, and the little chance the tleres of these establishments have with those who have been spending therr youth in acquining in intimate icquantance with the acturl prectice of the courts, and are, as it uere, read made omlalis, I thok the chances are, that those who metely look on the profit side of the question will give thetr sons an education, which will fit them for immediate emplotment at Patna The government school has never been a popular insti tution At first there was a feelong that it was intended to altenate the chidren foom ther paternal fath, then again the system was not considered sufficiently utitartan so that comparatively but few of the respectable natives encouraged their children to attend ${ }^{\prime \prime}$ Time will doubless wear away therr feelmgs, and we may yet hope to see knowledge spread its roct and branches far and wide
" : With respect to the morals and customs of the cttrens, it is difficult to form any rational conclusion, on account of the exclusive mode of life of both Hindoos and Mussulmans except that in smuch as industry prevails, mmoraliny (which is the offspruig of thleness) usually dechties In a population of upwards of three lacs there must be much mmorolity, and in crowded cites dirunkumess is generally a crying evil It is to be lamented that there are mady facilites for mdulging this vice the city is surrounded with toddy trees and in addition to the produce of these, intoxicating hquors are pre pared from molasses, moxa and other articles, but notwithstanding this, I do not think that the mhabitants generally are memperate, though in a city of such magnitude, the consumption of country wine and spirt among the lowci classes must be considerable The grosscr vices of bloodshed and theft appear to be less frequent than in other distuets, owing probably to the full emplowment which every one willing to work may obtain tor his time, and on the whole the popalation may be classed as adustrous, with fuwer of the prejudices than exist among the villuge population generally There is molbug peculat to notice in therr customs, and I shall proceed to a slight review of the state of the public heatly
" 'The province ot Buar may be considered as favourable to health as most parts of the continent of India and the diseases I have mentioned as frequeatly met whit at Patna camot be considered as pronf to the contrary The abjects of some of them are outhasts trom therr famulhes and homes, and are brought together here from the surround-
uog districts, by the common desse of exaling the commuseration of the weatithy and humane
" As an all crowded cethes epidemeses oceasonally appear, and apresd devastation around them, and during the eight years of ory restcleace I have seen several severe vistanons of cholera and remittent fever, the former usually makug its appearance at the commencement of the hot winds There se ofter ia Apri! and May, an mdescribable but ueli-understood state of the afmosphere accompanied with variations in the wind, and a hazv and sultry appearance that is favourable to the production of the former very frightul disease Durng such weather vou find vegetation bighted by mpaipably small ammalcule, which elode the perception of the naked eye, but are easily discerned by the and of meroscopic instruments
"s I have long thought that cholera and some other diseases have ther ongin in anmalculine blight and late writers have brougit together so many laets bearnig on the subject, that thes opinon gans greund with me daily nor is the circumstance of diseases spreading more in crowded cities than in smaller localities at all contrary to thri theory, since there are so many more pouts of attraction or depost The state of the atmosphere is, without doubt greatly modified by the locality over which it ranges, and in stiutions favouralle to the production of disease, it as not unreasonable to conclude that a pecular state of it is attended by a vivifying mfluence which brings anto existence poisonous anmalculine exhalations capable of produeng maladies in thase who may be obnoxious to it, esther from congenital or induced debility or other idosynerasy Those visitations are not of very frequent occurrence here, but the district to the south of Patna is rather low and swampy, and I think, ceteres partous, rather favourable to the production of this pestilence The same theory may perhaps be apphicable to remitteat fever, and the difference between the diseases accounted for, etther by the quality or dose of the poison The fevers of this part of the country are, however, much more manageable than the bilous remuttent of Bengai, and partake more of the nature of inflammatory fever, as the remmssions are very mperfect, and the hepatic system is less deratged Niseteen cases out of twenty yold to actre and prompt medical treatment but where this is neglected, dysentery frequently ensues and brings about a fatal termination Rheumatism is very common, and difficult of cure, ond a very great many cases of cataraet occur to men and women between the ages of fifty and seventy the operations for this dasease at the City Dispensary are very numerous and successtul.
"On a general review of the state of the population of Patna, as respects health and disease, I have littic to suggest It would be very desurable if the mbabitauts were spread over a larger surface, but as this is alnost impossible to accomplish, the greatest safeguard to liealth w ill be proper dramege, and the prevention of accumulations of tulth I hove mentoned that the land to the southward of the city is in many parts yery low, bat although low, most of $4 t$ as above the level of the river during the months of October and November, and might, without any grent difficulty, be dramed into it by one or two judicoust;-placed canals this would probably interfere with the proprictary rights of a few zentindars, as the water is dammed for the purpose of urrigation, but this nosght be settled whont much difficulty If this plap were carned into effect, it would be peces sary to have wa er on the side of the river to prevent its ingress during the ratns, and th adduon to these a pucka dran on ether sude of the man street communcatiag with these canals should be made, by which means the whole culty and suburbs would be effectually draned I camot help thinking that this would materially add to the healthness of the city, as I consider the fevers at the close of the rans zo antse from pestulental exbalations from the low marshy land to the south, brought tute a state of activity (if not of vitaluy) by a pecular electrical state of the atmosphere, wheh orcasonally prevails at that season for it is a well-known fact that the residents of the high banks of the river suffer less than those of tes southern envrons In respect to the many loathsome objects who are contunually wandering about the streets of Patna, it is a great desideratum that some asylum should be prowded for them, not with a view to their cure, for it wo unitely that more could be done far them in that reapect than they have the means of attaining by application at the dispensary, but in affording then food and shelter and a betile clathng during the eold weather it may be urged that these proar creatures are more the objects for private chanty than for the conederation of govern-
ment but when we see that notwithstanding the liberal exerese of this, hundreds are outcests from their fatnly and homes, without food or clothes, and too much crippled by disease to obtain either by their own madustry, it surely becomes a benign goveriment to find them shelter and protection Even undet the nause govermments, seraus were established and matntaned, and endowments were given for charitable purpoges, and it 15 dificult to contemplate their enhghtened suceessors retrograding in charity and prow tection The sume state of things exists, I presume, in ail the great cithes of India and a small appropriation of the many funds at the disposal of government would put an end to it, and prevent the unsightly perambulations of these pitable but disgusting bengs The "Terry Funds' are nich and unappropriated, and a "Refuge for the Destutute might be formed from them, which, under proper management, would be a real clarty
"The half yearly report of Sub-Assıstant Surgeon Jaudub Chunder Dhara, after giving a succuct chroncle of the state of the atmosphere and of disease, together with the operations of the Allahabad Dispensary durmg that period, terminates with the following observations by Jaudub Chunder Dhara, Sub-


## Assistant Surgeon

" ' In conclusion, I beg to bring to the notice of the board the happy and wonderful effects of the atrate of silver, in a species of skin disease very common to Inda It 15 characterised by the discolouration of the skin, in small patches, with loss of sensibility in the parts The lips palms of the hands, and soles of the feet are most frequeally attacked but the rest of the body is not entrely free from the affection It begina in very monte whte spots, which gradually expand till they occupy a larger surtace. The disease is not attended with any pain or constitutional irritation, the patients enjoy pretty good health, and think of medicone, because the spots look bad, but espectally because it is deemed by the natives the result of some frst-rate sin com mitted in a former bife'
' The supenntendent surgeon adds -
"' In appending a few obsprvations to this half yearly report of Sub-Aassistanl Surgeon Jaudub Chunder Dhara, I have much pleagure in stating, for the information of the Mudical Board, that his conduct has been most exemplary during the last ox months, and such as to merit my approval in every respect
" From his excellent qualifications as a medical practitioner, zevious attention to his profession, and great success in his treatment of the numerous stek submitted to his care he his inspared generat confidence and respect
"'In the pertormance of sargical operations he exlatits coolness, dextenty, and judgment
"• The conduct of apprentice Lalla ments my approbation, and I incend shertly to gend him before the medical conmittee at this station for exammation as to the progress he has made m his studtes. I regret to say that the other appientice, "Chunaee," has not given satisfaction and I have been obliged to dismisg him, and am looking ont for a substitute in his place, beng a high caste Brahmon, he objected to zonch a dead body
"The followng notes on the burial-grounds of Beares, by Issar Chunder Gangoolv, bnings to light a most serious evil -
"E Benares Januay 311844

- The hiberal dispobition whith which suggestions are received by my superors emboidens me to bring to ther notice the existence of another evil m Benares, whech is productive of serious misehef, I maan the endiscrimmate appropuation of grounds for burying the dead I have counted 150, and some of my acquantances say there is as many more, of these elerntions of grounds, catled taktas, in and about Benates, and as the poor do not mind to bury the dead deeper than they thuik it necessary, a few years' rans expose them to the action of the atmospheric heat and air The mealculable mis-
chief which such an exposure might be productive of, cat be known ouly to those who have witneased the raprity with which decompontion of animal matter takes place under an Indran sun of April and May Were I to deal widely in hypothessis I might with every plausible reason attribute the occurrence of eptceme cholera to this sotree Effuvia from putrid dead bodies (emanatiog from the burtal grounds from acedental causes) under favourable circumstances, bas been known even in Earope to nearly depopalate a number of vilages, and that in India it will produce simitar effects, but of an aggravated nature, is matter of no surprise
"A feature of Indian society, not less deplorable, is that ment oned by Nulmoncy Dutt, in explanation of the excessive mortality in the Pooree Dispensary --
' 'This mortalay, as occurring in a well appointed public astrtution, is at first sight appalling, but when it is considered that the admissions are principally pilgrims to the shrine of Juggeronuth, who are lifted from the road-side in a dying state, such a ratio of deaths so treated cannot occasion surprise, and is no wise attributable to mismanagement on the part of the dispensaly officers?
"The Agra returns contain interesting notes by both the European and the native officers, and the following observations on the use of dispensaries, by Omachurn Set, are weil worthy of perusal -
"' 1 an glad to observe that the bencfits of the dispengary are " 'Augist 91842 better known and appreciated among the people than they were formerly On reference, however to the monthly returns, it would be found that the surgicul ciseases predominate vustly over the medical onos, a curcumatane provig clearly the greater confidence they place in our treatment of the former than that of the latter classes of diseases srill it is not uncommon to find even the most respectable natives to have recourse to tus for the treatment of roedreal complants when the Hakeens faled in curng or affording the rekef sought for Those who bave never used any European medicue seem to entertan a deadly dread of then strong action, and are not moltned to take them (though they might not have any objection on the score of relggon), If they could afford to buy from the Hakeems slopp the ordinary native medicines, which are said to be mitd, and often perbaps too mild in their action, though usually grateful to the palate The sick poor, however, seem to place an unbounded confidence to our treatment of both medical and surgical disease; This is to be attrbuted partly to therr being unable to purchase the native medicues from the Hakeems, panty to their bemg much less influenced by relgious prejudices, which exerctse so powerful a tone of authority over the thunghts and actions of the higher classes, but I belteve, in a great measure, to the past expeftence they have had of the benefits of the European plan of treatment smee the establishment of the dispensary The state of notortety to wheh the dispensary has ulready been brought into stice its commencement wouid, it is to le hoped, nork its way on the scruples and prejudices of many, wheb are still forming so formodable an obstacle to a more extenssve distribution of medical relief
"Surgeon Shaw, at Agra, observes -
"' The spason I consuler to have been particularly beaithy there fias been no eprdemic -measles previnied to some extent, but was of a mild character sad seldom proved fatal At one ume small-pox was sadd to be in the city, but did notextend tow ards the muddle and end of the hot winds intermattent and remitent fevers assumed rather a formidable aspect, and cartued many to their long homes The additions to thu list of applications for relief were not much increased by it Those for local and surgeral diseases were much more extensive than for medical, although there was a very faur show of the later The advantages derived from surgery are much eatier detunsthated than those from medieme, and conie more rendly withe the scope of a native s compreheason'
" With reference to the obstacles to then acceptance of relief presented by the babits mod custons of the natives, he adds -
"Besides, a natne is by no means given to follow the post hoc ergo propter hoc belief as far as regards cure by European medicine, however he might be induced to follow it after the charms and acnatations of the Habeem There is, however, another reason wheh mfuences them A native when ill has a great disnachation to be removed from bis house He cannot cook his own food or watt upon himself His caste acts as a bar to has being wated on by strangers, and therefore if he moves must necessarily briog along whit him one or more of his relations, thes, of course, is a senous ewil to bis household, and he prefers lingering on in has disease to seeking a cure at a distance To this may be added the prejudices which already exist in his mind in favour of his native remedies In most surgical diseases these objections do not exist. It is prineipally the poorer class of natues that fiock to this charity for relsef, and to them it is more satisfactory to afford it They seek it with audity, and recerve the benefits with suncere thankfulness It is, however, not mfrequent for the better classes to apply, especially when their own remedies have fated '
"، Dratnage - Calcutta -Roads, Streets, and Drans -While attempting to trace up by the increased prevalence of particular diseases in certan localites, to the nusances therein located, with a view for their ultunate removal, we should not overlook a subject that is intmately connected with the health and confort of the tnhabitants of the suburbs in general and perhaps of the city itself I allude here to the bad state of the roads, streets, and drans throughout the suburbs, but more especially of those that are th the some lines with the prevalent winds There can be no doubt that these at present exercise a constderable snfuence on the puble heahih of the suburba, and that an improvement on the former will be followed by a better enjoyment of the latter But it is too achl known to bo here adverted to, that our mefusstl coads and streets are very badly off, both as to their construction and cleanliness and the drans here, anstead of serving the purposes for which they were constructed serie chefly 25 reservours for filth and water, sud thus generate thove unseen particles termed malara These with the dust from the roads are carfied off th the atmosphere, and convejed through it by the prevalent winds northwards during one half gear to the coly, and southward to the district during the other, and this become the fertule sourees of disease in both Hence the importance of poyng more attention to the subject cannot be too strongly urged to the notice of those that have the pullic management of them *

$$
\text { ; Gyah, Feb } 11845
$$

" : Food of the Natives - The number of deatis that we had this year from diarrbeen is accoumed for by the people of this country living chuefly on Sattoo, parched gram, ? coarse hand of flour, and other indrgestible vegetable food, wheh by continued use, exettea km of chrome mitation in the stomach and intestines, producing symptoms of d, spepsan and diarrhcea, wheh the poor people neglect ull they are unable to go on T thout medical assist nice, then they cone to the hospital with the disease far too adis meed and with cedema of ther extremities, and at that the medicines can do very hittle for them
"'Sliamachurn Sircar,
" Sub Asswtant Surgeons " • Patna

- The prevailing complants were fevert, spleen, diarrhoea, dysentery, \&c The native metheal officer oberves that, "bowel complants in this distret of the country
 witer they drinh, than upon climate. Cholera he report, had raged in the chly with voluare during the months of May, June, and Jaly last The surgical operations perforined by hon have been numerous
"'Rim Eshur Awastime
" Hhs series of extracts shows that the young men did not confine themselves to the mure meehancal performance of ther professional duties, but that they

\author{

* Observations on Dratage <br> 3 H
}
took comprehenstwe mews of the means of makang their own knowledge more generally useful, and they have advanced their reputation and the good of the state by so doing
"There are returns of vaccmation and cholera treated in the citaes and dustricts
"Luchnow Hosptal - The King of Luck now, in imitation of the liberalits of the Company's government, estabhshed in Onde a chantable hospital for the sick
"Calcutta Hospital - The Calcutta Hospital is entirely independeat of the dispensaries premously noticed, and with its dependent dispensames relieres annaally an amazigg amount of suffering The retura is-

| 1848 | 1843 | 1848 | 1898 |
| :---: | :---: | :---: | :---: |
|  | number <br> 307112 | $\begin{aligned} & \text { rupees } \\ & 403338 \end{aligned}$ | $\begin{gathered} \text { гиреен } \\ -419,338 \\ \hline \end{gathered}$ |

"Wuth one or two words on the estimation of the character and abintes of these sub-assistant surgeons by their superiors, as trpical of theirgeneral estimathon, I close my notices of Bengal
"Mr Macinture says of Shamachum Dutt,-

- Janaty $\$ 11845$
$\omega$ 'To the foregong report 1 have onlif to add, that the general and professional conduct of sub assistant surveon Shamachurn Dutt continues such as to mert the highest comraeadation which it is my mower to bestow He is respected not only by euch Europens as know hum, but by all classes of his countrymen in and about Jobbulpore, whose confidence in hum as a medical praccitoner is mereasing is a vem pleasing manner considengg therr gaorance superstitions, and deeply-rooted prejudices In fact, the institution under his professional charge has turned out to be a real blessing to the native population of this part of the country

> "r (Signed)

J Micintime
"'Czad Assistant-Surgeon, and Superwiteydent of Gon ernment Dispensary, " ' Jubbulpore
${ }^{6}$ And Dr Caraberland could show his confidence no further than by putting humself into the hands of Nimoney Dutt, to be killed or cured, as he relates in the half-yearly report of the govermment dispensary at Pooree, Febnuary to July, 1841, from which the following are extracts -
" A scarcty of grain has prevarled for many months past, und the same still conunves, although the diseave has ceased
" 'There can be no doubt, however that the scarcity has been the chief cause of the excessive mortality attending the disease The gran that the poorer class of people consume as of a very coarsexand inferior qualth, and they eked out a scinty meal of this, with such indigestible berbs and roots, that they do not eat at other tromes The arritable state of me metestinal canal thus moluced, rendered them peculiarly finble to an attach of cholera, whale tiee debilty attendant on long continued poor diet rendered them ill able to bear up agmenst the disease
" 'Sulassistant sargeon Baboo Nilmoney Datt jomed on the 17th of May last Hts conduce bas been yery good in tvery respect Whit regard to his qualification 1 cannot say more than that I morrusted myself with confidence to bus eare, when hibouring onder
an attack of balious remitent fever and have every reason to be satisfied with has prompt and judicious treatment The concluct of the two apprentices still contmues to merit my wamest approval They have lately had many trying scenes to encounter, particularly uhen there were 140 patents in hospital at once, most of them suffering from cholera These youths were constantly in atteudance, boik night ana
for weeks togetber
a Cumbebland
"' Poarce, Augtst 1, 1841'
"Little can be said for Madras, but the followng extract from a public letter to Fort St George, however, shows that dispensartes were authorised by the Court of Durectors
" December 8 I841
"r We sanction the formation of dispensaries in the towns of Trichinopoly, Madurs, Masulipatum, Nellore, Bellary, and Cuddapa, as an expermental measure, th ibe manaer proposed, but we desire that no others may be established, until we are mformed of the expense, and are satisfied with the results of those now sanctioned
" ' On the establishment of these bospitals ample opportumty of instruction should be afforded to such native, students of medicme as may be in a condation to avarl themselves of such an adrantage'
"Duspersaries subsequently azthorsed - One on the south sode of Madras, for the benefit of the poorer classes of the mhabitants of Triplicane, Royapettah, St. Thome, and the adjomang villages, also at Salem, Calicut, Vizagapatam, and Kurnaul
"In Bombay the dispensanes are under the European medical officer, and not, as in Bergal, under a sub assistant surgeon The Bombry system is adopted at Madras, the judge and magistrate to allot a public buildng or to hire one Not nndiscrimhately open to every patient The native inhabitants with the ordinary diseases not to be admitted as in-patients, but accessible for advice and medicine to all out-patients European superntendent to have fifty rupees per mensem Each dispensary to have ten barrack cots, mattrasses, pillows, and twenty quilts Each to have a second dresser or assistant To be inspected by the magistrates and supenntendang surgeons When females apply, a separate ward to be allotted to them

## "There are not any returns from Bombay

"In conclusion, it has been contemptuously said, and is still sard, that in case the Company's government in Inda were swept away, not a monument of its existence would reman to attest its former state and power No doubt the governments that have preceded the British in India have left sufficient proofs of their existence The early Buddhist and Hindoo authorities have, indeed, left prodigious monuments of their wealth, of then power, of their perseverance, and of their religious enthusiasm, in their mighty cave temples and wast religious edifices The Mahomedans, too, have studded the land with therr magnficent: mausolea, testifying rather to theur pride than their prety And what have the Bratwsh done? I say we have rased greater and more lasting monuments than all these One small extract from a report of a native sub assistant surgeon, Chi mun Lall, shall justafy my assertion, he says -

$$
3.2
$$

"' One boy, about twelve years of age, who had been bhad from calaract in both eyes from the age of two years, was operated on by couching, and revtored to sight *
"I affim that this faculty, given to a single native, to perform the god luke office of restoring the blud of his countrymen to sught, is a more glonous monument than all the works of art that human pride or buman ambition have ever burdened the earth with, but when we find scores of such individuals endowed whit such a faculty, and thousands, nay, tens of thousands, possibly the rectptents of the blessings they can confer-when we find the medical boards of the Bengal government reporting to government on the 22nd of August, 1843-
"; We have every reason to believe that the benevolent mention of govermment in founding these institutions has been fully realised-and we feel confident that future annual results will add to the intrinsic value of the dispensanes, which are so well adapted by thear internal economy to obtan the confidence of the native mhabitants.
"Many have had ther sight reatored-others have beeu cured of hydrocele-and reheved when in the last stage of dropsy Several have also derived effectual relief from the successful operation for stone in the bladder A few have been sased from a miserable death by the amputation of diseased members, and large tumours bave been removed
"' Such operations could not have been acheved bv native practitioner", wthout producing an mprecsion on the minds of the most apathetre natises, and they must tend to spread far and wide the value of the government dispensaries*
"Then, I say, and with a thorough conviction of the truth of my assertion, in case the seeds of knowledge we bave thus sown fructify to a general and luxuriant harvest, that we shall have left a monument with which those of Ashoha, Chundra Goopta, and Shah Jehan, or any other Indian potentate, sinh into insignificance, and therr names shall fall on men s ears unheeded, while those of Auckland, as projector, and of Goodeve, and Mouatt, and others, as zealous promoters of scientific native medical education, shall remam embalmed in the memory of a grateful Indian postenty "-Colonel Sykes' Report

## PRODUOTS OF LADIA

Tue climates, soils, minerals, and forests of India, with the most ample means of armgang and otherwise fertilsing grounds when exbausted, and the abundance, and consequent cheapness of labour, are such as ought to render the vast magnificent regions extending from the Humalayas to Cape Comornn, as rich and productive in proportion to the whole area of this empre as any portion of the norld's surface

The quantity and value of the products of labour in Inda mill appear of great magnitude by mere reference to the statistical tables which we have given But both quantity and value are lamentably deficient, when compared with the number of the population and the extent of cultupated and cultavable soll

If, for example, we take merely a cursory view of the produce of agneultural labour in the United States of Amenca, with 18,000,000 mhabitants, of whom so very great a number follow countless other occupations than that of cul-

11sanng the soll, and then turn to the more than $100,000,000$ inhabitants of Inda, who are chiefly engaged in agriculture, the quantity and value of the products yelded by the cultivated soils of the latter will then appear deplorably beneath those produced by the shill, energy, and industry of the cultivators of the North American sols

To what causes are we to attribute this disproportionate difference with regard to, chrefy the exportable products of India, where the wages of labour are, almost intmitely, lower than even slave labour in the United States? We may presume to attribute the reality of the deficient exportable products of India, not to the soll or chmate, nor to the want of abundant and cheap labour, but to various other causes

Firet - To, in a great degree, the natural dispositions, hereditary customs, tramung, castes, laws, and local circumstances of the Indian races

Secovdly -To the stationary condition of the mhabitants for many centaries in the arts and sciences, and of the mechancal applances in and of labour, whether in agroculture or in manufactures

Thirdey - To the generally frugal and temperate habits of the Hindoos, whose actual necessities are hmited to the sumplest and cheapest food

Fovethly -In a considerable degree, but not by any means to the great extent generally beheved, to the ancient and prevaling systern of taxation m India

There are many other local and minor causes, but the foregoing are quite suffictent to account for the radeness of all agncultural implements, -the general "want of roads, the deficient products of the sonl, and the amperfect preparations of those products for the markets of the world, and particularly for the markits of Europe, especially of those products, such as cotton nool, with which the crops of America compete so triumphantly as raw materials for manufacture

A full examination of the principal causes which impede the development of the alnost mexhaustible resources of Inda, is far bey ond the scope of this work, -and we need only remark, that the Butish Parhament will, most assu redlv, when the East Indıa Company's charter must, in a short period, be fully reconsidered, insist, before that charter is renewed, upon the following points in the future policy of Inda being thorouglly carried into effect

Fikst-Adopting, with the most practically effective means and without delav, measures fon opening commumcations, especially by ralways, over the interior of Inda, in order to carry the products of the sol cheaply to markets, and the manafiactured articles imported to the places of use, or consumption, whin the different presidencies, meluding the dependent atites*

Secovd -A general revision of the whole system of taxation, meludug the

[^3]abolition of monopolies and all differential customs' duties, and of daties between one presidency or state and another presidency or state in Inda.

Third-Adopting means for introducing and using the best agricultaral umplements over all parts of India, and

Fourth - Abolshngg as speedly as can be effected whthoat bloodshed and violence, and with reasonably equitable compensation, the impotent, but still oppressive remnants of native governments, in order to establish one general muld and yust, yet firm and effictent government over all India.

Haying very great confidence in the practical views of the East Ladia Durectors, we beheve that they will apply ther energetic attention to those great objects which are required by the whole condition of the Indan empure, and that they will all be fully in progress before the expiration of a charter, the non renewal of which we should deplore The first three are at the present tume conisdered part of the Indian system embraced in the adrumstration of the directors, and events will render the fourth an mperative course of policy

With these remarks we will conclude, by introducing the following statistical views and tables of the princapal articles whuch are grown in, and exported from, India For the statistics and prices of eereaka we are indebted to Calonel Sykes The tabular account of cotton, \&ce, are from official retarns.

In agriculture, with the exception of the extension of growing opaum, madigo, and the sugar-cane, India appears to have, in skill and production, remaned stathonary for more than two centunes In the growth of some articles, especially cotton, it hae retrograded

Great undustry is, by necessity, practused by those people who inhabit the acchivites of the Himalaya chan They cut into the very faces of the steep aecivities, and mountans are formed minto a succession of terraces, whth parapets to keep the soul from crumbling or being washed down, and to retam the waters requred for umgation Mannal labour is alone used. They rause on these terraces sufficient gram to support them

Descending to the plans and valleys, and amudst the zemindaries, the modes of agraculture frequently vary, but, in all, radeness seems to prevaul, and the cultwators are sulyected to various deductions

Mr Johnstone, in his articles on the agoiculture of Hindostan, remarking on the state of the zemindaries aud the condition of the ryots, observes, ss we be heve, with undue severity-
"For some tume after the Britısh became masters of Bengal and Behar, the raising of the revenue was left in the bands of the native zemindars These mat on an appointed day annually, for the purpose of setthing the Buadobust, or rents and leases, for the following year Tbe zemindaries (toprographical divisions of the land so called) were exposed to public auction, and let to the highest budden

[^4]Such competition, at first sight, appears equitable, and certanly favourabile to the government treasury, but it was soon found to insure run to the ryots as wall as to the zemmdars themselves, and, consequently, eventually to dminich, or almost ammblate the revenue
' I shall not follow the zemindary system through its innumerable shades of vanation, for it is in prineple the same from Cape Comorin to the Himalayah, but I will merely towch, in outhine the system pursued in one district
"Let the nerghbourhood of Benares be the example There each remindary is subjected to the following officens -
"The Zemindar, who, in addition to the rent he exacts, is entitled to perqursites and privileges too numerous to particularise, for instance, every artisan works for him at a less price than for the tenants of the land within the zemin dary, and he extorts involuntary benevolences from the cultivators at cer'ain seasons
"The person next in rank is the Putwart, the factor, or keeper of accounts between the propnetor and tenants he collects the rents, whether pud in grain or money, measures the ground, and, in the absence of the zemindar, presides as a judicitor of the petty differences among the tenants The farmer, or ryot, favs this officer s salary, his due being a seer and a half of grain for every hundred seers paid to the zemindar* For sugar, cotton, \&c, not consumed on the estate, a certain portion of their price is pard to the zemindar, and for each rupreet pad to him, the putwan recerves half an anna, or about one-thrieth
"Next to the putwan is the Byah, on gram weigher, who divides the gran betrean the zemindar and the tenant by weight He is paid by botly partics, st the rate of twelve seers for every hundred maunds weighed $\ddagger$
"Where there are such efficers, all able to fav our or to oppress the cultivaton, and all natives of a coantry where morainty 19 at the lowest possible ebb, it is needless to observe that bribery is rife But, admitting that by the assistance of such petty corruption the ryot is able to pay a fow maunds of gian less than are the remindar's legal right, yet still the heav exaction which they thus pay, and the contributions they have to make annually to the smith, carpenter, and other artisans of the zemmdary, independent of paying for exeh job, accumulate int 7 such a large aggregate, that little more is left than suffices for the bare support of the cultivator
-A system better contried strenuoucly to depress the farmer, and consequently to present the improvement of agriculture, the ingenuity of man could not well deruse
" The village Brahmmeal priest is another of the drans upon the Hmdoo culthe ator As each crop as collected in, the functionary is sent for to bless the
heap, for which he receives as his part one measure of the gram in the fan, or implement used in winnowing it *
"There are grants existing, creating Tralooks, or districts, which the holder, or Talookdar, obtamed bv purchase, or as a reward, and emponenng hirn to pay at once to the treasury, others conveying the lands to be held as Altumgha, hereditary, and exempt from contribution to the revenue, and a third in which the revenues were devoted to rehgous purposes ('Assatic Researches,' 11 ) bat these are so rare that they deserve no more than this transient notice
"The system almost unversally obtaining, was that wheh allotted the possessory right of lands varyung in extent from ten to thaty Enghsh acres, to the ryots, or terre-tenants These they held under a lense, or pottah, conditioned to pay a certain rent, generally in gram, and varying in amount from one fourth to one half of the annual produce Such rent constituting the revenue of every sovereign, was collected by means of zemindars, who were nether more nor less than local revenue officers appointed by an officoal woting minutely detaling their dutaes But in all, the zemindars collected the revenue ansing from the land, with the duty superadded of being judges of the disputes and offences accruing within their districts $\dagger$
" It does not alter the chatacter of the appomntment or the interest taken by the zemindar, that it was usually renewed to his heir, because such heir could not eater upon his office or perfora its daties until he had recesved the zemundary sumud, or offeral appontment, and this was m general not obtanned without

[^5][^6]heavy payments to superior officers, which will be viewed as legitimate fees by some, but by others as bribes to be re extorted from the miserable ryots
"The 'Institutes of Timour,' the founder of the Mogul Empire, direct the cultivators of the soll to be protected, wisely assigning as a reason, 'that the ruin of the subject causes the imperial revenues to diminish; and the same policy is recommended in the more modern roval dictates of the Ayren Acbery, but these were only theoretical views of the court and theie was no trace of their spint in practice The zemandar was directed to be checked by the canongo and tharkar, other officials attached to hes zemmdary, but in practice they only moreased the number of those who preyed upon the ryots
"By giving the perpetual propnetary to the zemindar, the power, the uncon trolled and bereditary power, to continue has oppressions has been conferred It us true that the ryot has also the hereditary right of occupancy, but there is no sufficient security to him that the zemindar shall not impoverish, or even force him to abandon his land, by increased exactions, whenever pique or necessity shall suggest the oppression This is not what was untended bv Marquis Cornwalis, for he replied to an objection of Mr Shore (âterwards Lord Teignmouth), - If you mean that after having dechated the zemindar proprietor of the soll, in order to be consistent, we have no nght to prevent his imposing new abooabs, or taxes, on the lands in cultivation, I must differ from you m opinion, -umless we suppose the ryots to be the absolute slaves of the zemindars, every biggah of land possessed by them must have been cultivated under an express or imphed agreement, that a certan sum should be paid for each biggah of produce, and no more Esery abaoab, or tax, imposed by a zemindar above that sum is not only a breach of that agreement, but a direct violation of the established laws of the country The cultivator has in such case an undoubted right to apply to government for the protection of his property, and the government as at all times bound to afford hum redress'
"The intention to protect the ryot is manifest, but that the intention has been ineffective, that the legal institutions have not been sufficiently protective, and that agriculture and the revenue have consequently dechned, are notorious facts*
"The poverty of the native ryot $\dagger$ is so extreme that he cannot afford in most nastances, to fatten even poultry for the market, much less sheep $\ddagger$ or oxen The money to be advanced for their food is beyond his means, and even supposing he has the mdustry and foresight to suggest and sustam the attempt, in the far greater majority of instances he must be checked by being unable to purchase the gram necessury for the anmal, or to risk what would sustan his family for months on the distant promise of receiving it again with an increase-a promuse

[^7]so lable to be frustrated by the rapacity of his lendiord, and the uncertanty of his tenure
"It would not be diffenit to demonstrate that all the obstacles to mprovement wheh have been enumerated-even the want of capital-arise mmediately or remotely from one souree-national gnorance, and the late Lord W Bentinck was never more correct thon when he said, that for all the evils of the Indian sys-tem-the poverty, inferionity, and degradation to which $2 t$ gives rise- - knowledge, knowledge, hnowledge as the universal cure
"Lord Willam Bentinck has recorded his opmon in favour of establishing small farms throughout the provinces of India, as semmanes, or rather as examples of improved modes of culuvation they would afford not only illustrations of what can be effected by an improved system of farming, but also be the nursenes from whence the seeds and plants of better vareties might be diffused "

In the year 1820, the Agricultural and Horticultural Society of Inda was instrtuted at Calcuta It has sance then become useful and prosperous It bas a valuable and rapidy mereasing hbrary and muscum * There are, also, several provincial soctetres

[^8]There is an Agricuiltural and Horticultural Soclety at Madras, and one also at Bombay

## CERAIAA OF INDIA

## Oats (Avena sativa) - About Allahabad oats are called bilatee jou, foreign

 barleyKinds - Disfricts - Only one kind $1 s$ grown bere, and thas chuefly in Bebar and the North-Western Provinces
sar very much resembling the kino of the butea frondosa, of a beautitul lake colour and the other the gum of the bahera tree

Leutemant hitioe, who presents these to the Society states that the leaf of the tree whence the pasal is obtaned ; thlds a yellow dye as well as the chups of the wood Tise Batera tre $e^{*}$ yelds an immense quantity of gum which appears in quaity to resemble the ordinary gum Senegal of commerce and is largely partaken of by tire Chooars and Coles as food It could be col leeted Lieutenant hittoe states, to turge quantues in the Midnaporeforesto The Peear suotiver tree of these parts yelds a very hard adhesse gum of a clear white colour, and there are several gizantic creepers that also yieh gum In the passes there are many fine Saul timber trees, and the meonntan ash thrives well, and is mach esteemed by the natives for banghes bows ve kic Lbouy abo is pientiful and there ts a powerfilly aromatic grass resembliug the famous grass on of Mhow The country (Upper Baumumghalt) wonld do well for any kiod of cultnation

A smaill bule of Egyptan cotton brought from Alexandra-presented by Colond Frith
The plant and nbre of the Moagah -presented by Mr DW H Speed
The thbe is a good deal used by tive natives aud appeared on examination to be the Sansevera Zeyltrica of Roxburgh Mr Speed found that it was prepared from the leaves whels wese grudualiy beat ether afier or withoul soakiog manter On testang the strength of a sumge bibre Mr speed found shat the thacher bore seven ounces while the fine broke at five ounces The juice of the root of the plant is esteemed in fevers by the Hukeems

Mioute specitenen of Chiga nankeen cottou and Beerbhooar brown cotton-presented by Mr J w Laidlay

Mr Ladiny in a reeent visut to the stratts, has been able to obtain some seeds direct from China of the Narbeen cotton plant, and is now engaged in experiments upon the usefutness of this varnely of the plant in the climate of Bengal. The brown cotton of Beerbhoom, of whad Mir Latdlay furbishes the sample is the mingenous sort that be is $m \times 1$ ous to supersedic

Rine Brazil yams brought to Indin ta the ship Alkerton--presented by Mr Bellars
Mr Beclarrs has tasted a part of the supply and hnding them very supertor to whiret Beugal furnsthes he chought they mught be worth the acceptance of the sectety

Dr Spf mentioned, that he had lost no tume in formardule a monety of the supply to the numery and destributing the remander where attebtion was hikely to be paid to their culivation

7no apricos (m spiris) groun at Rarripore-presented by Mr R $\$$ Homfray
A bundle of fibre prepared from the plantan tree and a smail quantity of hemp from the aloe caf-presented by Mr Nichael Betts

In has note "wheds accompansed bis present, Mr Betts states that having been atiracted by a reroark in the "London Price Carient, of the 2nd of Decenber last from the respectable ho:sse of Messers Yry Grifith and Co that considerahle suppliec of a new sort of hemp trom the stails of the plantan tree had realised from Gd to Bd per it he turned bis atention to at and endeavoured to prepare the article but the process he adopted was very glow and he thoustht that if nould not aniswer Mr Betis ngks for mily suggcstions that the socity might be alse to offer and it was inentioned that the modi of prepanng the fibre in Mamila as described it the frost wolume of the 'Transertions of the Sucety mught be recommended

Apricor cherry melons cabbage clover (two sorts) almonds cy rense quace and Clena aster seeds from Afthanistan-presented by Colonel Simsth

Colonel Sonth fears that few of the will grow in a Bengal chmate the rams bemp so heavy Ni emutch and dhow are be timaks the fincst chasates for ace hmatime coid coustry plants in, and consulito it a pity there is not a hortethural ganden ar the se shanons

A $\log$ of oais walout, and cedar (deodar) from the Himalayas - presented by Captata Cane

Plant stem flower ated bark of the paper plant of Nepanil, calied in the luggange of the conntry Datercoon or Darreon (cowa belag for a mee) from the hillo about Darjaliug-presenturd b) Dt Peatsod, cliful aurgeon at Datgelung

[^9]312

Squl-The soll which grows the best oats is a light loam, or chur land, that has been subjected to mundation

Seed-It is difficult to get unmixed seed, or seed that is free from admixture of barley or other gian The quantity to each biggah of 14,400 square feet

Dr Spry in submiting this specimen to the meeting mentioned that a full desenption of this plank, wheb is the Daptine Cannabioas of Lawferre and D Odorata of 7 humberg has been fully described by Dr Wallich, in the thutecnth volume of the "Asnatic Reearches, and ss the identeal plant whence the almost mperithable paper of Nepnul (the particulars of which, by Mr Hodgson and Dr Camphell are to be found recorded in the fifth volume of the eTransactions of the Socety") is prepared. The flower is full of odour and much resembles the jessamine in smell A. aketch of the platit on Nepanl paper is to be found in Dr Wailich s description For ats fibre, too, the plant would secm to be well worthy atteation

Seeds and corbs of various kinds from the hills adout Darjeling
Dr Pearson who forwards these as a contribution from che Darjeling Plantation Saciety mentions that there are at least, three if not four sorts of oak at Daijehng One an immense tree, aftording a dark mottled timber, in appearance much like the Engligls heart of oak, from forty to sixty feet loag and sux or seven feet in drameter or eveu large oull One sort is what is called
 feet loug, but Dr Pearson has not seen any that are more iban two feet and a half, or three feet at most, in dameter The wood is clase-graned, reddish brown in colour and mottled and exceedingly tough though easily spht It makes excellent toolhandles superior, adeed to ashinself and would Dr Pearson considers, be valuable for gun carriages for, although it splits readily yet it wa tough strong wood and does not fly in sphinters besides warpung less, and heing less affected by the weather tinan any wood with which Dr Peazson as acquainted

Some of the seeds forwarded are reported by Dr Pearson to afford flowers of a dehcious fragrance one resembles a myrtle-a second a cherry-a thard, a chestnut-a fourth a large tree, having a broad leaf and most beantiful flower which hange in clasters, and varses in shades of colour from deep erimson to hight sarlet-a fiftb are the seeds of a large, tall, and very beautuftl tree, having a leaf and wood which is very like the bolly-and a suxth, is the Geelah $f$ Dr Pearson further stated that the consignment of plants sent by the Society to the Darjeling Garden, rached for the most part safe and in tolerable good order A second supply of vioes currant, apple and pear-trees, from the Cape sent up by Mr Bruce, reached in such excellent condition that Dr Penrson is anxious to give the particalars of packing It appears the plants trere packed in a long ten case with a quantity of reddish earth around them quile wet, so much so that, at first view Dr Pearson thought them rotten but on examination found all to be alive and sone to be budding Some plants sent fron Ainerica which were packed amidst dry moss without earth and in tio cases teached in a dead state The Darjeling garden is getting on better Dr Pearson statea, than could be expected Enghsh potatoes and hive hees are much wanted at Darjelng

Specmens of ganger cotton and wald yam produted in the nenghbourhood of Darjeling, and collected m the vallevs by the Lepchas presented by Dr Pearson who mentions in tus note that the yam plant is a creeper having a leaf much like a pawa leaf but twice the size at the root of which the yam is found at a depth of from three to four or five, sod even six feet It is quate uneulcivated even self sown yet of a flavour and whitegess far surpassing that of the vam ot the plans some specmens are, however of a pentish purple bue Dr Camplell and Leventenant Montgomery, from whom these partuculars were obtaned by Dr Pearson saw the pluat growing in abundance on a recent expedtion which they have been making In the Lepcha language, the plant is called Booklt, if Purbrtion Turool and in Bhoteeah Kew

The ginger was pronounced to be a very superior artucle and well worthy of attention The cotton is indifferent.

Tea from the Tipperah $\mathrm{H}_{1}$ lis.
Mr Watt who forwards the leavea, states, that whie on a tonr in the Thpperah Hills last month (Febriniy) his party came on large tructs of trees from whach the leaves sent were takeo and constdernag it to be the tea plant a quantity of the leaves were taken into camp and propared in a rough way by roasting in a fry pan and then nofused in bolung water The resint was considoring the hasty manner is which the article was got up, the anfusion had really a very agreeable favour of ondinaty tea.

The examination of the leaf excited minch curionity among die members present, from the circumstance of such an abundatit supply of tea being found so near home as the Tipperah IInls, and glthough it was difficult, from the leal merely to pronounce whether it belonged to the genus thea or camelia, yet, in point of importance, the diatinction was not hhely to prove of great consideration The fact of the specimen sent mparting the flavour of ordinary tea shows how closely allied these two geoera are
vanes from ten to sisteen seer, and it is generally thrown broadcast, though where the drill is used the crop is better and more even The sowing in in October and November

Cuer atutanum - This is known in England as the chick pea, and is the gram of the Bengallee Enghsh In Hindostanee, chema

The above plant bas purple flowers, but there is a variety characterised by ats petals beng white This is called in Bengallee hablabut, or sadabut

Ihe Lental (accr lens) -This is extensively cultivated in Bengal and the adjoining provinces, being called by the natives musoor

For these leguminous plants the same cultivation is required

> Soll -This ought to be light and dry In general the poorest spots are

Tharteen speamens of wool from various quarters of the globe-submitted by Mr Robert Emith

China aster plants in full bloom-exlubited by Dr Spry
These plants were rased from seed furmshed by Colonel Smyth, of the thrd cavalry when at Cabul The flowers vary in colour Some are white oticrs purgle and one plant is giving double flowers of a delicate peach blossom in colour

Coffee bemp and seeds of the rinatto and sapan treeg-presented by Dr Strong
Dr Strong designs the bukhum or eapon seeds for distribution among members as it forms a prickly good liedge and is a valuable wood for its dye The cofice tris grown by Dr Strong at Rassapuglah and was dried as recommended by the London brokers, without sun and has not the marks and blamistes the sample formeriy sent to Loudon by Dr Strong had which had been dried ipion a masonry foor athd th the sun, wheh canses the berry to erach dries it too much and, in fait aporls it for taste and sale

Fleeces of four sbeep that obtaned the prazes at the last Cattle Exhbition No 1 an amported Mermo ram No 2 a Mermo ram lanb bred in 1839 No 3 a Merino ewe lamb bred in 1839 No 4 a half bred enc lamb by a Merino ran and Patna ewe in 1839 -presented by Mr Gibbon

Six maunds of the Maurtteus pois nore or black bean from the society's mursery
A bse of the pois nore direct from the Manrtivs
Mr Higgon who forwards this present slates that on the island of Manntus these beans are sown in the old cane hiclds and by the thach coverug they afford the fertility of the soil is seetored a two or three years It is of hardy growth and lardly requres any care The beak affurds a cliesp and good nomushment for eathe

It was also stated at the meeting that these beans when young afford an ixcellent disla for the dinaer table aud in thadu tan is an admerable substitute for the broad bean of Carope

A sample of cotion from the thard generation of acclimatea Peruvan plants-presented by Nu W C Hirry

Mr Hurry states that he las no doubt that any quantity required conld be grown in Bengal The plants are remarkabi4 hrge and wood, and bear well $\dagger$

The leaves flowar and frutt of the purple-fristed Granadilla described ip Patt XVI of the Lecjelopredia of Gandenang poes-presented by Major Hood

A machive for seprating cotton from the sced Thes machno was made as an mprovement on the Guzerat Churka it has been mvested by Mr Jobn Potter, of Manchester and differs from the machanc lately sent out to Inda as the iniention of Mr Houldsworth of Glaggow Any number of them can be set in motion by an adequate moving power a bullock could turn twenty or thirty of them That shown to the society is one of scveral lately importcd nimo Calcuta-ex hibited by Onea Potter Esq

A sarmple of blarh peypur, from a garden at Barripore, about sixteen miles fiom Calcuttaprecented by Mr Homfray

This pepper is very good of its kind and the plant whence it is oltaned grows luxurously at Barripose where, it appeare it was introduced some years abo by a gentlemen from the eastward The tre yiclids abundantly and grows without requirag any husbandry Mr Homfray will readily farmsh cattigg to any one desirous of obtanang them

- Cesalpina Sapan -W II S
$\dagger$ This remark concides whth the experience of Mr Quantin at Palmasdeah, near Sook Suagor where the Peruvian cotton seed has improved under acchmitation -W H S
allotted to them, and, as no manure is given, the produce is very small In Mysore Cartetmam 25 often sown alternately whth the cynosurus corocanus

Ploughings, varying from five to enght in number, are given to the land durng the Iast days of August, or early in September

About sixteen seers of chenna are sown per biggah in Poonah and other distncts of westem India Ahout twenty seers are zo employed in Bengal and the neighbourng districts Of the lentul, not more than one fourth so much seed is used, as it is grown conjonntly with other crops

Chenna is sown in drills nine inches apart, but those are at much wider intervals to allow for the other crop The seed is covered in by drawing another furrow with the plough close to the one in which the seed has been inserted

No hoeing or other labour is bestowed upon them The produce is npe in three months atter seed sowing

The crop is drawn up by hand, dred for five or six days in the sunshine, and the aeed is trodden out. In Mysore they stack the crop for a week before they expose it to the sun

Of chenna about six or seven maunds per biggah is an average crop, and of the lentll somewhat less than half that amount

In Bengal, and in the vematy of the Gaeges generally, chenna is the gram usually given to horses, but in Mysore, and other more southern parts of the Pemnsula, it is less generally cultivated, and is used by the natries as food, as also extensively in Bengal, when parched, or separated from the husk like splet peas
' Black Gram (Phaseolus Mox) or Kolaye, is a pulse, when spht, as peas, ut is used as Dall or Doll, the real Dhall being produced by the Cystus cajan It is used as food, but is considered inferior to the green gram, or $P^{\prime}$ mungo the latter is sown abont Poonah in June, and four gallons of seed are sown per acre in Mysore In the North Circars at yields about thirty-fold In Behar, Ne, it is sown araong the mollet crop, about half a seer per biggah and this produces usuvily three or four bushels During the rans, it is sometimes, in the North Circars, sown upon high-lying souls, which do not long retain mosture in excess, but the chief growth is upon race lands, during the cold scason Immediately the rice has been cut, the ground is watered, unless rain occurs, and a slight ploughng given The gram is sown whilst the solk contanues monst, and the harrowng is performed by the and of a bush No futher attention as pard to the crop The coprous dews of the season afford it sufficient morsture In about tuelve weeks from sowng, the reapng takes place

The grain is nutritious and agreeable in flavour The stems are not used as odder, indeed, the cattle usually reject it-sind with those which do not, it is sand to disagree
$P$ radatu8 - In all Southern India, a soil moderately tenacious is preferred,

If not hable by inundation, or low situition, to be troubled by excessive moisture

Sowng and Cultwation - The ploughng in Nysore for this crop, commences about the last week in Februaly, and is repented three tumes between that and the second week of March A second crop is sown about the middle of September If there has not been rann recently, before the first ploughng, the field must be watered The seed is sown about half a bushel per acre, mmediately before the third ploughng, which serves mstead of any other mode of covering the seed The crop is nether manured, watered, nor weeded In the Northern Curcars, and other parts of this side of India, it is generally sown about the close of the rams, early in November, either alone, or with some ctlminiferous plant In Nepaul, they sow twice annually-in May or June, and in August or September It is there often sown, in the months first named, along with Bhutmas It rupens in August or September, and is then pulled up by the roots, and the Bhutmas, which is then only in flower, is allowed to remain in the ground until nipe, in October and November Double crops are not at all general in Nepaul, as they are in the plans-the above two mstances beng almost the only ones in use The summer crop of oond is less productive, but its dal is reckoned of lugher flavour than the autumn one The latter furnishes all of this article used in feediog cattle and horses, and is the only grain given to live stock in Nepaul The after culture of the leguminous crops consssts of repented weedug with the hand-h $2 e$, and their reaping is performed ether by pullung the pods from the standing crop, or by pulling the crop up by the roots and beating out the seed In Mysore, the harvesting is nearly smilar when ripe, the plants are puiled up by the roots, stacked for three days, dried in the sun for two more, and the seed is then trodden out

The seed of this plant is more esteemed than any other pulse, and the straw, on this side of India, is considered a nourishing fordder, but 12 Mysore it is held to be pernicious to catile, and is burnt, or thrown upon the dunghall
$P$ aureus -This is cultivated, like the last named spectes, in Bengal and Nepaul

P lorosus - Seems to be a crop pecubar to Nepaul
P acomtfolus - Is much culuvated in Oude, and in parts of Western India It is sown in June, and harvested in November

P calcaratus-This spectes is culuvated in Mysore Dr Roxburgh says that in the botamic garden at Calcutta it thrives well, continuing in blossom and rpe ung its seed through the year

Gesome (sesamum ortentale) -- This graw is cultrated throughout Inda
The $S$ indtcum of Linneus is only a robust varrety of this species, cultivated at a different season This plant is not unlike hemp, bat the stalh is cleaner and sem transyarent The floner also is so gaudy, that a field in blossom looks hike
a bed $n$ a florst's gaiden, and its aromatic fragrance does not and to dispel such delusion

It fourishes most upon land which is light and fertile The fragrance of the onl is perceptibly weaker when obtained from seed produced on wet, tenacious souls

A gallon of seed seems to be the ustal quantity sown upon an acre In Bengal, the $S$ ortentale is sown during February, and the crop harvested at the end of May, but the $S$ inducum is sown on higb, dry soll, in the early part of the rains of June, and the harvest occurs in September About Poonah it is sown in June, and harvested in November In Nepani two crops are obtanned annually one is sown as a first crop in April and May, and reaped in October and November, the other, as an autumn crop, after the Gohya rice, in August and September, and reaped in November and December*

Cultivation -It is cultivated precisely hike the phaseolus mango
Harvestang - In Mysore, after being cut, it is stacked for a week, then exposed to the sun for three days, but gathered into heaps at might, and between every two days of such drying it is kept a day in the heap By this process the pois burst, and shed their seeds without thrashing

It is cultivated for ths on (the gingeli), which is the one chiefly employed by the matives in their culnary operations The oll as certamly fitted for the purpose by its aromatic savour

The flour is used, after the oil is expressed, in making cakes The straw is consumed as fuel and as a manure $\dagger$

Mustard (Sunaps dechotoma)-This plant is eommonly cultwated near Calcutta, in the twenty-four Pergunnabs

Alluvial soils on the banks of nuvers, or upland solls wbich contann rather more than the usual proportion of allumina, but in either stuation, moderately fertule are best suuted to this crop

The finest crops in Bengal are grown upon the banks of the Ganges When the wateis subaide in October, which is the general time for sowng it, and the surface of the soil deposited sufficiently dry to be starsed into a fine talth, the seed is sown broad cast, and no other pains taken to cover it than by drowng the branch of a tree over the surface

The $S$ ramosa is the only one cultivated at Poorneah as a separate crop, the white seeded being grown with wheat and grann, one seer of seed being sown on a buggah

In Nepaul, much attention is paid to the cultivation of this crop
Use -It is culurated here for the sake of its oul The essental oll, from which anses its pungency an a condment, is so much infertor to that produced in Eng-

[^10]land, that the flour of the Enghsh seed, after the fixed oal has been expressed, is imported into India for domestic use

The potato (solanum tuberosum) produced in Bengal is little inferior in flavour to that grown in England, though the size of cacl tuber aad the weight of crop are smaller*

There is one mportant quality in the potato, pointing out its culture as especially menting encouragement, namely, that a dry season, which is so unfavour able to the rice crop, is beneficial to the potato

Dr Tennant states, "that some years prevous to 1797, a gentleman distributed tro boat-loads of potatoes to supply sets in the neeghbourhood of Cawnpore, and the quantity annually cultavated had gradually continued to morease from that tume"

Colonel Sykes says " wheat is dear in Inda, $\dagger$ in comparison with other grains, which are numerous, and in India wheat forms the food of onlv a small part of the population, and probably seventy or eighty milions of souls live upon grains whose names are scarcely known except to the learned in Europe, but wheh, nevertheless, are productive, nourishing, and wholesome It is equally a mistake to suppose that the people of India live upon nce That grain is very frequently twice the price of wheat (excepting in a few localitres), and can only be used by the masses who dwell in low lands where Nature floods the son perzodically, and where the dbsence of any morked melnation to the country admats of the easy retention of the water Wherever works for irngation are necessary, an en hanced price of the products as the consequence, and in proportion to this enhancement is the limited consumption by the people Rice, therefore, produced by artaficial irrigation, is scarcely within the reach of the lower classes

- The followng are some of the bread gruns produced in Inda and Arabia -Belonging to the Khurreef, or wet season harvest, jowaree, or jondla (holcus sorghum, or andropogan sorghum), is most extensively cultivated Of this
*This remark has reference only to Lower Bengal where the soil abounds with sand, but in Bhugulpore in Poornealt, in Tirthoot \&c I have seen them ; says Mt Speed as largesized as the average in England or Irdand-say three or four to the seer

| $\dagger$ <br> Averages for | BRNCAL wly 1845 for Fims | thres Town | RNGLIN H <br> Averaget November ist 6 Mark Ltape |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Quantity of Whest pmatur blof for tho Rupere of ${ }^{6}$, | Quantity of Filour procurablt for the F isec of 2 s | Quantaty of Dhall proc rablafir the Ruptes of ws | Quaut ty of $\mathbf{x}$ bent inecurnble for the Stme of 25 | Quantaty of fious pr curablif for the Sum of 95 | Quantity of Pear prourruble for U E Sum of 2a |
| About 9Tt po tal or lis bed per quatio: | About 31 pounds |  | Aboot 1 paundsat the ateragemar Est quetasion of 57* per quarter |  | Abrut is peunds at the arorage fun yer y ota tan of SEs tha quarter |

[^11]species there are erght vaneties From a single bead of one vanety (Shaloo), taken at random, I have obtaned 2995 perfect seeds The gran, whach is about the arze of white mustard seed, is sweer, palatable, and nutritive The next nost commonly cultuvated grase is bajra, or suggoora (holcus spicutus, or pameum sprcatum) Under favourable crrcumstances there are from two to eight heads to one stalk, and I have obtanned 2120 seeds from a suggle head, which, in the case of exght heads, would give a return of 16,960 for one. The grain $1 s$ somewhat larger than canary seed The gram is rahle, or kungnee (pancuan Itoheum) There are tro varieties, each stalk generally with one head, giving a return of 1850 for one The ueat gram as bhadlee (pantcum mitaceum) , the plant bas someumes three or four stalks, but each whth one head only The gram beariag pancums, however, are not hmited to these, for so numerous are they in Ceylon, that Moon, in his 'Catalogue of Cejlon plants,' gives Latin names to no less than thurty distanct species Kodroo is the next gran (paspalum frumentaccum), one of its Minratta names is bburtee, in allusion to its extraordinery fertuldy The stalks from one seed vary from four to eleven, but on the edges of a field, where the plants have an opportunity of spreading, I have counted twenty stalks radbating from a single root Each head aperages 1083 seeds, and for the plant with twenty stalks, there would be a return of 21,660 for ane But on the 15th of September, 1825, near Serroor, I counted thrty three heads of grans on a single plant, each head averaging 1860 seeds, giving the astomshing return of 61,380 seeds for one The average of seven heads to a plant would give a return of 7581 for one The grain is the size of a pins head
" Mukkn, or Indinn corn (Zen mayz), comes next It is not usually culisvated as a bread giam, but when neariy rape, the head is fred and eaten with butter or sugar Should the farmer have more than he can consume in this state, the rest is allowed to ripen, and the seed 15 ground anto flour Tbe stalk sometumes reaches the herght of from nue to twelve feet This is the "Indan corn" Whose importation into Engind from America bas so essentally contributed in the late scarcity to reheve the sufferings of the people
"Rice is cultwated wherever physical circumstances are favaurable ta it. It is called dhan or bhat (oryza satua) The natives in Western India consider that there are at least enght or ten species of nee, and very many varieties But Mr Moon, in his 'Catalogue of the Plants of Ceylon,' grves the names of no less than 160 vancties, from the wid nice to the most delicate, each having its Cingalese native name-burd's beak, melon, sprigless, red tare's chin, leafless, White jointed gold, ratton leaved, \&c, \&ce, and each of these names Mr Moon has transhated into English The return in the Deccan is reckoned at about tharty to one A very important grain is natchnee, or ragee (eletssue coratana, or cynosurus conacanus) The grain is much valued by the poor, from th hardrhood, abundant return, wholesonaeness, and cheapness The return is rechoned
at 200 for one Sawa 15 another culivated panieum, but the species is not satisfactonly ascertained The groin wo the size and form of a canasy seed, but blackish, the return about 48 for one Wuree is the last of the bread grains of the khurreef, or wet-season harvest This is said to be the conx barbata It is sraall, of the size, colour, and character of the canary seed, the return, 240 for one The pulses and legumes of the khurreef harvest are too numerous to detal
"Of the rubbee, or spring, or dry-season harvest, the principal bread-gran produce $s s$ wheat, of which there are four varieties, two of which have such pecuhar and permanent characters as to justify their being designated species All the wheats are bearded The first is bukshee, the next kupleh, the third kateh, and the fourth potayal All the vaneties have fiom two to twenty five stalks from the same root, and I have a specimen in my posscssion with twenty-five stalks The first gives a return of about egbty-one for one The kupleh has the hask closely attached to the gram, whence its name Evamining a field on the 20th of February, 1825, 1 found few plants with less than ten stalks, and the grains from some of the heads were mine-twentueths of an inch long, and the louer glumes were treble seeded, ench head averaging fifty eight grains Ths would give a return of 580 fol one, but with twenty five ears the return would be 1450 for one The kateb, so named from the seed terminating in a prickle, or point, gives a return of from 384 to 480 for one, and the potayal, which is a short-bellied gram, whence its name, returns about 210 for one*
" Orburee, or chenna (cueer arsetinum), forms a part of every farmer's cultivation It is a highly valuable pulse, although chiefly given to horses in India as a substitute for oats and barley, it 13 used, nevertheless, by the people in a vanety of ways, as spht peas in Euiope, and when parched, travellers live for days upon it on a journey, it is made into puddings and strábout, and it is even used as a bread-gran, being ground into flour and made into cakes There are four varieties The retarns upon a plant range from filty-egglot up to 170 seeds The gran is about the size of a marrow-fat pea, and in form is like a ram 5 head (whence its name) The shaloo, or jowaree, is that variety or species of holcus, or andropogon, which is sown at the end of the rains, unlike the rest of the varieties, and it belongs therefore to the spring harrest The gian is held in lugh estimation, and as the general food of those of the lower orders who do nut inhabit the mountanous or jangly tiacts It ripens in Fibruary $I$ ascertaned that the average return th one head of the plant was about 1514 seeds for one
" Jau, or jo-barley-(hordeum hezustachon) Barley is not generally culuvated, and is seldon used for biead, but it is necessary in many sacrifical ceremones
of the Hindoos Four varieties are mentioned in Hindoo books" "On the ist of February, 1826," says Colonel Sykes, "I found some fields of barley ripening at Tulleeghur, on a table hind in the Deccan, about 3000 feet above the sea, and in March I met wit', some fields in the desh, or open country, at less than 2000 feet above the sea, latitude 18 deg to 19 deg north, the plants averaging five heads of grain, and giving a return of 240 for one
"Watanib, or muthur (pisum satitum)-peas-are cultivated, bat not so extensteely as gram (cicer) They are used precisely as gram is used, but are not so much esteemed
"Dhall (cytisus cajan) This shrub produces the universal substatate for the split pea of Europe, but it is a much sweeter and more agreeable pulse than the pea"

## PRICES OF CERALIA IN INDIA

We are under great oblugations to Colonel Sykes, for the followng statistical prices \&e, of the grans of India
"The first Price List (see Table I hereafter) gives the average number of seers per rupee of 2 s at seven different marheta in the collectorates of the Deccan, under the Eombay Presideacy, from the years 1827 to 1845, inclusive The grans are wheat, nice, gram bajra, and jowaree In this table the averages are given in the local seers of the markets, for the most embarrassing discrepancies exist is the magosiude of measures of the same denomination even at neghbounong vilages, and this fact should be generally known to prevent misconceptions in regard to the absolute volue of local means of supply I present the table, also, in its present state, to warn the speculator against an entire rehance, even upon a bystem of averages for a beries of years and. partucularly to guard hm aganst a rehance upon the prices of any one year continuing in the following or succeeding vears In fact, the produce of the khurreef harvest is dependent on the continuous but temperate supply of water duriag the monsoon and the crops should be equally removed from the extremes of beng drowned or dred up In the rubbee, or spring, or dry season harvest, the crops are influenced by the amount of dew deposted, and departures from a normal state in all these matters produce the most violent fuctuations in prices For instance, the prices of the kburreef produce at Indapoor fluctuated from $10 \frac{1}{2}$ seers and 18 seers of bajra per rupee, in 1840 and 1932 respectuvely, to 58 seers and 54 seers in the vears 1837 and $\mathbf{I 8 3 8}$ respectively The extreme range between any one gear it any one of the seven markets and any other year sfas, from $15 \frac{1}{2}$ seers at Indapoor, in 1845, to 64 seers at Kulus, in 1828 It with be observed, also, that the prices at the seven markets sometmes difer wulely fion each other in the same year In the produce of the rubleee, or dry-sedson crop, we find wheat varying in price, at Kulas, from 13 seers, in 1845 to 42 seers, in 1837, and at Sewnere, in the same years, from 13 seers to 44 seers The extreme range in the nimeteen years, appears to have been from 12 seers, in the Mawais, or helly tracts, in 1845 , to 44 seers, at Sennere, in 1837 These facts offer sufhctenty tastrucupe lessons and as the frizos used are averages of prices for the year in each mariset the fuctuations within the year, were they known, might exhibit greater discrepancies
"Table IL presents the local seer theasures of No. 1 reduced to Indian seer measures, each seer contaning 14400 granns weaghe avordupors of bajra, whicb, from the untormits and unchangeableness of the seed, is looked upon as the best standard by which to hx the capacty of a natue measure This plata, however, is not so ethicent as one I recommended to the coverament of Bombay twenty years ayo With a vew to insure unformaty in weights and measures throughovt the Deccan, Isuggested that the

Company s rupee should be the multuple, whether for weights or measures and that measures of capacty, whout regard to form, should contan a quannty of water at the ordinary temperature equal to the weight of a prescribed aumber of rupees Thas would have insured suffictent exactness for all practical purposes and the means of testing the accuracs of the weights and merasures would alwas have been avalable tothe collectors and magistrates, and the native names of the divisions would hase beea preserved This simple pian, however, remans to be adopted
"The reduction of the local measures of Table II into Indian measures was effected by Mr Chapman (cisl engineer for the Bombay ralway) and must hwe been a work of mintute labour, as he had to ascentan the exact value of each local seer The annual averages in Indian seers, so reduced were converted by me into avordupons weight, and consequent upon that last conversion the price per quarter English has been determined, and the following are the results -

'It is thus shown that an avernge of years gives 64 lbs 5 oz of wheat for $2 s, 36 \mathrm{lbs}$ 13 az of rice, and $100 \frac{1}{2} \mathrm{lbs}$ of that nutritous grain, jowaree (holcus sorghtum) for $2 s$, a sufficsenc $y$ to support a man for two months at least if the dietary in the prisons of the North Western Provinces and Bengal be taken as a standard In these prisons the daty altowance to a convict is from 1 lb to 2 lb of wheaten four regulated by the mature and duration of the hard labout to which the convict may be condemned But Tribe II shows thit in 1828 the average price of jowaree gave nearly 137 lbs avordupois for $2 s$, so that a man could support hamself for much less than a halfpenay per diem and get fat upon it But if relerence be made to Table No I, it is seen that at Kulus in the sears 1828 and 1843, there were eighty local seers of jowarte per rupee or 49 部 Indan seers, equal to 204 lbs avorrduposs for 2 s or more than 2 lbs for a futhing so that a man could live for less tion a farthong per diem for the cont of mea! In wheat it is seen that the average prices in 1828 and 1836 were $36!$ and 74 Indian seers per rupee equivalent to 74 lbs and $75 \frac{1}{4} \mathrm{bs}$ avoirdupois Tre above brud srams ut auch cheap rates, are whin a moderate distance of the sea-const But Tablus III, HIF" III** carry us furthet aland and the cheapnes is verv mueh greater Tuese tables are from Colonel Sleeman the commissionet of the Singor and Nerbuddah territnfics, and give the prices at seven markets within has commissione tshtp from 1831 to 1810 , melusive, and from 1843 to 1846 , both inclusive but the paces of alieat gram and rice ouly are given In these tables it is shoun that at Bathool in 1843 a, much as 167 lbs wourdupors of what were sold for $2 s$, and at the seren markets enumerated the price varied in the jear onlv from $5 s$ 6d per quarter Ength h to 0881 In succeedng vears the prices were sightily enhanced, but in 1846 timune procss ruled, owing to the fatiure of the monsoon that is to say at Butool the proce of wheat which in $18+3$ was $\overline{5 s} 6 d$ per quarter, became $21 s 8 d$ But the arerane prices of wheat at the sevea mathets for the years $18+3$, 1844 , and 184.5 was is 6$\}$ per quarter, gram sumblh was is $74 d$ per quarter and atae $4 s+4 d$ pur ext fol the un vears preceding, from 1831 to 1840 , the aperage price of whe it inds $10 \times$ od per quatter (Table III**)
'Table Il gives the prices at Hositungubad for vartus pertods apon the unthorty of Colonel Ousels the procepal dastant agent to the cosarnor general Mr Chapman has reduced part of this table to the pnce per tun in iuvers of wheat gram and rice, from the vears 1922 to 1838 , both inciusse The prices are separatels $g$ ven for November the sowng tims and June, the storiog tine Prices are somewhat deafer at acirag time but not matkedis oo The fluetuations mprices in this lony period are less than tright be expected It will suthce to give the masimum and matomuly prices of

Wheat, gram, ond rice, at the sowing or clearest tune In 1826 wheat was 58 the quarter, gram, is 7 d per quarter, and rice 283 lbs for $1 d$, or 3396 lbs for 1 s . or 3 s 3 f d. per $\mathrm{c} w \mathrm{t}$ In 1883 the monsoon fatied, and in 1834 famine prices ruled in consequence Wheal was $23 s$ 10d per quater, gram, $14 s$ 9d per quater, and rice was 146 lbs for $\$ d$, or 1752 fbs for $1 s$, or $685 d$ per ewt. The average prices for these sixteen years, meluding the years of dearth were, wheat, 1088 did per quarter, gram, 78 ild per quarter, and ruce, $4 s$ 7t ${ }^{2} d$ per cwt As I would rather lean to the unfavourable vew of prices than to the fuvourable, 1 shall not give the prices in harvest time
"Table V was supplied by the resident at Nagpoor, Colonel Spies, and contans the accounts of the quantities, nod the price of salt amported mio Nagpoor in 1846, the cost of carrage to and from the coast, and the prices of grains for the years 1843, 1844, and 1845 , but as the moncoon had fasled in all these years, partucularly in the last, fittie use can be made of tha table Nevertheless, wheat in 1843 was $113 \frac{1}{4}$ los for 28 or 8s $7 d$ per quarter, and in 1845 , the scarcity year, 59 多 1 lbs for 28 , or 168 ld per quarter,
 average of the cheapest rice, $59 \frac{1}{7}$ bs for $2 s$ or $3 s 9 d$ percowt, and the dearest $38 \frac{1}{7} \mathrm{lbs}$ for $2 s$, or $5 s$ Ild per awt The cheapast gram, 82 等 $\operatorname{los}$ for $2 s$, or $11 s 8 d$ per quarter, the dearest $58 \frac{4}{4} \mathrm{bs}$ for 2 s , or $16 \mathrm{~s} 4 \frac{1}{d}$ per quarter, and the average 73 a lbs for $2 s$, or 13s 1d per quarter It is seen from Colotel Spiers s mentorandum that the cost of taking cotton or other produce from Nagpoor to Bombav and back is 50 rupees for 7 maunds (about $19 s 5 d$ per ewt), but this is for the double journey, and the single trip, supposing the cart loaded both ways, would cost $9 s 8 \frac{f}{f} d$. per cwt., or above ld per 16 If the cost of carriage be in Nagpoor rupes the above anms are respectucly los $5 d$ and 7 : $8 \frac{1}{2} d$
"Tuble VI gives the prices of rice, wheat sowaree, bajra, and gram, in Goozrat, at the chter of Ahmedabad, Khara, Broach, and Surat, on the 15tb of August, I846 As the prices are only for one year, and that a year of scarcty, they cannot afford any gutde for the usual prices in Goozrat It will suffice to state that the average price of wheat at Ahmedabad, was 276 seess per rupee, ( $55 \frac{1}{2}$ lis ) or 17 s 11 d . per quarter, the cheapest, was 357 seers ( 72 lbs ), and the dearest, 24 seers ( 49 l lbs .), while at Broach the average was ouly 1263 seets ( $25 \frac{3}{3}$ ibs), the lowest price, 1420 seers ( $28+5$ lbs), and the highest 1120 seera ( 23 liss) 7 he sperage pnice ol rice at Ahmedabad $25 \frac{1}{2}$ seers ( 523 lbs ), or 4. $3 d^{2}$ per ewt, gram, $16 \frac{3}{3}$ seers ( $34 \frac{7}{7} \mathrm{lbs}$ ) per rupee, or $28 s$ per quarter, jowaree, $34 \frac{5}{5}$
 per quarter
" Fables VII and VIII give the retail prices respectively at fifty-three and fifty six milutary atatons in the Bengal presidency for the years 1845 and 1846 of bread-siufs, beef, mution, butter, sugar, fowls, \&c These tables labour under great disadvantages, as they do not give the wholesale prices of any article, and are only for two years, and those yeara of comparanve scarcity But even with these disadvantages it is found that oheat in 1845 uveraged 57 lbs 10 og for 2 s , or 16 s 8 d per quarter, the first sort of

 or spht pas 40 lbs 12 oz for $2 s$ or $23 s$ Gd per quarter, flour, 31 Jbs for $2 s$, or $\mathrm{T}^{\mathrm{T}} \mathrm{s}^{\mathrm{j}} \mathrm{J}$ of a penay per ib sugar candy 6 lbs 103 d oz per rupee, or $3 \frac{1}{d} d$ per lb , salt, of the first sort, 20 tbs 9 oa per rupee, or $1 \frac{1}{2} d$ per it or 109 lld per cwt But these averiges would be fallaeious gades were the merehant to allow them to tafluence bis purchases and the retura, therefore, affords a useful lesson, that even averages in sta Lutucs may mislead for instance the average price of rice 2525 lb .7 oz and of the second kind, 45 lbs 4 oz , white at Chitagong, a place accessibje by sea, it is respectively
 is observabie to some other anticles With respect to the price of meat and fowls, it is seen hat bullocks varred in price from 5 rupees, or 10 s per head, at Chunar to 7 rupees 10 annas, ot lâs $6 d$ at Calcutta, and 20 rupees, or 40 s at Allahabat sheep raily from 5 rupees 2 anmat or $10 s 3 A$, at Calcuita, to half a rupee, or $1 s$, at Benares and the ordinary price wuald appear to be about $2 s$ ofd for a sheep Fowls are classed an thrie sorts, and vary in price from two, three, and four at Lucknow, of the respective sorts, per rupee, to twenty of the first and second sort, at Almorah In the retura for
$18+6$ the prices are somewhat enlaneed, but not sufficiently so to render at necessary to go inter detuls

Suet Novopoly - We object to all monopohes, and to all export duties When the opium monopoly is abohshed in India, we would, however, upon fiscal grounds alone consider an export duty on opium justifiable The salt monopoly, though an undoubted evil, nas formerly far more so than since a great reduction of price was made by the Company, and from the following statement of Colonel Sy hes, the oppressive character of this monopoly appears to have been greatly exaggerated -
"Salt *-It has been shown that the average price of the best salt was 20 lbs 9 oz. for 2s varyingat different places trom $5 \frac{16}{} 76$ Cutcuta or 38 s $11 d$ per cwt (refined for European famhes? to $49 \frac{1}{4}$ lbs at Cuttack or $4 s 6 \frac{3}{d} d$ per cow. but it will be recollected that these aze the retail prices of a monopohsed aricle The duty on imnorted salt into India has been twice reduced withon the last three yenrs. On the 18th of October, 18.44 it was ordered by the supreme government to be reduced from 34 rupees ( $686 d$ ) to 3 rupees ( $6 s$ ) per maund of 829 lbs avorduposs On the 31 st of March 1847, it was further reduced to 28 rupees or $5 s 6 d$ per 82 昂 lba . At the prevous period the government store salt in Bengal wns directed to be sold wholesale at prices varying accordtim to the reputation of the salt at the ten places of manolacture + from 306 ruper per 100 maunds ( 8228 . 1hs) of Madras salt to 400 repees for Cutuck salt On the 31 tof March, 1847, the prices were further reduced to 331 rupees and 375 rupees per 100 matuids for the sait of the same places respectivelv, and the government pled yed Hself not to alter thece prices before the 1st of Apni, 1849 It is thus aeen that the wholesale price of the Madras salt was about 25 lbs pps rupee, or $12 \frac{1}{2} \mathrm{Ibs}$ for 18 , or somethang less than $1 d$ per ib and that of Cottack salt about $20 \frac{1}{2}$ libs per rupce At Citcut) therefore the retat price ( $5 \frac{3}{4} \mathrm{lbs}$ ) of the best salt was four tumes that of the aholes ile price and generally in the Bengal provinee, excepting at Cutack and Chut traig where the market retal price wan lower than the government wholesale price (strange on at may appear), the profits to the wholesale purchaser must have been very considerable indeed But in case we look to prises in the North Western Provinces, Bundlecund Malwa and our new ly-acqured provinces beyond the Sutlej in the Punfruh the anomalous and startling fict presents itself that the retal prices, wth few cscertions, are below the wholebale priees in Ber_al showng that theri is a source of suply independent of the government sales For instance, at sixteen stations from Cathta to Allahabad (always excepting Cuttack and Chitagong) the avetage retail price of the best sult is 12 z lbs for $2 s$, a little more than half the wholesale price of Cuttackesalt $20 \frac{1}{2}$ lbs, but beyond the limies of Allahabad, it twenty nine atathos, the Tser we retail price is 234 lbs , whale the swholes ile price at whech Cuttack salt was put up by overnment was only $20 \frac{1}{1}$ bos for $2 s$ Nagpoor is supphed from the western coast of Iudin and on the 30 h of July, 1846 , the price of salt was 30 por rupees per kundee of 611 lb avordupols giving not quite 20 lbs per rupee Nappoor, therefore, could art bue been the channel of supply Bat at Kherr, in the Poona collectorate under thic Bombiy governnient the following are the prices of salt in the respective years -


The avcigee is ne rity 35 Indine seers pur rupee, or 72 lbs avorduposs mostead of sot ibs, as in Ben al, and 20 ths as at Nagpoor or 234 lbs, as in the North-Western

See Remarh on Taxation \&c herlafter

+ $11_{\mathrm{td} \text { silki }}$ Tumbuok, 24 Persurmahs Chitagong Arracan, Kurra, Cuttack, Balasore, Khurdalı Madids

Provinces the western coast no doubt, therefore, supplies Central India and Bundlecund to some extent but the North-Western Provnees are probably supplied from the salt beds of the Punjaub, or from the sols lakes of Ajmere It is right here to state that the salt tax in the North-Western Provinces is lepied as a customs duty only
"Very much has been written regarding the pressure of the salt monopoly upon the people of India, and the above facts and prices afford the means of putung the value of the assertion to a practical test, and for fixing the real portion of a maus wages whech he is compeiled to expend upon salt as a necessary of life In the first place the so called monopoly is confined to Bengal, where the average retal price of the best salt is about $20 \frac{1}{2}$ bibs per rupee Vanous native authoritres concur in stating that a single man consumes one seer of salt ( 14,400 grams) per month, but that a family average about three-quarters of a seer ( 10,800 grans) In the gaols of the North-Western Provinces a convict is allowed 225 grans per diem, wheb, for thirty days, 38450 grains less than halr a seer, and a 250 grains less than one pound apordupars, and it 13 looked upon as ample But taking three-quariers of a seer per head ( 10,800 grams), or even offe seer ( 14,400 grans), the rupees worth of the best salt, which the poor do not consume, would last a rean, in the first case, $13 \frac{1}{3}$ months, and in the second case 10 months, and as the average wages of an egricultural labourer are three rupees, or 6s per month, and all other classes have higher wages, it results that one-third of a month's wages supplies a man's salt for 13$\}$ months, at 10,800 grams, or threequarters of a seer per month, or at the allowance of one seer per month, two shilings worth of salt lasts him ten months, three-quartens of a seer per month costing him about the fourth of a farthing per diem, and one seer costiag a scarcely appreciable fraction more And yet it has been delitherately asserted in prit, for selfish purposes, that a year's salt for a labourer costs ham three monilhs' wages But of the Kherr average price of 35 seers per rupee be used, then 35 seers will last a man 35 months, at a cost of $\mathrm{y}^{7}$ ths of a penny per month, or 0025 of a penny per diem, and a glance at the Tables VII and VIII will show that two shilhngs worth of salt at many places in the North-Western Provinces will last a man from eight to (wentj-lhree months At Calcutta the retan price of os Ibs is 29 (although it is shown the government sell $20 \frac{1}{2}$ lbs to 25 lbs for 26 ), no doubt presses soerely apon a poor man, for a third of a month's wages, or $2 s$, would supply ham with only three months' salt, instead of tharty-five, elghteen, or ten months' salt, as elsewhere but thos must be the price uf refined sait which of coursess nos used by the poor Thas severe pressure, however, exists only in Calcutta, and is to be altributed to the cupdity of the retailers, and not to the government In Bombay, from an invoice of 200 tons of salt in July, 1845 , of Messrs Nicol and Co, sent to Calcutta the cost to them, meluding excise duty of $1 \mathrm{~s} 6 d$ per $82 \frac{1}{\mathrm{f}} \mathrm{lbs}$, and carnage fiom Tanneh to Bombay by water, was $2 s 5 \frac{3}{2} d$ per cwi , there were, therefore, 45 seers or 924 lba for $2 s$, and a thrd of a labourer's monthly wages at 3 rupees per mensem, noudi supply hum whin salt for forty-five months The wholesale price of salt in London vanedi in the years 1844 and 1815 from 37 s (coarse) to 458 (ine) per ton, and to 1846 and 1847 from $35 s$ (coarse) to $47 s$ (itne) per ton
${ }^{4}$ The following table exhbits the final resulis of prices in contrast -

"I annex Messrs Nicol a invoice of salt from Bombay, and for record and consparson add the contract prices of the supples to the East Inda Company's Mibtary College at Addiscombe *
"It now remains to consider whether the prices given of the ctrealia in India offer sufficient mducement to the speculator, in seasons of scarcity in Lurope, to look to India for supplies Prima facte the case is conclusive from the comparatively remarkable ch apness of gram and pulse in India, but the element of the cost of transit from India to England must now be taken into consideration and this will be best done by putting It into juxtaposition with the cost of the freight of wheat from the most distant sources of supply in Europe, namely Odessa and Alexandria The followng statement is from the minmation of a gentleman in Mark Lane, of great experience in the corn trade Another consideration also ts, the loss occasioned by the destruction of the grain by weevils in transit
" ' The price of fine Fohsh Odessa red wheat at Odessa, free on board, in ordinary years, is from $25 s$ to 32 s per quater This corn wetghs from $60 \frac{1}{6}$ ibs to $61 \frac{1}{2} \mathrm{lbs}$ pei tusbel Freghts from Odessa to London are from $6 s 6 d$ to $8 s$ Gd or $9 s$ per quarter The ordinary duration of the voyage is two months This year (1847) some vessels have been four montha on the passage and some only six weeks
": At Alexandra the price in ordinary years is from 18 s to $25 \%$ per quarten free on board, weight 56 lbs to 59 Jbs per bushel freight 68 to $7 s$ per quarter The duration of the voyuge much the same as from Odessa, the prinerpal detention being at the Gut of Gibraltar

- Since thenbute was written Lieut Burke of the Bombay Cngrneers in an offical report to fovernment describs a saperfictal depost of good salt upon the Cutch frontier of Sunde near Lucput Buador capable of supplymg one bunded unilhons of people for above 1600 years at
 Chesture salt put on board ship at Linerpool is i2s per ton
" "The prices would, doubtless, be brought down by plentiful barvests at home, and free access to all the world for wheat
"'It is beheved that the weevn is bred wuhn the grams of the wheat, the eag beng deposited at some period during the formation of the gram, for the insect has often been found in the maddle of grains which were on the outside perfectly sound After the insect has eaten ths way out of its native grans, no doubt is proceeds to attack others It has aloo heen seen in flour brought from India in a metal canister hermencally sealed
"' That the length of the voyage does not produce the reevil is proved by the fact that cargoes of wheat eome from Australia perfectly free from it and in the finest possible condulion although often minc months on board, and the wheats of Australa fetch the very highest prices in the English markets
"' The wheats of Poland brought from Odessa ave rayely infected with weevil, so also those from the ports of the Baftic When it occurs m these it is to be traced to mismanagement, such as storing the gran in foul warehouses, sec
"But the wheats from Turkey, Dgypt, the Itahan Stater, and Span, are almost mvariably attacked with weevils In some cases of great neglect the msect has eaten half the weight of the gratn
" 'Wheats from the Balsic, when they arripe " out of condition," are hot and most The heat sems to arise from a vegetable fermentation occasioned by the damp state un which the gram must have been gathered and put into bulk Rut those from the Medrterrancan when hot (and they are wery hot) are dry The heat is dissipated at once by the mere act of separation in the process of unloading, but it immediately returns on the gram lyug again in bulk It apparently arises from the quantity of ammal hife in the gram
"، When grain is received in the last-roentioned state it is put into concal heaps The weevh always sechs the top, in due tume, therefore, the top of each cone ts taken off, and with it the greater part of the weevil Thus process, and the prevoous ravages of the msect of course destroy much valuable grain
"From comparions of the wheats grown in different countries it is inferred that the weevil is produced most pleatifuly, if not exclusively, in wheats grown in a climate whach 18 unduly dry
"Supposing the above view of the angtn of the weevil to be accurate, it is not beleved that the substutution of threshing machines for the bullocks and eartben fioors used in Indra would remedy this eni, although they would umprove the artucle in other lespects, and it if also thought that insect life, white in the egg mill endure without destruction any heat to which the gram can be safely subjected
" : American wheats, of which all thrs year, 1847, hittie has been mported, do not stand bugh in the estumation of English mallers, they do not hise the son ou which they are grown Luttie has been done with them in ordinary years to aupply trustworthy facts as to costs and freights
" 'Indian wheats, 15 hey can be brought over in good condman, are likely to be much approved
' Such are the optimons of a trustworthy and experienced person and af the lowest price stated of Odesan wheat be taken, 2.5 s per quarter, and tie lowest rate of freight Ca $6 d^{2}$ per quarter, then a ton of wheat would be introduced into England at a cost of $11688 d$ for the cost pace of the wheat, and $30 \mathrm{~s} 3 d$ for freght maing a cotal cost per tou of 146; 11d Freights from India vary excessovely, but sssuming a very high fretght of $5 I$ or 100 a per ton, and taking the average of all the averages of the price of wheat in the preceding tables, namely, iss Id per quarter, or $61 s$ per ton then the cost of a ton of Indiat wheat landed to Fngland would be 161 s , and a ordmary seasons It would not be worth a speculators whale to umport it from India But with raspect to other grains, some of which dre three or four tumes cheaper than wheat, the same objection would not exist, and tirey might be imponted to a great profit, even in ordanary seasonf, could a taste for them be induced But un seasons of scarcity like that of the past year, when the price of wheat has varred in the London market from 57 per quar-
ter（266s per ton，in November，1846），to 102 s per quarter（476s per ton，on January， lst，1817，）then India may be looked to with confidence for a suppiv，readering large protits to the importer India baviog the advantage also of ripening its grain crops in January and February，fire months before those of Europe are available It may be objected that a larger demand upon Inda would greatly raise prices，and probably per－ manently so but my reply to this objection is that about two－fifths of the whole fertule soil of India are at present untilled，and would necessanly be brought into cultivation to meet an increased demand for cercal supplies

Table I－Annual Average of Local Seers of Grain per Rupee of Two Shullings at Seven Localitues in the Collectorates of the Deccan，from the Year 1827 to 1845 ，both melusive

| LOCALITLES | 1817 1385 |  | 830 | 181 | 1832 | 1533 | 108518 | 8sal 1 | 1836 | 1887 | 1639 | 1837 | 1890 | 181 | 812 | 1981 | 189 | Hests |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| whemt | Mo No |  |  | Na | No | No | vo N | No |  | No | Na | No |  |  | Vo | No | No | No |
| Eewnare |  | 27 | ${ }^{4}$ | 24 | 413 | 23 | 28 | 32 ； | ${ }^{34}$ | 4 | 342 | 291 | 231 | 33 | 214 | 32 | 26 | 13 |
| Frabiukawareo | \％ 30 | 21 | 30 | 46 | 13 | 83） | 2919 | 45 | 32 | 34 | 256 | 21 | 23 | 23 | 31 | 35 | $24{ }^{1}$ | 121 |
| I and ${ }^{\text {a }}$ | 30.38 | 23 | ＊ | 32 | 16 | 14） | 32 | 4）${ }^{1}$ | 45 | 23 | 28 | 2 | 20 | 28 | 24 | 4 | 4 | 13妾 |
| Peorupatur | 25 20 | 234 | 24 | ${ }^{28}$ | 434 | $2{ }^{2} 4$ | ${ }^{12}$ | 251 | 97 | 31. | 21 | 89 | 25 | 23 | 99 | J2 | 2 | $14{ }^{4}$ |
| ind peor | 2130 | 235 | 25 | 24 | 17 ， | 16 | $3{ }^{3} 2$ | 25 | 30 | 34 | 21 | 21 | 25 | 29 | 23 | 24 | \％ | 14 |
| Katus | 24.414 | 30 ！ | 80 | 29 | 24 | 14 | 30 | ${ }^{2} 8$ | $3{ }^{3}$ | 12 | $30^{1}$ | $\underline{47}$ | 超 | 21 | 20 | ${ }^{*} 5$ | \％ | 13 |
| Mawul |  |  |  | 12 | 10 | 182 | 92 | $26:$ | 30 | 26 | 50 | is | 20 | 84 | 23 | 30 | 4 | 12 |
| Erce |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Serraere |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |
| Paubul | 10 21 | 17 | 23 | 16 | 12 | 13 | 22 | 92 | 16 | 16 | 151 | If | 14 | 11 | 15 | 16 | 18 | 13 |
| Poarsindher |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Indepoor | 9102 | 10 | 981 | 94 | 0 | $10^{\prime}$ | 13 | 104 | 11t | Ot |  | 10 | 13 | 13 | 13 | 12 | 13 | 84 |
| Fuha | 11.10 | 9 | 19 | 18 | 11 | 13 | 11 | 5 | 14 | 15 | 131 | 1. | 13 | 14 | 19 | 14 | 13 | 12 |
| Nawn |  |  | 24 | 212 | 4 | 176 | 84 | 这 | 18 | 84 | 33 ！ | 15 | 13 | 81 | 11 | 2. | 13 |  |
| Sewtiere ${ }^{\text {Gatai }}$ | 99 40 | 3 | 20 | 25 | 32 | 24 | 30 | 32 | 40 | 19 |  | 18 | 291 | 31 | 26 | 37 | 2 5 | 19 |
| Brainmangarea | 288130 | 34 | 91 | 21 | 171 | 234 | 26. | $2{ }^{2}$ | 34 | 34 | 254 | 20 | 24 | 35 | 81 | 3號 | 2041 | 12 |
| Paut 1 | 24 ：30 | 20 | 124 | 19 | 131 | 14 | 16 | 30 | 30 | 20 | 33 | 20 | 20 | 20 | 24 | 2 | 40 | 13 |
| Pcorrsudiar | 23137 | 21 | 21 | 24 | 204 | \％11 | 194 | 291 | 58 | ETid | 4 | ${ }^{18}$ | 94 | 9 | 32 | 9 | 94 | 131 |
| Indapsor | ${ }^{4} 422$ | 29 | 2\％ | 15 | 131 | 18 | 10 | 191 | 42 | J1 | 18 | 19 | 17 | 24 | 25 | 90 | 4 | 12 |
| Kules | 1516 | 14 | 16 | 15 | 38 | 19 | 18 | 15 | J6 | 20 | 22 | 24 | 24 | 30 | 81 | 89 | 26 | 12 |
| Nawnl |  |  | 82 | 19 | 191 | 18 | 2） | 26 | 83 | 29 | 95 | 16 | 17 | 24 | 29 | 31 | 23 | 19 |
| Sewnere ${ }^{\text {bagasa }}$ | 974 ${ }^{+} 40$ | 2 | ati | 33 | 22 |  | 139 | 32 | 34 | so | 113 | 22 | 39 | 32 | 30 |  |  | 16 |
| Bral munwatee | 20，30 | 501 | ${ }^{3} 1$ | 31 | 04 | 341 | 3 | 3131 | 4 | 40 | 45 | 31 | 76 | 311 | 38 | ${ }^{0} 1$ | 258， | 17 |
| Pevtaul | 33.48 | $4+$ | 41 | 40 | 18 | 22 | 40 | 37 | 32 | 38 | 34 | 5rt | 33 | 32 | 37 | 37 | 2 | 10 |
| Pomitadiur | 32 37 | 94 | 26 | 30 | 7 | 324 | 301 | 30 | 32 | 314 | 271 | 914 | 33 | 291 | 11 | 41 |  | 17 |
| Indapoor | 30 ｜ 56 | 4 | 38 | 32 | 15 | 䦽 | 48 | 40 | 14 | 58 | 959 | 81 | 4， | 11 | 51 | 35 | es 1 | 15 |
| A lat | 32.64 | N0 | 34 | $4{ }^{4}$ | 25 | 35 | 36 | 35 | 44 | $\stackrel{6}{4}$ | 31 | 44 | dr | $4{ }^{4}$ | 40 | 54 | 29 | 17 |
| Mamul | 1 |  | 314 | 4 | 20 | 1881 | 854 | 28 | 93 | 17 | 310 | 20 | 2＊4 | －3 | 48 | 34 | \％ |  |
|  <br> Sutwore | 324 |  | 12 | 60 | 35 | 98 | 36 |  | 32 | 54 | 33 | 36 | 38 | 43 |  | 481 |  |  |
| Brahmum warec | 30 34 | 314 | 45 | 38 | 201 | 411 | 43 | 40． 2 | 33 | 64 | 31 | 3.1 | 3 | 36 | 11 | dk | 坴 5 | 171 |
| Patabal | 44 th | $4{ }^{4}$ | 40 | 3 | 23 | 24 | 41 | dy | 30 | 40 | 46 | 3 t | 31 | 40 | 44 | 11 | 28 | 15 |
| $P$ orundtur | $36 \quad 30$ | 36 | 32 | 4 | 26 | 238 | 44 | ${ }^{32}$ | ${ }^{3 / 3}$ | 418 | $2{ }^{\text {4ti }}$ | ${ }^{30}{ }^{4}$ | 36 | 35 | so | 50 | 31 | 19 |
| Iodepoor | 378 | 46 | 42 | 10 | 4 | 4 | 45 | 46 | － | 68 | 42 | 30 | 18 | a | ， | 4） | \％ | 17 |
|  | 36801 | 36 | 66 | 5 3 | ${ }_{3} 1$ | ${ }_{3}^{5}$ | 36 30 | 新 | 36 | 72 | 32 | 4 | 6 | 54 | ${ }_{3} 5$ | 17 77 | 30 | 20 |

Table II,-Average Prices of Bread Stuffs, Ruce, and Gram at Seven Markete in the Collectorates of the Deccan, from the Years 1827 to 1845, both neclusive, together with the Weight Avorrdupois for Two Shulings, and the Priee per Quarter English


## 

## 







Table III -Average Patces of Gran in the Saugor aad Nerbudda Territones for Three Years, sold on Company a Rupees, from 1843





Tabre［II＊－Reduced Average Statement of Prices of Grain in the Saugor and Nerbudda Zerntories，beginmag 1843 From a Table， No 111 by Colonel Sleeman，expressed in Maunds，Seors，and Chittacks，per Companys Rupee，the Values giren hero in Pence per Ton

| A AMES OF MISTRICTS | Price per Quarter Eoglath of W）ge mil 1845 | 18.3 |  |  | 1944 |  |  | 1845 |  |  | 1896 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Wheat | Gram． | Rice | W beat | Gram | Rice | Wheat | Gram | nime | Wheat | Gram | Rea |
|  | ＊${ }^{4}$ | peace per | $\mid \text { pencen per }$ | pernce per | $\left\|\begin{array}{c} \text { peace per } \\ \text { toa } \end{array}\right\|$ | pence per | $\operatorname{monce}_{\text {ton }}^{\text {pez }}$ | peace por | $\underset{\text { pencs }}{\substack{\text { pan }}}$ | prence per | pedeo per | pecee par | $\text { per cos } p \text { cor }$ |
| Sauger | \％ 6 | 255 378 | 871373 |  | 370 783 | 403842 |  | Sth lis | 504008 |  | 9 HO 94 | 010707 |  |
| Dumulh | － | 345 itg | 828069 |  | 370538 | 355430 |  | 6136146 | 451125 |  | 063148 | 834818 |  |
| Jubulpoar | 410 | 3341813 | 358 330 | 976172 | $2{ }^{2} 78388$ | 428 065 | 10108621 | 4008308 | 5741897 | 1151357 | 687 36 | ${ }^{476} \mathbf{7 2 7}$ | 1178562 |
| Sean of | 511 | 345883 | 380,36 48 487 | 707 698 | 813423 887 $88(x)$ | 363.851 6.4857 | 762 673 |  | 4 Cis 803 | 1065 b19 | $362 \%$ | 7 mas ［19） | 1331265 |
|  | $\begin{array}{ll}5 & 5 \\ 0 & 5\end{array}$ | 3160159 30513 | 1， 4617 | 1001070 | 487 <br> 245 <br> 245 <br> 153 |  | 1040109 1237 3,4 | N30880 | ${ }_{5}^{463291}$ | 853930 15891100 | ${ }^{791} 1015$ |  | 10．9794 |
| Battail ${ }^{\text {a }}$ | 50 | 7088.8 | 419821 | 6710.9 | 323 024 | 350358 | 1097839 | 031482 | 000634 | 1413 44t | 1192511 | 1442 590 | 1788 \％ |
| Atcrapt price per ton an pence． | 1. | 353 j（0） | 絾 0， | 016000 | 320000 | 521000 | 1031000 | 394000 | \＄358000 | 1208500 |  |  |  |



Tabue III＊＊－Statement（an Pence per Ton）of the Average Price of Wheat in the Districts of the Saugor and Nerbudda Terntones， from the Year 1831 to 1840，a D Reduced from the Statement of the Commssioner，dated 6th of December 1841

| NAMES OF DISTRICTS | Rate per Ton ia 1 trice | Rave per Ton 10 lea ce | Rate per Ton in $\gamma+$ bee | Rate per Tou ia Feace | Rate per Tod th Itace | Rete per Ton <br>  | Nate per 7 m is Pernec | Rate per Ton ip Pesee | Ratn per Ton揗 I uee | Have per Ton 1 Fnec |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 30 \mathrm{th} \text { of } \mathrm{May} \\ 1931 \end{gathered}$ | $\text { with }_{1 \text { R3 } 3 x}$ | $\begin{gathered} 30 \mathrm{tL} \text { of } \mathrm{Mas} \\ 16,3 \end{gathered}$ | soth of Aitay 183 | $\begin{gathered} 302 h \text { of Nas } \\ 1835 \end{gathered}$ | 30th of May | anch of Mas | $\begin{gathered} 30 t h \text { of } \mathrm{May} \\ 1438 \end{gathered}$ | $\begin{gathered} \text { 3udh of way } \\ 1839 \end{gathered}$ | $\underbrace{30} \mathrm{~h} \text { of May } 1840$ |
| Staugat Dumid |  | 1138383 10450 | 1006812 0085 | yr of 40 mmine | 411743 .70575 | 76106 76768 | $63!041$ 66877 | 10822t2t |  | 7818 815 |
| Jubulpoor |  | 1773201 | 643 117 | 1192 and |  | 459004 | 7135 | 的4 415 | 71，bs | ${ }_{T}^{5152} 83$ |
| Seonce | 580 C32 | 6.5797 | 919068 | 1033 128 | 7.19438 | 717280 | 6023900 | 627 98 | ［1］580 | 543925 |
| Houbungabad | O12 $\mathrm{NI}_{1}$ | ， 4.3347 | 1240170 | 105G 243 | 104G483 | 534234 | 603480 | 6688 | 31.5 ws | 601 fok |
| Baitool | 131780 | did cide | gr uf Camine | 681 15 | 8740 Om | 441319 | 4 tbI 584 | 403108 | 60． 890 | \＄749989 |
| Pense pert tou arerabe | 7216 | 904 4 | 9359 | 1010000 | 8800000 | 678000 | 6183 | 70.5 | 797000 | 713080 |

Note－The average of tho whale was 70 S peoce per tom or lob．od per quarter

Tanle YV -Price Curtent of Whent, Gram (Chenaa), and Rice, as by the Norikh Namehs hept in the Office of the Prncopal Assistant Agent of the Governor General - Hoshungabed*

| 1 BARS | NOVEMBER GR SOWIng TIBE |  |  | JUNE, OR STORING TIME AFTER HAEVEST |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fencen per Ton |  |  | Pence per Ton |  |  |
|  | Wheat | Gram | flues | Wherat | Cram | Rie9- |
| 142t-2B | ccil 189 | $\text { di2 } 415$ | $\begin{gathered} d \\ 14.1979 \end{gathered}$ | $407914$ | $39$ | $1194759$ |
| 1920 | 429364 | 296385 | 696939 | 33, 34 | 25813 | 1-16 1835 |
| 1818 | 441816 | 317356 | 152 66b | 32\% 043 | gif * | 3509999 |
| 18.85 | 208076 | 1,69195 |  | 204 153 | 194,014 | Quesin |
| 1857 | 311384 | 238017 | 908520 | 466700 | 8754 | $1040 \cdot 16$ |
| 1828 | 448039 |  | 871383 | 406 | \%11 14 | 19,4 173 |
| 1829 | 40s 511 | 431876 | 774648 | 51578 | 3.388 | 90279 |
| 186 | 705.46 | 491591 | $362-440$ | 392028 | 348410 | 1059 928 |
| 1631 | 390467 | 317830 | 3760 | 4-2.3 149 | 481 0 -67 | 020 305 |
| 36582 | 414845 | 376172 | 750160 | 1069003 | 374129 | 1004815 |
| 18T3* | 1071387 | 575 | 1086894 |  | 606 939 | bas an* |
| 383.45 | 1335800 | Stisi 010 | 1330074 | 761944 | cisi 049 | 15116.2 |
| 5153 | 706302 | 50873 | 1037854 | 90, 310 | 629 enl | 1213 d91 |
| 4830 | 724 \%79 | 489850 | P02 238 | 502481 | 388012 | 957454 |
| 1937 | 917935 | 499958 | 1048814 | 524.493 | 860013 | 945 164 |
| 1838 | $598 \cdot 304$ | \$50 478 | 1017300 | $57 \times 430$ | 142-538 | 115088 |
| AFemers | 546 400 | 4.33090 | 066006 |  |  |  |

Nors.-The frotuatuona are entirely owng to goad end had harytath.



2 Pamine pancea






Tanle V-List of Average Rates of Grant, de, at Nagpore, dumbg the lears 1843, 1844, and 1845




Table VIl -Price Current of Grain, Pronsione, \&e, at the seveml Stations of the Bengal Army, for the Month of July, 1845


Table VII-Pree Current of Grain, Piovisoms, \&e, at the several Stationa of the Bengil Army fir the Month of July 1845-(conlonted)


Table VIII -Pice Curtent of Graun, Pronsiors, \&c at the several Stetions of the Bengal Army for the Month of May, 1646




Table VIII -Price Curient of Gran, Promeions, \&e, at the several Stations of the Bengal Army, for the Month of May, 1846-comanued




W ALIULSAN Secretary

Table IX - Contract Fncee of Supphes to the Mihtary College at Addseombe from 1836 to 1847

| A R | E $\mathbf{S}^{\text {c }}$ | 1836 | 1457 | 1838 | 18.8 | 1*s0 | 184 | 1842 | 188 | 1846 | 3843 | 1846 | 1847 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Areit and reutton | Th | ${ }_{0}{ }_{0}{ }^{4}$ | (1) 7 | ${ }_{0}{ }^{\circ} \mathrm{d}$ | ${ }^{4} 8$ | ${ }_{0}^{4} \frac{4}{7}$ | ¢ ${ }_{\text {d }}$ | ${ }_{0}^{\circ}$ | ${ }_{0}^{A} \frac{L}{d}$ | ${ }_{0}^{5} \frac{4}{64}$ | ${ }_{0}^{4}{ }_{0}^{4}$ | ${ }_{0}^{4}$ d ${ }_{\text {d }}$ | ${ }_{0}{ }^{\circ}{ }^{1}$ |
| fous best meconde | per anck of Lsat lua |  | 400 | 460 | 013 | 840 | 48 0 |  | 970 | 410 | 350 | 496 | 57.0 |
| tarap sugar | per ctip | 820 | $8^{8} 0$ | 0 | 70.6 | 250 | 1050 | 826 | 780 | 部 0 | 770 | 65 0 | 600 |
| Morst dito | do | 60 | ( d $^{8} 0$ | G4 D | 0.9 | 650 | ${ }^{30} 9$ |  | 60 | 620 | 86 | 50 | 490 |
| We t ludea rixt | do | is a | 280 | 169 | $4{ }^{29} 8$ | \$48 | 943 | 36 | 120 | 190 | 176 | 280 | 946 |
| Yalendia rasons Carranta | do |  | 86 80 80 | 41 40 60 | 110 | $\begin{array}{ll}47 & 0 \\ 84 & \end{array}$ | 410 | \% 0 | ${ }^{89} 0$ | 430 | 58 | 420 | 40 |
| Carrants | to | 680 | 80 | $6^{0} 0$ | 740 | 848 | 75 |  |  | 560 | ${ }^{81} 0$ | 56 | 96 |
| Congout tax | Prib |  |  | ${ }^{311}$ | 58 |  | 44 |  | 311 |  | \% 48 | 32 | 4 |
| Molt | per qr |  | 540 | Sus | As 0 | 700 | ${ }^{63} 0$ | 600 | 590 | $00^{0} 0$ | ${ }^{81} 0$ | $1{ }^{10} 0$ | ${ }^{64} 0$ |
|  | plermet | $\begin{array}{cc}98 & 0 \\ 6 & 1\end{array}$ |  |  | 210 <br> 7 <br> 7 |  | 190 0 | 150 8.11 |  | $\begin{array}{rr}145 & 0 \\ 6 & 0\end{array}$ | $1{ }_{6} 88$ | $\begin{array}{r}150 \\ 5 \\ \hline\end{array}$ | $\begin{array}{rr}93 & 0 \\ 6 & 5\end{array}$ |
| B p ditto |  | ${ }_{6} 8$ | 4 | 57 | 66 | 121 | ${ }_{5} 5104$ | 310 | 5 |  | 410 | 411 | 510 |
| bpermoll | Perasill ${ }^{\text {a }}$ | 60 | $4{ }_{4}^{4}$ | 810 | 73 0 | 811 | 80 | 70 | E 41 | 60 | ${ }_{10} 9$ | ${ }^{6} 6$ | 70 |

Tably X.


## Copy of an Invorce given to $J$ Chapman, Esq, July, 1846, by Mr Smath, of the firm of Aneol \& Co, Bowday The Aransaction toch place in $J_{n} I y, 1845$

| 5 mash or 200 tons of salt - 5600 maunds, at 150 rupees per mash | ${ }_{750}$ | $\begin{array}{ll}\text { A } & \text { P } \\ 0 & 0\end{array}$ |
| :---: | :---: | :---: |
| Duty 12 annas per maund | 4200 | 00 |
| Carriage hite from Tannah to Bonibay | 15 | 20 |
| Frought to Calcutta, 850 rupees per rash | 1750 | 00 |

The cost of this salt, including carnage, but exclusive of excise duty, to the purchaser's door, was a decimal more than $4 \frac{1}{2} d$ per owt, and inclusive of the excise duty of 12 annas per maund, the price for shpment to Calcutta was $2 \approx 5 \$ d$ per crut., or 49 s 8 d per ton

## COTTON CULTIVATION IN INDIA

There is no product wheh has become so important, as a raw material, for the employment of the most numerous class of our manufactunng population, than the regctable wool called cotton

This will appear evdent when we consider that not only the Unted Kingdom, but the factores of Contmental Europe and of America, have to rely for this mateml, chefly, on the crops of the United States It is true that many parts of the Britush Possesstons are by soil and clmate, adapted to furnsh the most ample supplies of cotton wool British Guiana, British Indis, and the North Eastern parts of New Holland, are all well adapted to produce cotton of the best quahty in abundurce, but the scanty, and high wages of, labour in Guiana and New Holland wilj long prevent our obtaning any great quantity of cotton, except from the Unted States, unless we, by improved cultivation and new facihties for pre paration and bringing to market, increase the quantity of cotton which Irdia ean in pu fuston supply

The three great vancties of cotton, the herbaceous, the shrubby, and the arboraceous, all thrive in India (See lengthy correspondence in the reports on the cotton of India, land before Parhament)

1 The Helbaceous (gosqypaum he baccum) is a single species, but of duftrent varieties, both in quality and value It is biennal, and cultivated in India, as well as in the United States, China, \&e Its height is from two to six feet, with palmeted, hee lobed, darh green or browmsh hues, with pale jellow leaves, and a triangular three celled pod, wheh is brown when about to burst, when it throws out three locks of white or yellontsh cotton, to which the seeds adhere With tenacity In India it is vaiously named viz, farpacice in Sanscrit, retace, in Humbostam, hapus, in Bengah, banea, in Central Indin, pafi chioo, in Telinga, upuin punthee and npum perali, in Cznara, and penati, in Malabar

The Dacea vanety differs from the common Gossyjuin herbaceum --

1st In the plant berng mone ereat, with fewer branches, and the lobes of tire leaves more pointed

2nd In the whole plant being tanged of a reddish colour, eqen the petioles, and nerves of the leaves, and beng less pubescent

3rd In baving the peduncles which support the flowers longer, and the exterior margins of the petals tinged with red

4th In the staple of the cotton beng longer, much finer, and softer
The Berar vanety is cultrited in many parts of the Berar country, and from thence imported into the Northern Ctrears, by Sada, Balawansa, \&e, to Yourmagoodum, in the Masulipatam district The fine Madras "long-cloth' is made of this cotton It differs from the two first sorts - lst, in growing to a greater size, in being more permanent, and in havng smooth and stratght branches, 2nd, in having the leaflets of the exterior calyx more deeply divided, and the fibre of a finer quality than the first vaniety

In South Behar there are four vaneties -lst, the Rehdhea, the finest is sown about the sutumnal equinox, and of this the Dacea mushns are sad formenly to have been made, bat none is now exported thither, 2nd, the Heulec, the next in fineness, is sown in June, 3rd, the Jeitowa, is sown at the same period, 4th, the Kolety, which is yellonsh This knd makes the best fine thrend, and us culbyated chsefly to the north of Tirhoot -(TYans Ind Agrt-Hort Soc, w, p 225 )

The Guzerat cotton $1 s$ also of this species The plants are described as differing from the Bourbon peremal knd, by never exceeding two or three feet in height, by hawing few branches and a smaller nuraber of pods, and by yielding its wool in six months from the time of sowing

2nd The shrubby cottons are-
$G$ vilifoliom, or vine leavei cotton, which is in fower and seed the whole year, it yuelds but little wool
$G$ rehgzosum, or nankeen cotton (Willdenow and Roxburgh), found in Surrnam, Hindostan, ke Flower, unformly yellow, wool, tamn This is occa slopally grown in Burmah, where it is called ta nee

G Batbadense, or the kand which was cultrated chefly in Barbados It is known in India as the Bourbon catton, and the plant 18 productive for several years*

G acummatum, is distinguished by its greater size, and large black seeds, which aduere firmly to each other, but eassly separated from the wool It is sand to be mdygenous in the mountans to the north and west of Bengal. Dr Walhich describes a specimen brought from the Nusseerabad, where it seems

[^12]to be common He says that it is very productive, and that the wool is mik white, long in staple, and, although that which was grown in the Botame Garden, at Calcutta, sas harsh and woolly, yet the vanety seems mprovabie by culture, because the specimen from Nusseerabad was soft and silky ( Z anaalions Ind Agrt-Hoot Soc, in, p 149)

Mr Rundell, in 1819, describes this kind as growing to the height of ten or twelve feat, that the shrab produces at least 600 large pods, each contaning from fir to ten conglomerated seeds, enveloped in very fine ind valuable wool It thinves well on the margin of water-lasts about seven years, requires pruning oecasionally of its dead branches, $\& s$, and, durang very hot weather, should be uatered at least twace a week An acre will suffice for about 500 shrubs, 230 pods usually weigh one pound, and yreld from four to five ounces of clean cotton -(Goncrnment Repont on Cotton, \& $6, \mathrm{p} 88$ )

Plants of this species differ from the heibaceous not only in height, but in the form and size of their pads, which are oval and larger In addition to these distinctions they are longer hved for, although in the most temperate chmates capable of growing cotton, they frequently become annuals, yet, in the most toirtd localities, they are perennal, whilst in the West Indies they are either benmal or tranmal, and an Egypt, \&e, he for six, or even ten years

The Persian cotton shrub on the sea-coast, hes for twenty or tharty years, but in the interior it is cultivated as an annual

G obtusifolum (Roxburgh), a native of Ceylon, producing a small quantity of ash coloured wool, not cultivated

The tree, or arboraceous cotton-plant, Gossypum asboream, grons to a height vary ing between twelve and twenty feet It is indigenous to Inindostan, Chma, Egy pt, and some other parts of Africa. Dr Roxburgh says it is not cultrvated for its nool, but Dr Royle states "that some, producod by this species at Sabanapore, was pronounced by a competent judge to be of the best descuption, as both staple and fabuc were good "-(Botany of the Ifimalayan Mountatns, p 96) "It qppears worthy,' he adds, " of being the subject of further trials, partncularly to ascertain its productiveness, fot of the fineness and silky nature of its stople there can be no doubt, as it is employed by the natives for making the finest musions only It was cultivated like the common Indian cotton, and gave its produce, in the first jear, dunng October and November, and a second crop in Febuary

Distinds best stated for Colton-As some one of the several species of cotton plants may be found in every district of Hindostan, from Cape Comorin to the Himalaya Bountans, it is assumed that no portion of the globe of equal evtent, is capable of yielding so large a quantuty of this useful material, and from the eathest ages, cotton as often rlluded to as a spectal poduction of Inda

It is also assumed, that no pait of India has a chmate unsuited to the pro
duction of superior cotton "That this assumption' 15 demonstrated bv the fact that the best somples are produced in Guzerat, at the north-western extremity, in Behar, the very centre, and at Thmelly, on the most southern pont
" "That it appears that it is the generally dry sheious nature of the soil of Guzerat, as much as the dryness of its chmate, that is so extremely farourable to the growth of the cotton plant It fiouishes there even in the most sterile districts, though necessarily not so luxunantly as in the more fertile soils
"The same observation apphes to the neighbouring province of Surat, where good cotton is produced, but the best in that part of India is grown in the districts of Jambooseer and Ahmood, and, indeed, throughout the Broach Pergunnah This is stated, in a government report, to be verv supeno to the Nagpore or any other cotton grown on the eastern side of India"

Mr Owen Potter, who was extensively employed in shipping cotron from the above distnats, in 1837, states, in a paper which he submitted to the Manchester Chamber of Commerce, that "the chef cotton ports are Surat, Boroche, Tankara Bunder, Gogo, and Bownugger" All these ports are withn a short distance of each other, and nearly the whole of the cotton above mentioned grows within forty miles of the port it which it is shipped
"At Omrawulte, coltor is grown at the rate of two pounds for twopence, in moderatel, favourable seasons, and did good roads exast, this article could be delivered at Bombay at a handsome remunerating price It is now carried on the backs of bullocks, and the extra cost thus meurred amounts to a penny a pound more This cotton is but little mfenor to that grown in Guzerat, which is looked upon is the garden of the westera side of Indaa."-Procendangs of the Trans Ind Agra-Hortzcultural Society

In the Decean the production of supenor cotton is not confined to the vionity of Nagpore, for it can be obtained abundantly much further to the north, at Calpee, as well as in the districts of Currah, Carah, and Etawah

The cotton grown in the southern extremity of the Pennsula, at Tinntyelly and Combatore, has been highly approved of in the Enghsh market
"At Thmonvelly, where Mr Hughes has been long engaged in the cultivation of the Bourbon cotton, that gentleman considers the viomity of the sea, ol situations to whoh the influence of the sea air extends, are on every account to be preferred A dry soll, and a dry atmosphere, from March to May, and from July to September, seem almost essental to the good quality of the wool, as well as to the productiveness of the plant. The freest creculation of air, and of light winds, are of the grentest benefit to a perfect culture
"Mr Heath, a gentleman also experienced un the cultivation of the same description of cotton, states that his experience differs from that of Mr Hughes with respect to the infuence of vacinty to the sea, for he found the cotton come to
perfection at the distance of 150 miles from te shore - (Proceedings of Agri Comm of the Royal Astatce Society, P $7^{2}$ )
"In Burmal, cotton is cultivated very extensively, chiefly for the Chma market, though the accounts are too discrepant (varying from $7,000,000$ to $37,000,000$ ) to allow of a satisfactory estmate beng given of the annual amount The greatest quantity is produced in the neighbourhoods of Ava and Prome, but that produced at Bauksk and that in the Mataban province (known as Tenasserim cotton), appears to have the longest staple - (Trans Agri-ITort Soc of India, 11, 123-131)
"A specimen of Georgia Upland cotton soll, Mr Piddington sayc, vesembles much in appearance the light, fawn coloured, sandy solls of Lower Bengal One half, by weight, was coarse gravitic sand, with a few minute fiagments of filspar and shells, and some vegetable remans, chnefly from cotton shrubs It was closely analogous to the Sea Island sols in showing, when heated, that it contained liguite or peaty matter
"The man or marrah, a black soll from Bundelcund, sad to be found in that district, the best soil for cotton, if not lying so low as to retain the water, was also exammed by Mr Piddington He describes 'its appearance, when dry, to be that of a dark, brown, heavy, anterspersed with small white nodules, which are soft humhur* So that the whole is casily pulverised' 'It forms with water a tenacous clay, and dres into tough lumps, giving every indication of being what the black soll for cotton is described to be, viz, a soll produced by the decomposition of trap rocks, forming a tenacious mud in the rans, and drying anto a hard black clay, crossed by mnumerable deep fissures and cracks in the hot nunds'
"When heated in the matriss, a striking difference appears between this and the American soils in the total absence of any trace of lignte or peaty matters '
"Combatore, or Oopum cotton sotl, considered one of the best for this crop in southern India, Mr Piddington states to be like the last, black in colour and tenacious in consistence, but modifed in this respect by the intermixture of felepar and siles

- The Tinmeelly sol found best suted for the growth of the Bourbon catton plint, looks like a maxture of hane rubbish and jellowish brickdust, and is intermused with nodules of kunhus
"A specimen of the bust Singapore cotton soll nas evamined by Mr Piddington He describes its apperance as very remarkable " it consisted appa-

[^13]reatly of large, coarse grans of white sand, mixed with coarse charcoal dust and fragments of vegetables and mosses of all sorts, bemg in fact, as to appearance what we mught suppose the Sea Island sol to be before it was reduced to a finet state When sifted, indeed, it almost exactiy resembles the Sea Island soll, except that the sand, bemg white, renders the contrast between it and the carbonaceous dust more striking About one-thrd of it was coarse silictous gravel without felspar or fragments of shells, and weth a few remans of carbonsed wood, roots, and moss intermixed with it"

THR following Table exhibitg the result of Mr Paddington's experments


The conclusions which are drawn bv Mr Fiddugton from these researches, are "lst That the abundance and fineness of good cotton depends on the quantity of carbon the sonl, and the solubility of that carbon 2nd That the aext best soll is one contaning carbonate of hme 3rd That the soll should not be too tenacious "I have had repeated expertence of thiss" he adds, "in Bengal, and, on the Bombay side of Inda, I observed some time ago, that a Parsee gentleman, Furdonjee Cowasjee, had partly fauled, or experienced much loss, in some experaments in cotton, in consequence of the clayey nature of the soll, which retaned too much mossture In the West Indues, the years of drought are far the most fayourable to the cotton crops, and the Singapore solls are mstances of cotton growng in what maght be called pure sand with vegetable
matter, but we must, ptobably, make allowances in these mstances for the vicunty of the sea "-(Trans Ind Agri-Hort Soc, vol v1, 223-4) 4th That it is preferable for the sand to be in coarse particles

Writug from Tinnivelly, Mr Hughes states, " that the red and brown loams, or, indeed, any silicious or calcareous soll, fertale in a moderate degree, is the most suitable and frutful That no very rich, heasp, retentive, stuft solls, should ever be selected, for though the plants are luxurious, yet they have as much and more tendency to produce redundance of wood and leaf than of frut buds, besides harbouring msects What is commonly known in many parts of Inda, under the denommation of black cotton soil, Mr Hughes states is to be entirely avorded

Captan Robertson reported to the Bombay government "that the Bourbon cotion succeeded veiy well in the eastern parts of Broach, in the light sandy solls, as recommended by the cultivators of the Isle of Bourbon"

The Agri-Horticultural Society of Bangalore reports that the light brown sonl of moderate depth and rather sandy (so prevalent in Mysore), seems to be the soll that suits the Upland Georgia and New Orleans, but the Sea Island thrives in most ground that is well drained - (Trans Agre Hort Soc of India, 11,230 )

Mr Cwart, speaking of his experience in the cultivation at Guzerat of Bourbon cotton, or a varzety nearly akin to $1 t$, says, "dt requires a dry, sandy soll, and no irrigation, water or manure sends it all to leares and branches "-( $P_{\text {roceed }}$ Agri Hort Soc of Indta, May, 1839, p 22)

The fallure of the expenments made at the Akra farm by the Agni Horticultural Society is an illustration of the unfitness of an over-fertile tenacious sorl for the production of cotton The commatiee of the society, reporting upon the falure, observe, " that it estabhshes the fact that the cotton of America will not flourish on a rich and moist soll, whilst its natural basis is, for the most part, composed of three fourtlis of sand, and one-fourth of clav" This was evidenced "by the rapidity and luxuriance of vegetation, in the production of abundance of wood, leaf, aod flower, but little produce"

These results point out that souls constituted almost entrely of the least retentive of all constituents slex, carbonate of hme (chalk), and oxide of icon, are best sunted to the growth of cotton In other words, that the sosl cannot be too hght, whether it is upland or lowland, maritume or inland.

Mr Heath says," that in the Madras terntones, two species or varieties of cotton plant are cultivated, and these require very different soils, one is unnual (oopun punthec, $G$ herbaceum ${ }^{7}$ ) and the other perenmal (madam punthee) The first succeeds only in the 'black cotton soll,' formed apparently from the decom$3 \times 2$
position of trap rocks, but the second only in a very light soll, formed from the disintegration of grantic rocks, especially when muxed with hunkur, of calcareous tufa"
"Mr Heath made his experiments on the Bourbon cottonin the latter kind of soil, which is more abundant than any other in the districts on the Coromandel coast, south of Madias, and he entertains no douist, that the Bourbon cotton plant maght be successfully cultivated wherever this kind of sol occurs In introducing this cultivation, he had to enconnter the usual difficulties consequent on the introductron of any novelty in agmculture, but these gave way to perseverance At the end of four years, Mr Heath bad the satisfaction of seeng the experiment completely successful, as in the scasons $1823-4$, he procured from the district of Combatore, 500 bales of clean Bourbon cotton, of 300 pounds each, and the natives were, at that tume, well satisfied, that the cultuvation of this was more profitable to them than that of the common cotton of the country "-(Proceed Comm Agn Royal Astat Soc, 1838, p 72)
" Mr Bolingbroke sayc, that in Demerara the Bratsh settlers found that the cotton plautations succeeded better on the sea-const than on the banks of the river, a supenonty which be attributed to its contaning tnore comiaon salt.(Bolingbrokes Voyuge to Demerart, 204) This opinion that salt promotes the grovils of the cotton plant is also expressed un the third report of the African Institution, it being stated positively that the saline arr of the sea-shore, though generally destructive to the coffee plant, is favourable to the cotion "-(Report itu, p 23)

Mr Bernard Metcalf, remarking upon the cottons of Inda, observes, "that the Georgla, Sen Island, Surmam, and Demerara cotton plants are all grown on the border of the sea, and the prome qualities only so far inland as the influence of the sea arr and tide waters extend"-(Grovermment Report on Cotton, \& $c$, p 418)

A yery able report has lately been transmitted from Bombay on the produce of cotion in India, aud pointing out forcibly the dechne in its cultivation It appears, however, that the quantity grown in all Indias very great, for the population is chefly clothed with cotton panufactures made of the raw maternal grown in the country As the Bombay Report and also a huge volume of correspondence have recently been presented to both Houses of Parhament, we can do no more than refer to them, and to the following statistical tables of the cotton trade of India, \&c*

[^14]Statemenr of the Quantity of Cotton shpped by the Honourable Company to China from the Presidenctea of Bengal, Fort st George, and Bombay, from the earlest Date comprised in the Company's Returns of the Export Trade down to the close of the Exclusive Trade of the Company to China.

| YEARS | BRNGAL |  |  | M ADRAS |  |  | BOMBAY |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | QUANTITY |  | VAbUE | Q UANTITI |  | $\frac{\operatorname{satin}}{\text { Tues }}$ | QUANTITY |  | $\frac{\text { VALUE }^{\text {Taka }}}{\text { The }}$ |
|  | Enles | Weight | Talea | Balct | Weicht |  | 18ales | 3 l etht |  |
| 1305-96 | anmber | cwer | ambount | number | calid en | -mandt | $\begin{gathered} \text { number } \\ 1075 \\ 1,850 \end{gathered}$ | carietio 1 197 J1. | $\begin{gathered} \text { Amontit } \\ 47003 \\ 37954 \end{gathered}$ |
| 171 -89 |  |  |  |  |  |  |  |  |  |
| $\}_{1}^{14-108}$ |  |  |  |  |  |  |  |  |  |
| $1{ }^{15} 5$ - 51 |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 17-1600 \\ & 1 \end{aligned}$ |  |  |  |  |  |  |  |  |  |
| 1401-4 |  |  |  |  |  |  | $\begin{gathered} {[5,48+4]} \\ 5 \Delta 4 x_{2} \end{gathered}$ | 8216 | 17119 |
| 1402-63 |  |  |  |  |  |  |  |  |  |
| 18L3-04 |  |  |  |  |  |  |  |  |  |
| 100.t-05 |  |  |  |  |  |  |  |  |  |
| 1835030 |  |  |  | 2109 | 1316 | 45,363 |  |  |  |
|  |  |  |  |  |  |  |  | cwers |  |
| 1500-0, | W2 | 1003 | 11 539 |  |  |  | 103330 | 3 P10 | 2.27178 |
| 1N07-64 |  |  |  | 51 | 30 | 1278 | $16,9060$ | 25105 | ${ }_{6} \mathbf{3 1 8 4}$ |
| $33(8)-0$ |  |  |  |  |  |  |  | 53208 |  |
|  |  | melt |  |  |  |  |  |  |  |
| 3843-10 | 2243 | 4,012 | 40,016 |  |  | 37109 | $\begin{array}{r} 4033 \\ 123.02 \end{array}$ | $\begin{aligned} & 15168 \\ & 3.061 \end{aligned}$ | $\begin{aligned} & 120,315 \\ & 3,20, \mathrm{lkA} \end{aligned}$ |
| $1810-11$ |  |  |  | 1,082 | 1150 |  |  |  |  |
|  |  | $\begin{aligned} & \text { That } \\ & 8 \text { 501 } 700 \\ & 3 \text { ISO } 200 \end{aligned}$ |  |  | $\begin{aligned} & 1 \mathrm{bx} \\ & 125000 \\ & 8010010 \end{aligned}$ |  |  |  |  |
| 1h1)-1 | $\begin{gathered} R_{1} \infty \\ 10 \$ 17 \end{gathered}$ |  | $\begin{aligned} & 900 \infty \\ & 43+x \geq 8 \end{aligned}$ | ${ }_{2}^{4670}$ |  | $\begin{array}{r} 5422 \\ 50246 \end{array}$ | 14494 <br> 19743 | $\begin{aligned} & 47078 \\ & 65664 \end{aligned}$ | $\begin{aligned} & 8,4,268 \\ & 524603 \end{aligned}$ |
| 3*1.t-13 |  |  |  |  |  |  |  |  |  |
| 1813-14 |  | \$200500 | 4087 | 5,905 | 171,500 | 113 998 | 20600 | $\begin{gathered} 1 \mathrm{bs} \\ 7814 \$ 23 \end{gathered}$ |  |
|  | 1835 |  |  |  |  |  |  |  | 574,918 |
| $1014-15$$1814-15$ | 4041 | 1476,300 | 1020030 |  |  |  |  | $\begin{aligned} & \text { cut } \\ & \text { 70 078 } \end{aligned}$ |  |
|  |  |  |  |  | 17582000 | 1393143 | 21373 |  | 545496 |
|  |  |  |  |  | cavdiea |  |  |  |  |
| 18ir-17 |  |  |  | ${ }^{6} 517$ | $3 \times 4$. | 191037 | 23070 | 73, 98 | 925,156 |
| 1817-18 | 4031 | 1388990 | 18810 | 4748 | 2.414 | 11350 | 238484 | 75963 | r37201 |
|  | 5240 | $1 \mathrm{r7} 1504$ | $1{ }^{1} 508$ | 24.48 | 1,0/2 | T0 wnd | $1 \mathrm{H}_{2} \mathrm{~S}_{5}$ |  | 610 ${ }^{\text {ct }}$ |
| 18: | ${ }_{28}^{9845}$ | $2 k 7310$ 384 | 3 1 3 <br> 8 46  <br> 109   | +647 |  | [18.57 | 20,319 | (6,993 | 729468 |
| 18:-1 | 20 uct | (3) 1,300 | 846109 | 4010 | 2,986 | 134804 |  |  |  |
| 1521-2 | 20151 |  | 5 31,310 | 4800 | 2915 |  | 2578 | $\begin{gathered} \text { candies } \\ 12070 \end{gathered}$ |  |
|  |  | C04,300 |  |  |  | 1,310507 |  |  | 811141 |
|  |  | mils |  |  |  |  |  |  |  |
| 1572-23 | 6000 | 3/1 141 | 151958 | 6, 7,1 | 37091615 | 1 1 180. | 6556 | 9176 | 151747 |
| 12 $3-24$ | 2 1ta | $\begin{array}{r}101920 \\ 894 \\ \hline 185\end{array}$ |  |  |  | 401170 | 16. 30 | 7162 | 3 3+47 |
| 15 1-13 | 20 69 |  |  | 7184 | 4115 619 | 9 T \% | $\begin{array}{ll}14 & 10 \\ 13 & 07\end{array}$ |  | 282.423.7483 |
| \%8 5-26 | 11.069 | b) 240 |  | $\begin{aligned} & 7315 \\ & 8462 \end{aligned}$ | 446 | $12 \mathrm{Ca} 45{ }^{2}$ |  |  |  |
| ${ }_{14} 6-27$ | 321.5 | 129248019 |  |  |  | \% 4807 | $\begin{array}{lll}13 & 07 \\ 1.0 & 095\end{array}$ | ${ }_{7}^{4} 1048$ | 372.65 |
| 184-34 | 22,694 |  | 612246 4 4 | $\begin{array}{r} 8_{1} 62 \\ 12429 \end{array}$ | 7417 | 2*1 476 | it $4 \times 3$ | 10 mag | 8 1, 249 |
| 3/23-26 | 43114 | $1693 / 3$850171 | $\begin{array}{cc} 32 \\ 171 \\ 10 \end{array}$ | 12\% 13 | 77148109 | $\begin{aligned} & 32425 \\ & 31125 \end{aligned}$ | 16.04 | 775 | \$11784 |
| 1820-381 | 21174 |  |  |  |  |  | $\begin{aligned} & 1.2012 \\ & 21007 \\ & 1016 \\ & 15055 \end{aligned}$ | $70 * 0$ | 330 mas |
| 1850-31 | 3e ${ }^{\text {cos }}$ | 16981373813 |  | $1183$ | 5691 | 2,10947 |  | 11 (9) | ${ }^{4} 17 \mathrm{kSO}$ |
| $18,51-7$ 15.12 | IM 4140 |  |  |  |  |  |  | cot sitates | 307847 d 4.680 |

Starement of the Quantity (with Falue) of Cotton (exeepting the Honourable Companys Chuna Inpestment) shipped at the Port of Calcutta to all Parts of the Wonld beyond the Presidency of Cort Whllam, from the Offical Accounts, 1795, down to the Year 1835, melusive


Statenevt of the Export Cotton Trade of the Port of Caloutta，from the Ist of May， 1433 ，to the 30 th of Apri， 1840 ，compled from the Ofhenal Records furmshed from the Calcutta Custom House

| PCEIOD | GTELT BATAIN |  | FOREIGN ETROPE |  | OHINA |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mavedy | $v$ alue | Mounds | Yalue | N unds | Yaiue |
|  | Enncisay | rap em | number | тupers | number | rapeet |
| 1939－3．4 | $10{ }^{-1 / 3}$ | 1 mers |  |  | 134809 | 197102 |
| ${ }_{1}^{1}+7,3$ | \＄\％ 747 | $\pm 47679$ | 2743 | 24013 | $8 \%$ It | \％ 7010 |
| $1+7,3-315$ | 116278 | 12.6413 | 2166 | 231881 | 490100 | $47 \pm 1295$ |
| 1 17.97 | 18.24 | 14015 | 14100 | $12 \times 145$ | $4015{ }^{518}$ | 38151931 |
| $1 \times 77-38$ | 355 | 80.70 | 73 | 668 | 197915 | in 10020 |
| 1835－79 | $2^{3513}$ |  |  |  | －18941 |  |
| $1 \times 3,-10$ $1 \times 1 / 2$ | $2_{1}^{2} 0$ | ¢34 0141 | 2 P | 2301 |  | 1F： 143 |
| $1 \times 11-49$ | 4 Cs | （1） 31 |  |  | 70，391 | ¢6\％17 |
| 1512 － 13 | 15.81 | $1 \mathrm{H}_{1010}$ |  |  | 103304 | 1485，560 |
| 3hig－4： | 1748 | 24＋65 |  |  | 1＊77S | $19 \% 377$ |
| 1514－13 | 1300 | 17 lng |  |  | 1890 | 19783596 |
| 1815－46 | 117 | 1727 |  |  | 89005 | \＄88552 |
| rtal mannods <br> Thad the |  | $\pm 01737$ | 480437\％ 48 | 4，8，581 | 2712757 20,378788 | 2，05．99， 270 |
| T¢ 1 in | 10.585 |  | 30， 390 |  | 513 40，ouf |  |

Statement－（contarued）．

| PERIOD | STRAITS of MAt ACCa |  | All Other Quarmer |  | Gmand Tatar |  | A ovage Vilu per Mantid |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Manode | Yalus | Maunde | Yaino | Menids | Value |  |
| 1631－34 | nanaber | Tuptif 100 | number | rapeer | 2uthler | Tipeey 1 1 3 | Rs Dee |
| 154－3） | 2006 | 226.4 | 1 | 7 Cl | S 38837 | 3146138 | 534 |
| 14． 31 | 4156 | 45614 | 1632 | 18375 | bns 762 | 4263777 | $1{ }^{6} 3$ |
| 1035－3 | 165 | 154．480 | 839 | 0.73 | 4714 | 3531317 | 881 |
| 16\％－48 | $1 \times 19$ | 15 do | 415 | 3910 |  | 1861165 | 912 |
| $13 \mathrm{x}-\mathrm{dJ}$ | 1388 | 13 b | 257 | 365 | 23359 |  | 905 |
| 183－t0 | 1117 | 154194 | 7 | 29 | 1594．5 | $182 \times 4$ | 1012 |
| 1 14－ 11 | 2．2．703 | 25.659 | 15 | 60 | 15940 | 13 24，237 | 1940 |
| 18：1－12 | 2480 | 2N＋CA | 175 | 707 | 1 fu 4 d | 1205，357 | 160 yc |
| 1＋12－13 | 2）mad | 241435 | 109 | 1.383 | 171 | 1716983 | 958 |
| 14：7－41 | 3471 | 4） 827 | 5 | 79 | 201457 | 2025140 | $10 \mathrm{b5}$ |
| 1 H － | 1161 | 11.612 | 21 | 218 | 01871 | 20，18 743 | 10 |
| 18i－ $\mathrm{sb}^{\text {b }}$ | 4486 | 4.485 | 48 | 143 | 036 | $9{ }^{9} 5164$ | \％ 7 |
| Tutai maus dy Tutill les 1 ata | 100405 84165 $7 \times 17$ | 1117133 | $\begin{array}{r} 3+12 \\ 3161+2 \\ 2>92 \\ \hline \end{array}$ | 3324 | $\begin{array}{r} 5018103-1 \\ 2,3) 00140 \\ 26428 \\ \hline \end{array}$ | 30411867 | ff ${ }^{\text {\％}}$ |

Stativevt of the Cotton Lxported from the Presdency of Madras， 1824 to 1835 － （Offical Account）

| Y EAR 9 |  |  | $\left\|\begin{array}{c} \text { WITGD } \\ \text { KINGUON } \end{array}\right\|$ | DENGAI | CITA | FOMBAY | Other |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y 2 H | Quants | ，mate | Values | －alac | Value | Yalue｜ |  |
| 1＊21 5 | $13^{v t} \times 7$ | $\begin{aligned} & \text { saped } \\ & 108640 \end{aligned}$ | Fupo <br> 1 05 to | Fupo 6 | $\begin{aligned} & \text { ruptes } \\ & \& 71 /!\theta 8 \end{aligned}$ | rop 11058 | 6－g |
| 16． | 4 9，${ }^{4}$ | 11 kraby | $11 \% 6 \pm 1$ |  | is $\mathrm{x} \times \mathrm{y}$ | － $7+165$ |  |
| $1 \mathrm{H}-1$ | 40150 | 7146851 | $4 \times 535$ | 143 | 3 His | 11428 | 苓 |
| $11.17-24$ | 316 | \％10．19 | 31774 | 14 | 131 5127 | 12 uns | 会 |
| 12 Cl | 31737 | 112101 | St 13 | 171 | T01402 | 2 di 31 | － |
| 1＋5－3 | 1） $43 \pm$ | 1234738 | 12763 | 4＊） 1 | 115： | $414 \times 8$ | \％ |
| 10．6）J1 | $\pm 16$ | 7 001 | $10 \cos 5$ | 101525 | 530130 | $12+4$ | \％ |
| lell 12 | 4275 | $80 \pm 37$ | 里risto | 2） 414 | 121200 | 200 | 令 |
| lat－ds | 3） 1 （4） | ©） 173 | 2185 | 3 517 | 1.31120 | 20030 | H |
| 14 （1） 14 | 4 AT | 431514 | 955 30．4 | 3 48 CH |  |  | \％ |
| 14 J － |  | 1 J ${ }^{\text {a }}$ | $\pm 13803$ | ${ }^{0} 2$ |  | ， |  |

Stamprent of the Export Cotton Trade of the Port of Mendras from May I，1833，to Aprl 30，1846，compuled from the Offical Records furwshed from the Madras Custon－ House

| Y A R S |  |  | FUESIGN EUROPS |  | CHISA |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Capdiet | Value | Cundus | Falue | Conndes． | Value |
| 1883－31 | nuratier 974 | тирен 60． 095 | cuate 7 | rupe An | number $0 \%$ | xuptex $f i r$ |
| 183185 | 5121 | 980305 | 35 | 20100 | 2ras | 1111 |
| 1835－36 | 13 你7 | 9 36,146 | 1 6y | 110.414 | \％1ヶ\％ | 14 a Jent |
| 1830－37 | 13836 | 1013045 | 2722 | 1，80 310 | 28.35 | 4 0 ！ 5 |
| 1937－39 | 1 － 4 | 9＋ 7 | J51 | 20985 | （4，32 | 171 |
| 11936－30 | 3，768 | 804805 | 437 | 51.85 | 14．335 |  |
| 1839－40 | 15，759 | 14 5il3 | 18.85 | 2，72，65s | 6，585 | $5+3$ |
| 1840－41 | 5030 | 67107 |  |  | 5，78 | 351 37 |
| 1811－m | 1．453 | 1080002 | 200 | 17 年7 | 17 215 | 117311 |
| 10．12－43 | 2，305 | 284711 | 42 | 9609 | 40 \＄5 | 2119 |
| 1843－44 | 4，664 | 隹1376 | 350 | 15 11 | 1n \＄14 | $111346$ |
| 1514 | 15339 | $8 \mathrm{Cas2}$ |  |  | 17713 | 1111511 |
| 14，45－16 | 6.514 | $3,38,401$ | 9 | 94 | 5101 | $58 \mathrm{Sa}_{5} 907$ |
| Fartal conduen 7 cinf | 111800 $\operatorname{sit} 0000$ | 73，42，085 | （50．45， 10.570 | 750961 | $1 \times 6456$ $9,36,281000$ | 3 24，4312 |
| Total mext | 4901197 |  | 47189 |  | 5 8 8 |  |

Sratenent of the Quantry（with Value）of Cotion（excepting the Honourable Com－ pany＇s Chena），slupped at the Port of Bombay to all Parts of the World beyond the Presidency of Bombay， 1801

|  | TOTAt． | UNITFDKING |  | CH1NA | 01 If ER |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | rupgeat | rupsee | topees |  |  |
| 1801－2 | 37585180 | 120 \％ 6 | Fopee | 30 at is |  |
| 2802－3 | 6328407 | 10 ， 4 4 |  | 4128 |  |
| 1883－ | 458168. | 2．7， 065 |  | $33^{3} 8.5004$ |  |
| 1801－5 | 8048 | 13154 |  | 7023645 |  |
| 1305－－6 | 3，02113 | 518723 |  | 62380 |  |
| $12000-7$ | The reporia for tuis | wore i we at geat |  |  |  |
| $1807-8$ 80808 | （ 4024238 | 7585 |  | 73 96978 |  |
| $808-9$ $180 y-10$ | 3171523 819400 | r 31.188 1210811 |  | 4110.1512 3814198 |  |
| 1800－10 |  | 1710811 306935 |  | 3514131 33481 |  |
| 1812－18 | 30 22137 | 34500 |  | 30 c）370 | 等 |
| 8512－13 | 23 \％a ar |  |  | 1.2415 | 4 |
| 1813－14 | 始1474 | 1337 |  | 2.6373 | 3 |
| 1814－13 |  | 900 0 |  | m1 03 त a | \％ |
| 1315－16 | － $53 \mathrm{CHP}^{354}$ | 1 บล157 |  | 440.1 | 告 |
| 1810－17 |  |  |  | 41 at teg | \％ |
| 1817－18 | （c） 9015397 | 370148 | 3 68.338 | 40.47543 | 筐 |
| 1818－19 |  | $\left.\begin{array}{lll}6 & 50.197 \\ 20 & 13\end{array}\right\}$ | 85487 | 3148378 | $\frac{5}{5}$ |
| 1819－10 | $\left\{\begin{array}{llllll} \\ C 0 & 67 & 11 & 377 \\ & 6 & 9 & 5.11\end{array}\right.$ |  | yer 06 | 10 ¢1 263 | 0 |
|  | $10^{\circ} 8820148$ |  |  |  | 5 |
| 1820－21 | （0） $3+5 \times 276$ | z +10 |  | 441000 | 2 |
| 154，－87 |  |  |  | 3934，019 | － |
| 2843－23 | （const intin | ＇911） 19 |  | an 07056 |  |
| 1823－24 | 61 加 43 | 413 |  |  | 5 |
| th $t$ 2s | 527 | \＄4．309 |  | 4 73 |  |
| 1 $45-86$ | 11 mins | t 3 cj | 3r： 19 | 7 ¢ 143 |  |
| 1586－d | A 11 （6） |  | 30 200 |  |  |
| 18×7－2Y | 1031804 | 4163 | $32 \times 5$ | 5 F 111 |  |
| $1818-23$ $(182)-70$ |  | $17+121$ if 1159 | ＋64 | 4． 61.1 |  |
| 1830－51 | \％ 0 － 017475 | 14， 710 | － 13.34 | 6131613 |  |
| 1811－32 |  |  | 12，${ }^{4}$ | 53才＊904\％ |  |
| 3432－33 | 12150 |  | 1037\％ |  |  |
| 2133－3t | 3 ， 77818 | $33 \pm 4$ | 41938 | 植 1531 |  |

Statemeat of the Export Cotton Trade of the Port of Madras－（contenued）


Grambar Statistucs of the Cotton Trade of Bombay from the lst of January，1834，to the 31st of December，1846，compled from the Ofteral Records of the Bombry Custam House

FXPOTS

| PE810D | GREAT BHITAIV |  | FORBIGN EDROEE |  | CHINA |  | STRAITS OF MALACC 4 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 muads | volne | Pounds | Valae | Panods | Yalue | Poundy | Ynlur |
| 1 Jan to 30 Aprl 1834 | nuabher $17+k, 644$ |  | nnubler | ruper 44935 | $\begin{aligned} & \text { nutober } \\ & 2070 \rightarrow 490 \end{aligned}$ | rapeess <br> 32045 | ntuaber | rupees |
| 1434－35 | 3177714 | fatsila | 1868272 | 63716 | 24200278 | 574 栩 | 575929 | G8750 |
| 180N－3C | 457，05 514 | 16， 0,54045 | 1137740 | 2） 480483 | 3 m 7 15 1101 | （3） 89314 | 3.13 20s | $4{ }^{4} 72$ |
| 3436 | 48173 E61 | 10236343 | 4.3072 | 7320 | 44764364 | 7013）${ }^{\text {c }}$ | （9920681 | $103 \times 17$ |
| 184， 38 | 2 $4100 \times 2$ | 如44．253 | 2 cf 052 | ${ }_{57} 585$ | \＄4171923 | 80 25 130 | 1170000 | 10 |
| 10．4－39 | 3，18109457 | 40469 | 2.3347 | 31403 | 65072319 | ${ }^{212} 21393$ | 4018139 | 37419 |
| $1 \mathrm{k}+9$－ 411 | 36001134 | ${ }^{201} 14303$ | 27310 | 41310 | 2，168999， |  | t $7298 \%$ | ＋17943 |
| 1516－41 |  | 11854.7 | 642489 | 831．8 | 33711019 | $4.8{ }^{\text {a }}$ | 1，36081／2 | 1818352 |
| 1115 | in 4＋sobl | 1144793 | 111718 | 14818 | 47469464 | 190 N 146 | 7447007 | 1054 |
| 1842－4 | G38 51011 | 6＊ 020183 |  |  |  | 948544E | 48093 | 6，28 AT－4 |
| 18．3 3 － 5 | 91781825 | 51044169 | $23 \times 75$ | 3425 | 77851 t10： | 1151408 | 1079892 | $120.3+$ |
| 1614－45 | 52 at 184 | fit ks 4 t | 176，936 | 12，76． |  | 8874428 | 1535714 | 1710 |
| 3x：－ 15 | 47105311 | 6331408 | H3SN3 | 95417 | 717758187. | 7654330 | 2768,904 | 2.75380 |
| 1 Miay to 3 L C Itat | 34 6440． | $350 \mathrm{H}_{212}$ |  |  | a 16 cs 042 | 3108,241 | 24440 | 21.458 |
| Tutnt lios | 770065818 |  | C2s）asy |  | 686634981 |  | 3，32993 489 |  |
| 7 ni ewty | 60248161 |  | 4213 |  | 638067 |  | 7 ${ }^{0}$ ， |  |
| loual candies |  | 110480037 | H030 | 54．463 | 8718141 | ＋13 81795 | A2， 174 | 4878765 |
| Aver Eef 13 years | 7t 303 | 8438164 | 018 | 5118 | 07370 | $1 \mathrm{x}, 518$ | $3 \mathrm{L67}$ | 3483 |
| $\boldsymbol{P}$ ¢10D | ANILLA |  | I EASIAN GUIP |  | ARADIAN GULF |  | COAST OF APEICA |  |
|  | Po sus | Value | Poudd | Valae | 1 rands | Valur | Poundy | a aluch |
| 1 Jnot to 30 Aprit 1834 | 4\％ 65 | rupers | nambr 289300 | xupecs $47+7$ | numb r $4,34724$ | tupers | puraber | taphes |
| 184，4－35 |  |  | 7 cous | 15160 | J， 36 uge | 1 CHOg | 2］ 193 | 3 494 |
| 1815－915 |  |  | 444，37 | 14625 | 17 un 10 | 231423 |  |  |
| 1216－37 |  |  | 136 obg | 14815 | 1430192 | 203 t 4 | 8694 | 1219 |
| 18． $37-38$ |  |  | 4.3511 | a）M1 | 5614634 | 1435 is | 75314 | 1535 |
| 1x50－51 |  |  | 1，32， 36 | 15，130 | \＄0 43 87， | 15543 | 2） 51.58 | 4175 |
| 1614－10 | $200780$$\text { 1, } 3118$ | $\begin{array}{r} 27953 \\ 11 * 44 \end{array}$ | 51560 | －19 9es | 10．3， 740 | 354937 | 105504 | 13 431 |
| $1449-11$ $3 \times 15$ |  |  | A 48 | 6970 | 10 Ear （xly | 176164 | 1680 | 112 |
| $3 \times 172$ |  |  | 20348 | 1745 | 472188 | $115 \$ 12$ | 74 为 | A，498 |
| $1 \mathrm{ld2}$ 2－ 43 |  |  | 130125 | $1{ }^{18}$ | 71435 | 71 小， 3 | 36.4189 | 3176 |
| $4 \times 13-16$ |  |  | $1{ }^{1} 1{ }^{1} 3$ | 2057 | $790 \times 9$ | ${ }^{1} 2$ | 112488 | 1201 |
| 1845－ 180 |  |  | 14.35 | 40 \％ 0 | 1093 枚页 | 107877 | 19830 | 20.1 |
|  | 21672 | 2，000 | 4,81510 30907 | 46413 3011 | 931 36102 | 91 39858 348 | 71110 | 9814 |
|  | $\begin{array}{\|r\|r\|} 1132 & 02 \\ 0 & 35 \\ 150 \\ 1589 \\ & 189 \end{array}$ | $\begin{aligned} & 14 \times 47 \mathrm{t} \\ & 114 \mathrm{x} \end{aligned}$ |  |  |  |  |  |  |
| Total cy is |  |  | 2476．714 |  | 1，3020 391 |  | 488651 |  |
| 1）inl cinde |  |  | isth |  | 12161 |  | 450 |  |
|  |  |  | $3 \mathrm{Co4l}$ | $3: 304$ | 17484 | 1807206 | ${ }^{423}$ | 5820.4 |
|  |  |  | 453 | 3 c，uct | 135 | 139016 | 18 | 44.7 |

Generay Statisties of the Cotion Trede of Bombay，from 1st of January，1834，to 3Ist of December，1846－（comunued）

| PERIOD | GALGUT1 4 ， |  | WA）$A B I R$ WND：CUTCH IND |  |  |  | $\left\lvert\, \begin{gathered} \text { Parson quberdingre } \\ \text { to Boarbay } \end{gathered}\right.$ |  | 4 TE OTHFR QUARTBMS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fonpd＊ | Valac | Pounds | balue | ， 1 sumdis | 1 lue | Prands | Value | Pounds | Yatar |
|  | ancinimer 17052 | $\begin{array}{r} \text { raperes } \\ \quad 2, t a 0 \end{array}$ | manizer 82,509 | xupees ${ }_{\text {cin }}$ |  | rupese | namber | rupee | numiacr | rapees |
|  |  |  | $\begin{array}{r} 82969 \\ 111325 \end{array}$ |  |  |  | 18 $1+189$ | 2025 3459 |  |  |
|  | 3 384 | 32 Km | $3^{3} \mathrm{Cls} 3 \mathrm{as}$ | 4 com | J 360 | 2\％ | 18484 | 3145 |  |  |
| 1＊36－87 |  |  |  | 11410 | 14． 26 |  | $82 \times 12$ | 1155 |  |  |
| （357－34 | $\begin{array}{r} 2370 \\ 0,3,5 \end{array}$ | $\begin{array}{r} 19835 \\ 1649 \end{array}$ | 107  <br> 1 5 <br> 102  <br> 25  | 17200 | 8，4hr | 8.2 | 23956 | 2 La | 10，046 | 1031 |
| 1838－30 |  |  | $\begin{array}{r} 141.32 \\ 80,88 \end{array}$ | 1700 | 4615 | 5397 | 819 |  | 1 1．17， | 74z |
| 1839－10 | 157117 | 28， 10 |  | 7635 | 3254 | 1359 | 1732\％ | 1460 | $4{ }^{4} 84{ }^{5}$ | 9119 |
| 1840－41 |  |  |  | 2,3 | 31.1212 | 4010 | 11.8 | 150 | 40\％ $6^{6}$ 管 | 2，764 |
| 1841－1 |  |  |  | ${ }_{417}^{430}$ | $3{ }^{3}$ | 314 |  |  |  |  |
| 194－43 |  |  | $\begin{aligned} & 6241 \\ & 2,01 \\ & 7 \$ 10 \end{aligned}$ | 21. | 7771 | 873 | $2 \theta^{6}+1$ | 480 |  |  |
| 1843－41 | $\begin{gathered} 957098 \\ 24+4414 \end{gathered}$ | 38．183 |  | tin |  | 16 n | 73．3． | 3 | $6{ }^{6}$ ¢ 3 | 604 |
| 144： |  |  | $\begin{aligned} & 23367 \\ & 33026 \end{aligned}$ | $\begin{aligned} & 246.6 \\ & d+15 \end{aligned}$ | $\begin{array}{ll} \mathbf{a} & 140 \\ 8, ~ & 140 \end{array}$ | $\pi 7$ | $8 \times 10$ | （0） | 2780 | 2，966 |
| 1 May to 31 Dece 1896 | 4．115 | －${ }^{\text {che }} 382$ |  |  |  |  |  |  |  |  |
| Tocal lba | $\begin{array}{r}25,719 \\ \hline 23048\end{array}$ | 20， | $\begin{array}{r} 9,03647 \\ 58465 \\ 1159 \\ \hline \end{array}$ | $\begin{array}{r} 1215.010 \\ 4.010 \end{array}$ | $\begin{array}{rr} 2.14 & 20 \\ 1 & 14 \\ 2 & 1 \\ & 3 \\ & d y \\ \hline \end{array}$ |  | $11+779$1035 141 |  | 30807 |  |
| Tolal cuts |  |  |  |  |  |  |  |  | 110 |  |
| Tuinicardes | $3 \pm 47$ | 2，440CO |  |  |  |  |  | 15，5916 | 1016 | 10.417 |
| trerage of i3 years | 253 | 41.97 |  |  |  |  |  | 124 | 15 | 154 |

Grand Total．

| PERIOD | Poands | Fandred（if＇t | Condies | Aversge Yaing per Cabuly | 7alm |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ist Jum to poith April |  | namber 8048023 | 2umber 40899 | rupeers | ropeen $5874=0$ |
| 134－ | 6， 4 83 1，45 | 270.15 | 84.532 | 15020 | 1200 n jot |
| 2035 | 784.598 | 70105 | 1 1［1 13.2 | 1203 | J 289 14 |
| 10゙す | 11，340060t | 163！ 415 | 18377 | 120 | 1 ¢7 778 |
| 1837 | 9，4317 | A．74046 | 181288 | 14－37 | 1 3964， 711 |
| 1848 | $1614,89 \mathrm{CHy}$ | 9061.3 | 18.151 | 1068 | 1332045 wk |
| 28.19 | 9 83.30105 | （1）32，30\％ | 17018 | 1\％2 20 | 1461778 |
| 1540 | 13，1 10304 | 1176049 | 1 4\％300 | 1118 |  |
| 184 | 1\％10\％6ill | 1.427237 | 2，05，190 | 1050 | 2， $4 t_{1} 75110$ |
| 1472 | 14，74，4 4801 |  | 1.92320 | 10050 | $1+30^{5} 86.326$ |
| 1843 | 178453726 | 113680 | 省16（2） | $00^{2}$ | 2 itc 3 ， 33 |
| $1 \mathrm{~N}-1 /$ | 2345,8 409 | 11 10843 | 17t 406 | 893x | 13 3 10， 214 |
| 3145 | 24， 45.210 ， 96 | 21.4581 | 10t314 | 9518 | $13 \times 0{ }^{2} \times 63$ |
|  | 6，72， 50.80 | 6， 00 （ 455 | 65，770 | 7t34 | 54，04， 211 |
| Theral the | 14244 48，729 |  |  |  |  |
| Tond cart |  | $1,36,1450$ |  |  |  |
| Tetsil samaluct |  |  | 10，45081 | 10981 | $2132,45,083$ |
| Awerage if lit yorin | II 74.03 nct | 1047351 | 143，692 |  |  |




Starfuervt of the Value of the Dxport Cotton Trade of the Port of Tutsonn（withm the
Madrus Presidency），compled frous the Othenal Records furathed from the Madras Custom－House

| \％ 810 D | treat Brilain | Marwing $\mathrm{E}_{1}$ 1rupe | Chind | All ather Qularbsh | Teras． | alac | （REMARK |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3639－34 | rupers 2A 308 | ruyces． | ropaea | rivperns $[3,5 j \mathrm{~N}]$ | tupeex | $\begin{aligned} & \text { peest } \\ & 2,765 \end{aligned}$ | To Brambay these |
| 1031－35 | 4276 |  |  |  | 32970 |  | rekzena are xelud |
| 153 3r | 1 1禹14 |  |  | 84610 | 127 lad 3 | ＊掅 | ed from the export |
| 1836－37 | G074 |  | 51542 |  | 151234 | 2， 068.894 | fende of Tonaconty |
| 187\％－39 | 79 And |  |  |  | 74.690 | 8.49 | 2 they miter mab |
| 365＊－39 | 2 t 97 |  |  |  | 24n67 | 10854 | cond tline unto |
| 1．1934－40 | 840113 | 40630 |  |  | 3，\％${ }^{\text {a }}$ | 1103 | theg geoeriti export |
| 1454．－11 | 1758 |  | 9490 | 485 | 2.53108 |  | ribat mont tran |
| 1415－42 | 744526 | 47，298 |  |  | 91518 |  | （lumbin） |
| 1813－48 |  |  | 3 60 492 | 788 | $4+10103$ |  |  |
| 1819－4 | 142618 |  | 40．300 | 8\％8 |  |  |  |
| 1645－413 | 37 $4 \times 3$ |  | 022848 | 14150 | 6，54 50 | 11 584 | Fowas 98，004 |
|  | 18 148 | 67 948 | 20．5s＋out | 44，4．2 |  |  |  |

[^15]Gexeral Statistacs of the Import Cotton Trade of Bombyy，from the lat of Jaduary，1834， to 31st of Decenber，1846，compried from the Ofterad Reeords of the Bombay Custom House
mports

| P显相000 |  |  | CONKUN |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quant iy | Value | Quant＇ty | Yalue |
|  | 7hes 2 2th 51 s．t．t | t4ak ext | $\begin{aligned} & \text { Ibat } \\ & 8.71 \text { fils } \end{aligned}$ | Trpeter |
|  | $22^{\text {an }} 51$ 71 | 208065 3110531 | 18377548 |  |
| I574－36 | ＊ $4 \times 54$ | $\omega 12$ | 2．as d 390 | 34189 |
| 1830－87 | 74.12587 | 9\％r， 35 | \＄14 7257 | 2479－30 |
| 1430 |  | 16137364 | 16818401 | 26 \％ 791 |
| $1038-39$ | 60518123 | 315018 | 80585 |  |
| 1\％1－7a | 80 an 19 | 36948 | $4.600^{4} 0490$ | 4511317 |
| 188（）－41 | 9 46 00004 | 14151544 | $4 \pm 611149$ | $55^{4} 46407$ |
| $1411-12$ | \＃6 1097 | 49340 | 51315194 |  |
| 1 $123-43$ | 66， 6 ［5 | \＄ut dis |  | 5717 |
| 1 $53-41$ | $71: 5107$ |  | $4011+8.610$ | 49，es 4 |
| 1H4－4b | $04824 \times 3$ | T 123 in | $270 \times 430$ | 4219＋62 |
| $1 \times 15$ | \％113 240 | 4.1339 | 2．79 28\％348 | 4313,870 |
| 1 3tay te 31 Dete 184t | 2，43 41167 | 45.419888 | 94tj661 | 835281 |
| Touad lut | 77 \＄13 19，308 |  | 399926,936 |  |
| T tal cwti | 601． 548 |  | 3470776 |  |
| Toini camates | 598.793 | 1012，87 480 | 510111 | क， 0 4，82 271 |
| Averare of thurtcen yeara | 70，369 | 7791315 | 30283 | 83 J0 94t |

Gemeral Imports of Bombay，\＆e－（contnued）

| PLRI01 | MAloabar and canara |  | CUTCH AND SClVDE |  | ALL OTIERR QUARTBRS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | $V$ alue | Qumatity | Value | Quaxtify | Value |
| 3 Jan to 34 Lpril 3884 | $\begin{gathered} 169 \\ 1620588 \end{gathered}$ | rupect $20312$ | Ibe 47 8，0 | Fape as | $\begin{aligned} & \text { 1bin } \\ & 60,363 \end{aligned}$ | rapees |
| 1614－as | $7{ }^{5}+4060$ | 05 53270 | 1 1t3095 | 10 m 2 |  |  |
| 1835－36 | 13 3） 6014 | 1596737 | 8 as lery | 110418 | 5，35090 | 77355 |
| ハ小引析 |  | 1540 （15 | 4134112 | 0.11338 | 0,25880 | 40488 |
| 1＊5－35 | 1189171 | 17148 | 5454169 | 766 | 15098 | $1{ }^{647}$ |
| 1 14 $5 *$ | k－95 183 | 132178 | 22.42519 | 304001 | 42 sib | 9185 |
| 123－40 | 55024 | 748411 | 106515 | 177502 | 4126 | f33 |
| 184－11 | 1519797 | 3.30083 | $3001 \times 6$ | 13 रg 40 | 22763 | 2332 |
| $1814-41$ | 171076 | 2031908 | $34,82{ }^{5}$ | 47079 |  |  |
| $1+12-4$ $1+13$ | 17283861 |  | 491112 | 584 | 88，814 | 9899 |
| $1+4$, $14-4 t$ | 20 H2 284 1300011 |  |  | 19181005 1830505 | 37246 1616 | 4211 |
| 1s．1－${ }^{\text {to }}$ | 45042118 | 1714249 $12.12, ~+2)$ | 11045468 0605 |  | 1616 | 290 |
|  | 650 $513 \mathrm{J6}$ | 6 \％ 168 | 408978 | 306 |  |  |
| Tosalliz | 151803808 |  | 70． 60 Tos |  | 1434787 |  |
| T int cuta | 13616 |  | 519 468 |  | 12810 |  |
| Tutul e ndess | 197748 | 184745045 | 89 408 | 36，58，313 | 1，850 | 105,045 |
| A cy to of thirt en vears | 14.9 ¢ EH | 1481276 | 6 \％ 64 | 6 66．192d | $1+1$ | 15073 |

Grind Total ot Cotton Imported into Dombay

| PFIFOD | Qumatis | Quantity | Qranity | Averbge Vatue per Candy | 7alue |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1try | cstsy | cand ma | Fupics | 5 T040\％ |
|  | 3，40\％5 AE2 | 64373 | 24134 | 9810 | 87 b 5129 |
| 1615－35 | 55.9124 | 4， 3,571 | 成跎 7 | 9764 | G6， $\mathrm{F}+14$ |
| $135-76$ | 7514 653 | 673140 | 94， 23.4 | 111 7a | 141215 |
| 1 45－37 | 1256834 | $10 \quad 7918$ | J 36717 | 10171 | 15.10157 |
| $1 \times 1-38$ |  | $58+497$ | 120344 | 109 | 13 ¢ ${ }^{1}+15$ |
| 1 小－9 | 10 $\times 3$ 26060 | $1074 \times 5$ | 1 50.204 | 118.45 |  |
| $1831-16$ | 6 ¢1 $6 \times 13$ | 532352 | 7408 | 104 | K0 5142 |
| 1540－11 | 1830483 | 648708 | $\underline{11} 16$ | 110 Am | 2，3＋1tios |
| 15＋1 -14 | 150\％151 | 1114 sos | 16.6401 | 位75 | 15t35（0） |
| $1 \times 4$－ 5 | 13,1 crifi | 1201780 | 3119 | 918 | $1)+4$ |
| $113-14$ | 14.7199 | リス20 | 1 的佼3 | 378 | $1 \mathrm{~K}+30,180$ |
| 14．4－45 | $11) 1 \leqslant 30$ | 163 +5 | 147 rc | ［12 in | 131702086 |
|  | 11568yt3 | 10 15 \＄ | 11326 | स）${ }^{2}$ | $17 \%$ 3148 |
| 1 U4y to 31 Diceminer 1840 | 1 dtal $\mathrm{w}_{6} 7$ | 73 析 | 5575， | 945 | 44t 20 |
| 1 tata | 14617828 | 12513863 |  | 1400 | 17 拫极 615 |
|  | $10 \times 1,092$ | $1 \mathrm{rx}, 75$ | 137 3 \％ |  | 147846 |






 import cotkun trade of the port

Genezall Statement of the Export Cotton Trude of Lada from 1833-34 to 1845-46

| PBRIOD | BOMHAY |  | catatita |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantry | Fulue | Quantity | Value | feanntity | Talna. |
| 1835-94 | Wita | rupere. | $\begin{aligned} & c \mathrm{Fr} \$ \\ & 105 * 60 \end{aligned}$ | $\begin{aligned} & \text { zupeed } \\ & 1432,001 \end{aligned}$ | covt 14.49t | 20ppen 1.40003 |
| 1 Jan to so Ayril 1834 |  | 6474839 |  |  |  |  |
| 1034-75. | 5,78,423 | 120 07 397 | 247405 | 21481318 | 30214 | E 412 |
| 1635-86 | 701008 | 1738928 | 428856 | 68.63777 | 1,06334 | 25 0 年4* |
| 1846-97 | 10, 31815 | 176,77 778 | 810.584 | 2833337 | 1,9-933 | $3_{5} 0805$ |
| 14337-38 | 9,70046 | 15964341 | 1.49 Ic | 15616 | 30 254 | 5,10971 |
| 1838--99 | 906, 189 | 142.40590 | 171 dt | 29921889 | 83 359 | 1460085 |
| 1839-40 | 8,33, 3 dod | 146,47 713 | \% 3icicos |  | ${ }_{1} 36.606$ | 93,57195 |
| 1810- 41 | 1175048 | 19014495 | 138503 | $19{ }^{2+2} 287$ | 105819 | 1574 397 |
| 1848-48 |  | 81079410 | 01050 | 12,05,347 | 1 10, 714 | 250.115 |
| 1248 - 419 | 12, 18.395 | 189989080 | 3 46.1200 | 1716.824 | Stis 178 | 29989,490 |
| 1845 - 4 | 1539837 | 21058233 | 118909 | 2085.140 | 114812 | 1403,535 |
| 1844-15 | Jt99,847 | 18588244 | 148,314 | 201845 | 1,59,504 | $21.1984 t$ |
|  | 1150181 6,00455 | $\begin{array}{r} 1,7698993 \\ 68.08,311 \end{array}$ | 08,509 | 9,33164 | 59.972 | \% If 189 |
| Tetal | 13615699 | \$1,34,55 923 | 9264,788 | 3 or 19007 | 15,29 143 | 2,28,11634 |
| Auntral nvernge | $10.47,381$ | 1.6404808 | 174,385 | 13 320047 | 117626 | 2 t 5173 |

Gensaral Statemeat of the Export Cotton Trade of Indas from 1833-34 to 1845-46(controued).


Abstract

| PORT | PERIOD OFTHIHTEEN 1BARS | QUANTITY |  | YALUE |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Topale | Avountaterage | Tutal. | Annuil Aserage |
| Bomplay Calcurtion M dra 7 utichita | 1 January 1844 to 31 Dreember 1845 | 1 36151509 | 104564 | $\text { 210pens } 32,35$ | $\operatorname{maprex}_{104}$ |
|  | 1 thy ISsa, to 30 Aprit 1844 | 1314238 | 174175 | 2,01 14007 | 2354040 |
|  | Durco dito | 13.26143 | 11.186 | $2 \mathrm{La} 11 \pm 0$ | 1754 |
|  | Disto diteo | 374384 |  | 578 | 3, ${ }^{2}$ ) 694 |
|  |  | 1775014 |  | 2715.53489 |  |
|  | Anatal aromge of ganatity and valuef of tiftecn yrare for all lodita |  | 13.68 .746 |  | 208 64.723 |

Starement showing the Extent of Cotion Cultivation in the Surat Collectorate for the Years undermentioned, its Proportron to other Cultivation, its Assessment, add tis Average Produce from a given Quantity of Land


Statemint hhowng the Annual Produce of Five Aores of Soll of Average Description, the Assessment thereon, and the Average Market Value of that Produce, in on Ordinary Sasison, in the Sholapoon Collectorata


Statrment showing the Dxtent of the Cotton Cultivation an the Sholapoor Collectorate, for the Isars undermentioned, its Proportion to the other Calasation, its Assessment, and ita Average Produce from a green Quantity of Land





 fxed a



Stapemeat showing the principal Greus, then Average Ancual Produce of 100 Beegas of Land, Government Assessment on the same, and the Average Market Value to the Cultuvator in the Collectorate of Surat.


The cost of production of cotton to the ryots as estumated as follows, supposiag thirteen beegas of average zeraet laad will produce one Surat candy of clean cotton, or 784 lis

Average government assessment on thirtecn beegas of land
Ploughang before sowing

| $R_{s}$ | $a$ | $p$ |
| :---: | :---: | :---: | :---: |
| 39 | 0 | 0 |
| 6 | 8 | 0 |
| 0 | 12 | 0 |
| 3 | 4 | 0 |
| 9 | 4 | 0 |
| 6 | 8 | 0 |
| 7 | 0 | 0 |
| 3 | 4 | 0 |
| 69 | 8 | 0 |

Should the above land be cultivated, as is generally the case by the ryoss, by means of his own bullocks, and the ground betng weeded, and the cotton preked by the members of has family, of course the profits on the produce are much greater

Allowng that thirteen beegas of land would yreld abont sixty-six maunds of kuppus which can be sold for eighty-one rupees four annas, after deductung the foregong amount of expense, stxty-nine rupees eight annas, there remans a nett profit of eleven rupees twelve annas to the cultivator

The price pad by merchants, and the charge mocurred by them for the sixty-six maunds of kuppus, the produce of thrteen beegas, are eatimated as follows -

as the exponse ineurred py merchants for one candy of clean cotton, ready to be shipped on boand she boat.
"There are seventeen places enumerated below, where screws are fixed, and temporary sheds erected for cleanng cotion but the chief places where sales of cotton take place are the city of Surat and town of Raadier

| 1 | Oolapor | 7 | Kulargain | 13 | Kupletha |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 2 | Randıer | 8 | Barracha | 14 | Surbhon |
| 3 | Vindroee | 9 | Sunnaa. | 15 | Bardolee |
| 4 | Morthan | 10 | Puraut | 16 | Hansapor |
| 5 | Uclurun | 11 | Pandusaa | 17 | City of Surat |
| 8 | Kudrama | 12 | Eklera |  |  |

"The partes who establish 'stars,' or warehouses, generally purchasc cotton from the ryots just as it is preked, they then separate the seeds by meana of churkas, and sell it to the cotton brokers, who purchase for the merchants The enhancement in the price is not considered to be very great durug the transfer, probably not more than two or three rupees a candy
" Jn reply to your second letter, dated 23rd ultumo, on the same subject, I have the honour to state that I cannot suggest any mode of cheapening the production of cotton in this district, the most obvious plan would be by a reduction in the assessment of the land cultuvated for cotton but thes I am not prepared to recommend, as I do not consider the rates too high on the land in which it is generally produced, this description of land, when not cultivated with cotton, pays readily the assessment from the gran it produces, and it should be borne u mind that a great redpction has already been made in the rate of assessment per beega on land generaily througlout this zulah, and that the cultuators have been relieved from many heavy payments on account of veeras and other cesses
"I am informed that the cotton generally would produce a lugher price $n$ Bombay and the English marhet, and the cultavators would consequently recerve greater remuneration, were it not that they deteriorate us quality in many ways to add to 1 is weight, such as exposing th to the nught dew, which ajures its colour and the other modes adopted by them for this purpose render it expensive and difficult to clena If the cotton crop could be purchased by merchants or therr agents while standing, and Ficked and the seed sepurated under careful superntendence, the best results might be amucpated
"I mas add, that a change in the seed used would probably lead to an improvement in the produce, but this pont has already I do not doubt, come under the consideration of the commattee -Report on Iadian Cotton

## MISCELLANFOUS SIATISTICS OF THE PRODUCTS, IMPORTS, AND IAPORT OF COTION WOOL

IT is remarkable that Hudoostan was, for centuries previous to other countries, the region which we find celebrated for both the growth and manu facture of cotton Herodotus alludes to woven cloth made of cotton wool, constituting the vestments worn by the Hindoos, and, from being generally worn, its gronth and manufacture was probably common for many centuries before the ame of Herodotns, who wrote about 445 years before the Cbristian era. In the "Peryplus of the Erythrean Sea" (Perplus maris Erythrea), written by Arrim, we have an account of a trade in Indian calicoes, and both Strabo and Pliny also allude to those cotton fabrics, and to then having extended to Persia and Upper Ligypt Arrian navgated and traded on the Iudian seas

Whle cotton manufactures flourished for so many ages in Hindoostan, it is
remarkable that aether cotton wool was cultavated nor manufactured unto cloth In China until about the thirteenth century, and that its manufacture in Furope and America has been comparatively of very recent date

From the meagre accounts we possess of the early manufactures of Great Britam, the pernod at which cotton wool was first imported is uncertain The first importations were from the Levant

Anderson enumerates severnl statutes, \&e, respectrig wool, and waollen fabrics, \&e, in the reigm of Edward III, and refernig to the stupulations made by that prince, with regard to the trading towns of Scotland, in 1357, Glaggow is not named, whule Lanark and Peebles are considered important places The society of merchants of Saint Thomas a Becket were, about the year 1360, exporters of considerable quantities of Enghsh-made woollen cloths Coarse woollens for domestic wear appear to have been woven in Englaad for centuries presious to this perod For Judge Hale (Primitave Orign of Mankind) says, speaking of ancent gulds, "that they were erected in England for the woollen manufactures, as at Lincoln, York, Oxford, \&c., that in the tumes of Henry II and Richard I this kingdom greatly flounshed in that art, that by the troublesome wars in the tumes of John, Herry III, Edward I, and Edward II, thas manufacture was wholly lost, and all our trade ran ont in wools, woolfels, and leather, that by the wise and peaceable times of Edward III, he reganed that art huther again after 100 years discontinuance. Scotland confined its trade for a very long penod to its boroughs"

Spansh wool was used early in makng English broad cloth The Weavers' Company obtaned their charter, without date, from Henry II., supposed to be in 1172, they existed, however, as a company in his grandfather's tme, Henry I, who, according to Stow, gave them a monopoly, but it was stipulated, "that if any cioth were foumd to be made of Spamsh wool maxed woth Enghsh wool, the Mayor of London should see it burnt" In 1197, the dimensions of English broad cioth was fixed by statute, and we find almost in every succeedmg reign, laws for regulating the wool trade and the woollen manufactures By the last statute of the regn of Edward III, Irish woollen cloth, called "frise," is declared of great antiquity, and thas cloth is exempted from the length and breadth required for other cloths by the statute About 1390, Kendal and Westmoreland cloths, called "cogg-ware", are mentroned in a statute, and in another, the followng year, the plain cloths of Somerset, Dorset, Bnstol, and Gloucester, are mentroned Guildford cloths are soon after noticed Glasgow is first, in 1430, mentioned as a place "where commerce was began," and, in 1540, a kw was passed in Scotland for regulating woollen manufactures Henry III, for a fine of ten marks, gave a charter to Liverpool, then a small fishing village, in 1229 It was long after before it became a port of any importance

Although woven manufactures of sheep's wool became early important, those of cotton wool are of recent ongin in Great Britan and in the North of Ireland, yet, in 1641, Mr Lewis Roberts says, in his "Map of Cornmerce,"-"The town of Manchester buys the linen yarn of the Irish in great quantities, and weaving it, returns the same agan to Ireland to sell Neither does her industry rest here, for they buy cotton wool in London, that comes from Cyprus, and Smy rna, and work the same into fustans, vermulions, dmaties, \&e., which they return again to London, where they are sold, and from thence, not seldom, are sent into such foretgn ports where the first materials may be more easily had for ther manufactures" This passage is curtous, and we may presume that the cotton manufactures of Manchester began during the last years of the sixteenth, or very early in the seventeenth century, though their great development can only be dated from the year 1773

The Manchester cotton and cotton velvets which are at first mentioned were, howetur, woollen umtations of those cotton goods, wheh were imported from abroad

Mr Munn, in 1624, gives an account of cottons being imported, the East Indix Company exporting, at an average, 50,000 pieces per annum, but our official accounts are for a long penod deficient, and the rapid extension and chnef production of the vanous manufacturea of cotton, in Lancashare, Lanarkshire, and even in the North of Ireland, and also in the New England States and Switzerland, constitute the most extraordinary branch of industry which the world affords France, Germany, and Belgium followed next in the order of cotton manufacturng countres Austria has also considerable fabrics Cataloma manufactures some, and by contraband, the safety valve of prohabution, imports abundant cotton fabmes into Spain Russia has established several factones, under a permelous system Attempts to manufacture cotton have been making in Holland, Denmark, Sweden, Naples, and Portugal

A great question for the consideration of the people of these kingdoms, is involved in an inquary, of almost vital importance to the employment and sustenance of, not only the greatest mass of the manufacturing population, but to the commerce of the empure, $n 2$, the sources from which, and the necessary quantities of, the rato material, ss to be hereafter obtamed

The greatest producing country of catton wool, the United States of Amenca, has become also a great manufacturng country (see our Report, Part XV, on the United States, for full detalls of cotton crops and of the cotton manufactures of the United States) And, we must in our inquary and conclusions bean in mind, that all the above-named countries are now become competitors in the markets of the world for the raw materal of cotton wool the quantity of which produced in the southern climate of Europe, the two Siches, and Spain, need merely be mentioned as beng of utter insignificance. America, Asia, and

Africa, are the countries upon which we must depend Many parts of South America, and of the West India Isiands, are admurably adapted by sonl and climate for its cultivation But with the exception of the Spanish West Indies, and parts of Brazil, the want of sufficient labour constitutes the great drawback on both abundant and cheap production In Cuba and Porto Rico, sugar cultavaijon is more profitable than cotton In Brazl, even with slave labour, agriculture energy is wanting

The extensive fertile regions of the Britsh empire, alone, might supply, not only the Umted Kingdom, but all the world, wath cotton wool The want of labout, and the consequent high cost of production in the British West Indies, constitutes the impedment, certanly not the clumate, nor the soll Guana has probably as great an area of soll, genial to the growth of cotton wool, as the extent now under cultivation in the United States But the labourers are wanting

Africa, othermse indoubtedly genal to the cultivation of cotton, is in tao hopeless a state of barbarism to yreld a supply, at least, not at an eariy period Egypt lias for some time exported cotton, but even under a compulsory system, the cultivation of cottonin Egypt will for a long period be comparatively hmited*

With respect to Asm, the Celestral Empire demands a large supply from India, or other countries Cochm China, Slam, and Borneo, ire in too rade a condition to grow it in large quantities, although in the two former some is grown, and the sol and clmate of the latter is admarably adapted for the growth of cotton Asia Minor grelds considerable quaptities of cotton in the districts of Kassariah and Anapa, part of which is sent for shopment to Smyrna. and.Cyprus stall yields and exports small quantities of cotton The Dutch East Indies juld some, and might yield much Under Span little pioductive industry can be hoped for in the Philippines, and the growth of cotton wool in those large and naturally fertile slands is trifing in quantity Borneo, of we administer with judgment at Labuan, may in time yield a considerable supply of cotton The south eastern parts of New Holland appear to be well adapted by chmate and soll to veld excellent cotton in abundance,-but there are no labourers in the field, it may be said, no inlabitants Malaeca may also prodace some

It becomes, therefore, almost a policy of necessity to direct our views and

|  | Quantiay | YEA H | Quantity |
| :---: | :---: | :---: | :---: |
| 1883-94 | ludgs | 1839-40 | 1380. |
| 1334-30 | 9804 | 1840-41 | 74.003 |
| 11833-96 | 113 リ10 | [(14),-48 | as \%ob |
| 28750- 37 | 775000 | 1342-48 | 138000 |
| 183)-38 | 8, 4000 | 1643-4 | 3800003 |
| HE*8-39 | 81000 | 1844-4 | 175,000 3 |

our labours ehiefly to Britsh Indıa for a supply of the artacle which, to the United Kingdom, is the most important, next to that of food, which, in fact, more than any other article, has enabled a great portion of the people to pay for fcod

The early accounts of the imports of raw cotton wool are very meagre From the quantity of $1,976,350 \mathrm{lbs}$ being imported, in 1697 , and not more than $1,658,365 \mathrm{lbs}$, in 1749 , and only $3,870,392 \mathrm{lbs}$, in $1 \% 64$, and only $5,198,778 \mathrm{lbs}, \mathrm{m} 1781$, the slow progress of the manufacture, untal the jenny, mule, and spinning-frame came into full operation, is apparent

The following tables are given, the first by Mr Baines, the second by Malachy Postlethwaite (Commercial Dictionary), and the third from both and from official returns $T$ he tables whach follow are all condensed from official statements -

Table I


Table II


## EARLY MMPORI'S OF AUERICAN COTTON FROM AMERICA INTO ENGLAND

Cotton is said to be indigenous in the Lower Mississippian regions, and it is sand to have been used extensively in the western parts of South America, as a material for clothing, before the discovery of those regions by Europeans Our first accounts of $1 t$, as a staple artucle of commerce, is in St Domingo, before 1726, and in Sumnam, before 1733 Ve find that "cotton patehes" were common in Carolina about the end of the seventeenth century, and that there were exported from Jamaica 2000 bags of cotton in 1753, and, in 1768 , to the Unated Kingdom, 2211 bags, $442,200 \mathrm{lbs}$, and to North America, 252 bags

The first import of cotton wool, the produce of the United States of America, was at Liverpool, on the 20th of January, 1785, of one bag from Charleston, February 17th, New Yorls, one bag, July 21st, Phladelphia, three bags, November 17 th, Phaladelpha, nine bags Total, fourteen bags

1786 - May 4th, from Charleston, two bags, June 21st, Charleston, four bags Total, six bags

Tarle IIL—Accaunt of the Iraports and Exports of Cotton Wool, into and from Great Britan smee 1697


Accoonts of Imports sato and Exports of Cotton Wool, \&e , from Great Britan(contonued)


| covNtntes | 1891 | 1883 | 1883 | 1834 | 1835 | 1835 | 1837 | 1838 | 1839 | 1810 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Itals and the fanlina Inamds | 150 8.50 | ${ }^{16} 9173$ |  | 17bs 889 |  | $\begin{aligned} & \text { yhe } \\ & \hline 799285 \end{aligned}$ |  | 168 900404 | aland ann | Ibs <br> 8331699 |
| Alalta | 348845 | 24063 | 1,198 |  | 327 |  | 5205 | 224 | 9 4t | 647 452 |
| Jurkey | 360330 | 2\%9 70 | 489898 | 410730 | 557940 | 657180 | 6088 189 | 500053.5 | 19y 133 | 463983 |
| Syr mond Palestine |  |  |  |  |  | 6) 8178 |  |  | 70 2346 |  |
| Evypt | 775474 | 6.824111 | *53,3/4 | 144 437 | 3181017 | 4807 H1 | 727341 | $47^{4} 1023$ | 2 ach 74.8 | 0.38169 |
| W1 tero Court of Artea |  |  |  | - $\begin{gathered}4203 \\ 3714\end{gathered}$ | ${ }_{15}^{153}$ | [2,944 | 7.1 | 3847 | \$1 964 | ${ }^{2083}$ |
| Gape of Good Hope Hisurit be |  |  | 39 | 319714 | 15377 39570 |  | 45425 |  | 48313 | 70834 |
| St at lunis Company Terrix mee amd coyion | 25605133 |  | 79 733 164 | 32,920 865 | 41429011 | 759085 | 51538072 | 40217734 | 4712,980 | 7701189 |
| $S_{1}$ mi and fingod, iu the lodiran Seas |  |  |  | 3850 |  | 2141 | 7) asy | 41.138 |  |  |
| Ph ippinetwiods | 8120 | 415159 | 37 <br> 175 <br> 909 |  | 39,978 | 23318181 | 80203 | \%2988 | 24010 | ${ }^{4} 988$ |
| Bratah Narth american Cologica | 816916 | 7158 | 1435096 | 3335 | 61507x | 1411 | 17 CO | 12485 | 81.8 | 144 |
| Huy) Wegt indica | 2,4016as | 2010123 | -741662 | 2.756 | 1815274 | 1734337 | 1595702 | 1527334 | 1248.154 | 804157 |
| HA) Cl | $2{ }^{21294}$ | 59 413 | \%49 795 | 223 ${ }^{10} 04$ | 9159 | 智375 | 21800 |  | 171502 | 171423 |
| Culs and ther fare gr wat trdien |  | 219, 56.46 |  | 260203080 | 281458 | 29961201 | ${ }^{520} 52067$ | 497371 |  | 100x mas |
| If thed Staten of Am rica | 219,383698 | 919, 56.7438 | 24T 50 O 758 |  | 281455818 4103 | 290610.639 | 320 6.1 ${ }^{1715}$ | 481987 6 64 | 811898058 |  |
| Columble | 334691 | 993 6002 | 308103 | 1804 *445 | 19043 Fr | 9, 2109096 | 29nasc7 | 2,87194 | 2075744 | 181850 |
| Brazal | 31895761 | 20109460 | 84 503427 | $1020380{ }^{2}$ | 219.16109 |  | 30,940 $1+5$ | 24 Sid ${ }^{2} 05$ | 3 510 | 14.279171 |
| Stutes of tha Hin de la proze |  | 2,723 | 382 | 551 | 18389 | ${ }_{1512}^{1 / 2}$ |  | 10985 |  |  |
| Chat | 108.4 |  | $0 G_{1}$ | 74, ${ }_{4}$ | 2988461 | 16.573 | 29919 | 4, 31633 | 386,72 | 6514007 |
| 1 cru | 57007 | 1194 |  | 4,853 | 1056.61 | 701898 | 44940 | $1316 \times 10$ | 1129.67 |  |
| uther piacen | 110 | 175188 | 9878 | 96,104 | 8758 | 3653.270 | 16tumes | (101 160 | 600 dus | 135137 |
| Totat | 29964.848 | 296,835235 | 303 650,437 | 920887543 | 503702903 | 4009390057 | 407285783 | 307*asam77 | 459,390,550 | 692,493 010 |
| QUANTITIEs of Cotton Wool Re exported from the United Kingdom-(conttnued) |  |  |  |  |  |  |  |  |  |  |
|  | 1831 | 1835 | 1683 | 1884 | 1835 | 1830 | 1837 | 1838 | 1833 | 180 |
| Rutside | $\mathrm{S}_{12748}$ | ${ }_{2}^{1640}$ | $1 \mathrm{lbx}$ | ${ }_{2,587}{ }^{\text {J/68 }} 511$ | ${ }_{\text {J68 }}^{4} \mathbf{9 7 2 , 5 2 9}$ | Them |  | -18* | ${ }_{7}^{51532} 5$ |  |
| Swedyo | 124345 | 13884 |  | 17,498 | 183 N/B | 8814 | 1008108 | 46814 | 24tors | 104225 |
| Jorway | 83,290 | 29203* | 82983 | 89275 | 29227 | 184898 | 03104 | 1*3 38 |  | 45 433 |
| Pexterery | 10 123 | 4581 |  | 4940 | 2.335 | 6,641 | 14315 |  | 4704 | 21.429 |
| 1 russua | 829130.4 | 904688 | 111298 | \$92885 | 848926 | 07711 | 573.391 | 023171 | 804914 | 1813.43 |
| Cermany | 3, 880.636 | 4,960 420. | $0{ }^{3}$ | 69332t | $853476 \%$ | 9823895 | 9360792 | 7216.355 | 8260868 | 11.870187 |
| Hoflesp | 11443 m 2 L | $8,800.717$ |  | 70159235 | 8.75040 | 9004135 | 13983.488 | 8.188 | 9831974 | \$3C2977 |
| Beigium ${ }_{\text {Pran }}$, |  | \%,1,119 | [5 480135 | $3{ }^{3} 1101825$ | $5885{ }^{51} 178$ | 8.913935 | 7764.80818 | 415.4822 | 6,49 6080 | 4, 3483 |
| Prant ${ }_{\text {Spaln and the Bateate colopde }}$ | $\begin{array}{r} 181068 \\ 4003.715 \end{array}$ | $\begin{gathered} 1,119 \\ 2,823 \end{gathered}$ | 843733 | $110182 t$ 280258 |  | 167312 26,155 | 54805 27164 | 105.750 3013 | $\begin{array}{r}618954 \\ \hline 59783\end{array}$ | 2318688 89504 |
| Cthraltar |  |  |  |  |  |  |  |  |  |  |
| Ithly and the italian imsadi | 2,174 166 | 1 108,0\%\% | 1026000 | 7274170 | 3001702 | 2091290 | 2,974,411 | 2,980,750 | 5642.2078 | 6610,560 |
| Stater at thy fic de le Plate Othar placea |  |  |  |  |  |  |  |  | 8,408 |  |
| Olicr placea | 3008 | 14118 |  |  |  |  |  |  |  |  |
| Toras | 22, 303,585 | 18,097940 | 17363898 | 24 461, 1 \%3 | 39779734 | 31730789 | 3972203 | 30,64 468 | 35739234 | 38673 |
| Total quantities retained for home conaumptan in the Uaited Ei form. | 843449688 | 250,4i2 463 | 993,682,076 | 802,935 987 | 326407 007 | \$63.684,939 |  |  | 302000278 | 529 197743 |

Cotron Wool Imported anto the Unated Kingdom from the followng Places during the Years 1841 to 1847 ，moclusive


Nunber of Brgs and Bales of Cotton Imported，Exported，taken for Consumptian，and the Stock on Hand in London，Laverpool，and Glasgow，each Year，from 1830 to 1847， both melusive

| YEARS | Impuried | Sxporled | Trken for Coumbtapion mad dt atroy d by fire | Stact in Loudon the lisk of Jonnary fin each 20 ot | Stoct <br> In Liv rpoos the live $f$ <br> 3 minasy 1m tach 1 car | Stock in binegow the 1 if Jenuary ic onch lyar | Total Sber on tha $\ddagger$ <br> f Jan ung ha <br> c © I＇rer |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | hug | batem | $b$ ter | bage | ${ }^{6}$ Etat | bayc． | bp 1 |
| 1880 | t70730 |  | 603 450 | 7． 0.6 | 203， 230 | 8 Cl | 20．3 42 |
| $1 \times 11$ | 9017㐌 | Fe Gint | M＋2．20s | 42852 | 288100 | 212043 |  |
| 1432 | $9127-10$ | 03.250 | RJR 4，54 | 37381 | 2193.0 | gr 475 | $\boldsymbol{x} 1306$ |
| 183 | 1 11.70 | 79046 | 1777380 | 84108 | 110 | 13085 | 21512 |
| 183 | 510485 | D0A35 | $88 \pm 890$ | 可 143 | 150 | 912 | 4！513 |
| 1835 | 1019300 | 10.110 | 137，616 | 24,2886 | 145，711 | 13 958 | 14．in |
| 1837 | $1: 1404$ | 104 As3 | 1121041 | \％ 40 | 18500 | $20 \times 13$ | 2.17 |
| 1－N7 | 1168 \＄部 | 7 cot | 5 c | $60 \leq 10$ | 201190 | 27 | 4 4048 |
| 1834 | 142.1569 | 302，3 0 | 12 cI 911 r | 64150 | 1 amm | 413 3 |  |
| 1839 | 110.530 | 121489 | 1047511 | 40460 | 24＊+3 | 9130\％ | 4111 |
| 1310 | 1 59\％ 43 | 126045 | 1274729 | 81040 | 2090030 | 27 754 | 2431 9 |
| 14.11 |  | \＄17， 313 | 1116717 | 50 Ec 0 | 36ta， 140 | 2 24s | 4titit |
| 1042 | ［884＊ | 111457 | 1321 ids | 08,46 | 42.580 | $4) \mathrm{lm}$ | $4{ }_{4}^{4} 4$ |
| 1818 |  | 121410 | F Wif fus | 74370 | 41500 | 8083 | ज1才 |
| 134： | 1 ： 331 |  | 1425482 | की प120 | Usht itis | $4{ }^{4} 6$ | in： 3 |
| 1845 | 1，485 460 | 120 部 | 1376 | 011785 | 748,200 | 51 62］ | 940， 1 |
| 18if | 1343701 | 191410 | 14 C 1332 | 09069 | 4 3460 | 5t 4.509 | 104180 |
| $1)^{187}$ | 185900 | 9\％1，¢0］ | 1194 nco | ［7） 4 |  | 45 703 |  |

Statfuent showng the Quantity of Cotton Wool Exported to the undermentioned Ports frem London, Liverpool, and Hull, in the Years 1842 to 1847

| E\PORTED | 10.11 | 1888 | 1813 | 184 | 1816 | 1810 | 1947 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1bs | 169 | liss | libe | 16\# | ibs 3n 100 |  |
| Amaterlame | 3 匆466 | C47 \$18 | 1 7ar Sa | 177308 | 21729 <br> 601 <br> 18 | B.0 $3^{3} 950$ |  |
| Altiona | 3 3,235 | 219250 | 106 ors | 77880 | 83 ab | 630250 |  |
| $A$ mort |  |  | 1790 | 13450 |  | 1844 |  |
| Antwerp | 6797 |  |  | B13098 | 33,380 |  |  |
| ibreumen | 21,313 | 0 510.7974 | 430948 |  |  | 1028367 |  |
| B tigama | 6,988,25 | 8510746 | 2609 [47 | 4839920 | 4,837,34 | 4021634 |  |
| Bapchateur Primat |  |  |  |  |  | 2983560 |  |
| 7lerst |  |  | 03079 |  | 01302 |  |  |
| Bergen |  |  | 120812 |  | 7280 | 5 594 |  |
| Chartalsma |  |  |  |  | 22354 | 534700 |  |
| 11 os |  | 70, 58 | 46.2315 |  |  |  |  |
| Chisuel nestast |  |  | 6, 424 |  | 96910 | Ctima |  |
| Crotst dt | $1{ }^{10956}$ | 1 497321 | 2 s 27578 | 3 181 744 | 2.5249 .58 | 5,sth 189 |  |
| Chrsatias ia | gi 072 | 14971 | 16320 | 13, 13.18 | 124500 | 34378 |  |
| Conatavitoople | 123340 | \$2735 |  | 3. ${ }^{2}$ |  |  |  |
| Coppenlagen Cadiz | 2300 | 104341 |  |  | 67200 | 702 |  |
| Cnjeote |  |  | 5188 |  |  |  |  |
| Coranua |  |  |  | 0032 |  | 35 A 0 |  |
| Cabtea |  |  |  |  |  | 29151 |  |
| Vort | 200278 | 4,809392 | 1348708 | 691168 | 10.4888 | 3,027 510 |  |
| D detz | 347 749 | 618,326 | 208650 | 3 as rist | 1433820 | 903326 |  |
| Jramane |  |  |  |  |  | 18,010 |  |
| J) orm |  | 10867 |  | 6,790 1008 |  |  |  |
| Drontheim |  |  |  | 1008 |  | S779 |  |
|  | 786576 |  | 7 30200 | 9 403 008 | 263104 | [803817 |  |
| © thenburgh | 87 CH | 3,31503 | 614546 | 150508 | 157,803 | 5803817 |  |
| HuFt | 37 498 | 540013 | 163072 | 197 nes | 404092 | 12d 933 |  |
| Fiplurgh | 0,205040 | 12160101 | 9748184 | 11803112 | 7992,520 | $14+5385$ |  |
| ${ }^{1}$ chit Els |  |  |  |  |  | 23875 |  |
| Hong Eatg |  |  | J471480 |  | 71972 | 174039 |  |
| Koubaterts | 85084 | 114862 | 121200 | 30789 | 81290 | 0019 |  |
| Laukis |  | 12,240 | \% ${ }^{\text {¢ }}$ | 1568 |  |  |  |
| Le |  |  | 14936 | 67 A |  | 3310 |  |
| Laituorn <br> Minm 14 | 1232 |  |  | 1320 | 8248 | If T08 |  |
| al ruerlea. | 98,112 |  | 11,314 |  |  |  |  |
| Malem | 1000 |  |  |  | 896 | 1414 |  |
| N fut |  |  |  |  |  | 39824 |  |
| Nubatore |  | 8248 |  |  |  | a 310 |  |
| Atplea |  |  |  |  | 0.42080 | 56) 018 |  |
| N \% Prubamick |  |  |  | \% 73.58 |  |  |  |
| ${ }^{O}$ Otend |  |  |  | 26,050 |  |  |  |
| ${ }^{\text {O }}$ Sterea turg | 91080 $0,468.848$ | 714883 0.745928 | 4968,090 | 7124129 | $\begin{array}{r} 109536 \\ 40356,489 \end{array}$ | 8,320140 |  |
| Prun |  |  | - 508, | 3 3960 |  | 6,520 10 |  |
| P ¢ erdams | 6,303 793 | 9,811379 | 8,705,856 | 5 Lkg cist | 6,108 784 da | 12115 498 |  |
| P. stack | 600.048 | 193984 |  | 1768 | 0720 419328 | \% 7018 |  |
| $\mathrm{Sl}_{\text {Sta }}$ | 950 930 | 1593492 1583 | 469842 44944 | 611904 | 419328 | \$919899 |  |
| Stekt olm | 961004 | 158.346 $1,461,584$ | 18.794 89.144 | +86320 | 708,630 | 89,200 $\mathbf{6 2 0 , 0 0 6}$ |  |
| Stolpe |  | 1027 |  |  |  |  |  |
| Slille |  |  |  | 11312 |  |  |  |
| blabe tine |  |  |  | 8690 $4+80$ |  |  |  |
| Storpcubide | In 2303 |  |  | 197\% |  |  |  |
| T 1 sto | 8888 | 10273303 | 2,959 109 | 2,603008 | 878818 | 06069 |  |
| Trosoluars | 33,463 | 324, 198 | 10,089 | 21.400 | 2,089 | 192348 |  |
| Farel |  | 1580 |  | St 2ias |  | $\mathrm{BJ}^{89}$ |  |
| Fearee |  | 102489 |  | 37 *50 | A174 | 162t, 3 , |  |
| Umea | E, 604 |  |  |  |  | 1494 |  |
| Udicratal |  |  |  | 880to |  |  |  |
| W) whing | 30,840 | 108732 |  |  |  | 9353 |  |
| 4wu. |  | 498.82 |  | 1018 | 19894 | 88539 |  |

## MISCELLANEOUS STATLMEVTS RELATIVE TO COJTON WOOL

Wirn respect to India, the foregoing statements regarding the imports of cotton wool may be considered suffiently complete-lif the consumption of cotton wool were not daily increasing in Amenca and on the continent of Europe The following summary statements and tables may therefore be instructive -

Tage Exports of Cotton grown in the United States of North Amenca

 entimated nswloghang 150 lha en $h$

+ Socmes forelgn eortong inetuded

Neymet of Pounds of Sea Island Cotton exported from the United States

| Y E M $\mathrm{H}^{5}$ | Qumaing |  | Qumplity | 1 | Quantry |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1803 | $8{ }^{\text {3 }}$ +68 859 | 1520 | -11 76 | 1594 | 1651,935 |
| 1806 | 0,006,088 | 1821 | 11364006 | -is | 4.736 |
| 189\% | 4,94 2111 | 1820 | 112806 cas | 1830 | 8,5419 |
| 180] SKmbargos | 9x+01 | $1{ }^{\text {a }}$ | 12130080 | 1387 | A acosil |
| 160\% | 8,664143 | 182 |  | +83\% |  |
| 3810 | E,u64 076 | 1525 | 94, $\mathrm{C}^{4} 8$ | 1839 | 5104504 |
| 14t | 80 3576 | 1396 | 6.95145 | 13.40 | $47^{49} 600$ |
| 1812 (\#xr) | 4 4 4 06 | 1897 | I5 14, 93 | 1284 | - 53 130 |
| 1815 | 4184819 | 1428 | J) 36419 | 1817 | 7 754 99 |
| 1811 | 2340334 | 13 | $13 \times 33.307$ | 1485 | , 3151075 |
| 1815 | 5149 931 | 15850 | 6,147 165 | 12044 |  |
| 1810 | 5, nug 376 | 1831 | 4*11762 | 1747 |  |
| 1817 | -10 1589 | 1.932 | * 4535 | 1184E |  |
| 4818 | [17 40 | 1835 |  | 194 |  |
| 1815 | -1tchat 0 |  |  |  |  |

- The bsipe catumated to weigh zion lben asth

The recognsed distinctions of cotton on the continent of Europe, are as follow -1 The North American, 2 The West Indian, 3 The South American, 4 The East Indan, 5 The Levantine, 6 The African, 7 The Itahan, 8 The Spanisb

The relative value of the above cottons is as follows -Sea-lsland, Bourbon, Egyptan, Maragnan, Balaa, and Pernambuco, Motnl, from the kingdom of Grenada, Cayenne, Sunnam, Demerara, and Berbice, Superior West Indian, New Orleans, Upland Carohna, Georgia, Tennessee, Inferior West Indian, Levant-European and Assatic Turkey, Itahan, Msdras, Surat, Bengal

Gnowfth and Consumption of Cotton in the Umited States of America

| YEARS | Growt | Conctupptian | YEAEE | Grovil | Cangumptiou |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | ${ }^{5}{ }^{\text {cos}}$ | bag |  | bage | liags |
| 1829－朝 | 9785 | 12518 | 1498－39 | 1 \＄60 39 | 2764， 4 |
| 1830－3t | 10388.58 | 18」112 | $54 \%$－ 40 | 217835 | 201970 |
| 1936－32 | 96， 177 | 173 kig | 1450－41 | ${ }^{1} 1034145$ |  |
| 3832－43 | 1070.438 | $184+12$ | 19，1－42 | $1+8.454$ | 207500 |
| 1813－34 | 1.105394 | 16.413 | $1 \times 493$ |  | 325129 |
| 1831－35 | 143.8 | 214，895 | $15437-44$ |  | 34674 |
| 18＊3－36 | ］ 36025 | 236739 | 1441－45 | 2741813 |  |
| 1833－3． 37 | $1+22430$ | 玉2300 | 人45－30 | 2300537 | 124597 |
| 1837－38 | 1001497 | 24163 | 18， | 1.30473 | 177 1697 |

Growtir of Cotton in the United States of Amenca

| PARTICULARS ON GROWTH | 1829－30 | 1830－31 | 16．31－62 | 1882－83 | 1885 51 | 1834－35 | 1635－36 | 1330－77 | 1687－5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1446．7 | bags |  | 3） 89 | hagne | $4{ }^{5}$ |  | bsky | begr |
| New Orleans <br>  | 3151024 | 126， 183 | $322,6,35$ | 403470 | $45+719$ | 641 1416 | 47178 6089 | 343,259 775 | 71138 196 |
| Fhorida | $5 * 87$ | 13073 | 92651 | 29650 | 86738 | 5205 | 79759 | 89703 | 106171 |
| Alobarma | 192 が1 | 113186 | ［2597］ | 129,30 | 129 jta | 107698 | 385716 | 232， 213 | 309867 |
| Trixat |  |  |  |  |  |  |  |  |  |
| Georxim | $9 \times 3117$ | 280 509 | 920 487 | 21520 | 258655 | 229870 | 270121 | 968071 | $40 ¢ 210$ |
| S uth Cur lima | 194675 | $1 c^{4} \mathrm{ldg}$ | 17， P － | 141,840 | 2474 | OH 100 | 831237 | 196，377 | 2.4838 |
| Noth \％mal an | 30，882 | 34.540 | 3 H at | ） 61000 | 38 790 | 81309 | 3 3 50 | 19004 | 43710 |
| Yirgit iz 4 | 35800 | 33655 | 25000 | $\}$ \％ 0 | 14475 | 92170 | 4197 | 24018 | 32000 |

Gnowti of Cotton in the United States of Amenca－（contanued）

| PARTICULAfS OF GRGWTH | 1838－39 | 1839－40 | 18＊0－41 | 1841－42 | 1848－43 | 1853－44 | 18－4－45 | 1843－16 | 1516－17 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Wap，${ }^{\text {a }}$ | batis | bat | hage | basts | bage | Thamat | bags | Magy |
| New（Irleazs Miskingit pi | $\begin{array}{ccc}802 \\ 104 & 4 \\ \end{array}$ | 140705 675 | 8is ${ }^{\text {ch }}$ | \} 787085 | 1060 cta | 832172 | 029126 | ［ 037144 | 703979 |
| Flunda | 5177 | 17627 | 535 2 | 11446 | 161048 |  | 188， 03 | $1+1184$ | 12768 |
| Ilabama | 25］ 4.43 | 44572 | 32074 | 358315 |  | 407， 900 | 617 190 | 423 anti | 323463 |
| Tcka |  |  |  |  |  |  |  | 2－MUS | E 317 |
| G Kla | 2051：18 | 8 an ［n3 | 145947 | 232271 | $2{ }^{2} 4$ | 2＊5697 | 495540 | 1.4311 | 8＋2 4 is |
| 414th（ 5 lion | 230 17t | dta 124 | $2 \sim 4 \mathrm{Ab}$ | 160164 | 351639 | 30，4．47 | 420331 | 251 | 350508 |
| $N$ 1t C rollum | 1） 1315 | 93.14 | 7045 | 9737 | 4839 | 84.8 | 19 985 | 101037 | b 881 |
| 114n！in S0 | 2200 | $35 \times 10$ | 21500 | 91 013 | 15637 | $1 \times 400$ | 20， 290 | $14 \times 2$ | 15839 |

Statement showng the Quantitues of Cotton Wool，together with the Value thereof， asported from the Unted States to all Countries，durnig the Years 1812 and 1843

| COUNTIIE\＄ | 138 |  |  | 1613 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Soa laland Cotcon | Ocher Sorts | V lut | Son 1 land C tud | Otior Soris | Value |
| Wited hiagdome rik－ | 5 cm 03848089 37.5000 |  |  |  |  |  |
| （ $\mathrm{I}_{\text {ctum }}$ |  | 8 F 25 60 | 1319 |  | 1 1437tif |  |
| Printe outi A lantic －atie Medititiadian | 1，545 101 | 143717 10348 067 |  | 424919 |  |  |
| Cul ${ }^{\text {a }}$ |  | 4.392 z ¢ ${ }^{\text {d }}$ | －+073 |  | btmanz | Gfs 14 |
|  |  | 101610 | 301303 |  | 7131098 | $4 \leq 5125$ |
| $\stackrel{r 1}{15}$ |  |  | evor |  | 356182 | 1641091 |
|  |  | 7 06s 386 | 3）70 |  | 461513 | $35013 \%$ |
| If 5 bon |  |  |  |  | 1632.478 | 1013， |
|  |  |  |  | 917 |  | 1603 184 188 |
| Totst | 7 7 1＋159 | 42910 | 4737404 | \％ 3150 | $04 \div 0202$ | $19112 \sin$ |

Exponts of Cotton Wool from the United States, during the Year 1945-6

| WHITHRR EXPORTED | cottov |  |  | WHLTEEA EXPORTED | COTTON |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sce 1slond | Other | Value |  | - Band | Other | Falue |
| Suagin | Jbs | (1bs | $\begin{gathered} \text { dollnen } \\ 4032 t 01 \\ 13 \end{gathered}$ | Brought forward | $\mathrm{Flng}_{3}$ | Ib4 | $\begin{gathered} \text { d ilarx } \\ 29274.3-3 \end{gathered}$ |
| Pramia |  | 14800\% | 110905 | Spain on 23* Mcditurfaniant |  | 11 \$4. | 654 |
| Bmeden and Norway |  | 2555787 | 185891 | Cuba |  | 10095 |  |
| P namare |  | 32284 | 9, 116 | Orber spanimu Weat Indius |  | 14, 10.4 | 1011 |
| Molland |  | 3.819559 | 277500 | Portugat |  | 15.583 | 1701 |
| De! gita |  | 74018121 | ${ }^{294912}$ | Italy |  | 41 19033 |  |
| 2pgiand | 6,502 6000 | $819.971{ }^{8181}$ | 24,146,31] | Saruinla |  | 2341864 | 163.04 |
| Seothad | ET1.174 | 52819646 6379740 | 197611, | Strily ${ }_{\text {Treata }}$ and orther Anarian |  | 710613 | 48,207 |
| Ireland <br> Gibraltar |  | 6379768 $105+310$ | $\begin{gathered} 4 \pi y 280 \\ 7 x, 18)^{7} \end{gathered}$ | Trieste nail other muarian |  | 13,3820 ${ }^{\text {a }}$ |  |
| Mratiak Americang Colonies |  | 47 \$ 0 | 161 | Hexifo |  | 4, $82,38 \%$ | $347 \%$ |
| Pratrce on the A diantic | 2,419,755 | 121 mifl4 | $9497{ }^{4} \times 26$ | China |  | 85700 | 5,65s |
| Bronce on the Modiserrabuan |  | 7,del 480 | $582 \times 30$ |  |  |  |  |
| Carried tormasd | 0,383, 219 | 48, 215 | 30,974,333 | Toric | $0,335,219$ | 6120 625,543 | 42.250045 |

Tef following Table of the Quantity and Value of Cotton Imported mato France, and of Cotton Manufactures Exported from that Country, from 1787 to 1789, and from 1812 to 1843, ws taken from the "Enquête Relative à Diverses Prohibitions, published from Authonty, and from the Yearly Statements of the Director General of the Customs


Faznor Cotton Wool Trade at Hayre－Statement of lmports，Dehremes，and Stocks，from January 1 to December 31，for Ten Years

| YEARS | STOCK 3ANUAEY |  | IMPOETS |  | DELIYERIBS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | United State\％ | All Einds | Unated Statey | Al Kindu | Unitel States | All Kinds |
| 1843 | $\begin{aligned} & \text { mataber } \\ & 43,2000 \end{aligned}$ | namber 50 | numbing | number 330592 | samber $310 \% 37$ | $\begin{aligned} & \text { mumber } \\ & \$ 32,202 \end{aligned}$ |
| 1845 | 88， 200 | 100，060 | $9{ }^{2} 6518$ | 274098 | 308，415 | 326，039 |
| $384 \%$ | 101400 | 110000 | 303， 3 27 | 385， 2097 | $3 \pm 2,038$ | \＄30，373 |
| 2812 | 84000 | 90.040 | $3: 11.15$ | 350,195 | 821：16 | 819107 |
| 3841 | 75000 | 80000 | 341463 | 357364 | 832，403 | 347483 |
| 1817 | 48100 | 87000 | 362．045 | 375043 | 880448 | 332613 |
| 1839 | 305100 | 83700 | 227798 | 294.168 | 209488 | 240,800 |
| $1 \times 38$ | Sa 800 | S3 doda | 203， 365 | 294570 | 2－2，164 | 293， 310 |
| 1437 | 34300 | 45300 | 221317 | 940459 | 230，37 | 271359 |
| 14， | 13\％00 | 18800 | 296510 | 260820 | 204270 | 2.33 5\＄0 |

Statzment of the Qunotaty of Rav Cotton Imported into France and retaned for Con－ sumption from the Undermentioned Countriea，in the Year 1846

| COUVTRIES | Qaantity re trincal if Con sumptina | Quantity mir gurted | cotv | 218S | Qubntity $\mathrm{Im}_{\mathrm{m}}$ perted． | Quantity rem tainied for Con admption |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Katogratmenta 7t（a） | Ltogrammed | Notr Gtenada |  | Kulogramines 15605 | Ellogrambics 10303 |
| N thertards | 348，786 | 348，087 |  |  | 421，480 | 361426 |
| Eoglatd | $78+4$ | 4888 | Chill |  | 24034 | 192804 |
| Tin any | 6，2）1 |  | Texam |  |  | 18882 |
| Turk ${ }^{\text {y }}$ | 44109 | 61848 | Cundnlonpe |  | 18103 | 14680 |
| Eeypt | 1 OEf1 11 | 1 446） 38 | Marthers |  | 3009 | 8359 |
| States $t$ Marinar）－ | 724 | ${ }^{295}$ | Frrocb G nannWrecks nud Salvages |  | 12329 | 145． 29 |
|  |  | 9018 |  |  | 18.15 | 12．45 |
| Preuch ${ }^{*}$ | 5. 8.85 | 541 | Other Countiout |  | 313 | 281 |
| Muptad staika | 47 Cf 093 | 43 ， 0 | Torat | $\left\{\begin{array}{l}\text { IR，} 6 \\ 18.4 \\ 184\end{array}\right.$ | $71,561 \mathrm{Sa}$ | （4） 297438 |
| CHa | 10.019 |  |  |  | 72919，974 | 40 75764 |
| Rran | 05114 | Sf 6 did |  |  | 62411052 | 398920094 |
| F 0 矿寺 | 143 | 18. |  |  |  |  |

Switzerlivd－The folloming quantithes of cotton wool have passed in transt through Franco into Switzerland the hulogramme being more than 2 lbs avorrdupos－

| ） CARES | Etiogrammey |  | EARS | Ritogrammes |
| :---: | :---: | :---: | :---: | :---: |
| 14.3 | $\begin{aligned} & \text { numbur } \\ & 2 \times 38 \end{aligned}$ | 10， 10 |  | nt umbar 9 毋1）（cos |
| 18.1 | 420060 | 18.41 |  | 7367000 |
| $1 \times 35$ | 4987000 | Is 48 |  | 9836000 |
| 1834 |  | 1847 |  | 7622.000 |
| 1337 | 64,13000 | 18.18 |  | $34 \times 0,00$ |
| 1828 | 7124000 | 1 juas |  |  |
| 1900 | 4.4800 | tatu |  |  |

## COIION WOOL IMPORTED IATO THE GERMANIC UNION OF CUSTOMS

Tuc demand for cotton nool in Germany has greath mereased，not that we constler that a wise policy is adopted by the government，or that the system of manufacturing undustry is based on sound principles，but the demand has arisen from the industry of the Germans，which is remankable for steadmess，if not for activity

The imports of cotton wool into Prussia for consumption in 1823 were 39,638 centners, and in 1829, 48,909 centnerr.

After the Germame Union of Customs was anstututed, the progress of the cotton wool mportation, and of the cotton trade with foreggn countries, has been as follows -

TRADE OF the germanic unton of customs in cotton wool and cotton manufactures
Tirforts, Exports, and Transits of Cotton, and Cotton Yarn, and Woven Manufactures


There weie in 1843 within Prussia forty-eight spining-mills, with machinery moving 131,026 spindles, dinded among the following cities, viz -

Breslau, two, with 28,000 spindles, in Liegnity, two, with 6500 spindles, 20 Munster, four, with 2420 spindles, in Arnesberg, one, with 7200 spundles, in Cologne, five, with 14,373 spindles, in Dusseldorf, twenty-three, with 55,939 spindles, in Coblentz, three, with 13,588 spindles There were employed in these factories, under fourteen years, 579 boys and 524 gurls, above fourteen years, 1438 males, 1586 femzles There were altogether 815,000 spindles withan the Germanc Customs in 1843, of which more than 500,000 in Saxany, the remander, exclusipe of Prussia, chiefiy in Wirtemberg and Baden The whole spun about 210,000 centners of towst during the year, or about one-third of all the cotton yarn woven in the Zoll-Veren

AUSTRIA-MMPORTS OF COTTON WOOL.
Part of the cotton wool passed in transit, or exported from the Zoll Verenn

Powers，moto Bohema，and some mato Switzerland The following accounts of the imports into Trieste，and into the Austran erupire，will exbibut the demand in that conntry It must，however，be remarked，that the mports of cotton wool into France，and into the Zoll－Verein，and into the port of Trieste， melude nearly all the cotton wool consumed on the continent of Europe，with the exception of Russia，and the quantities retained for consumption in Holland， Belgium and the comparatively small mponts moto the Italuan States，and mo Span，Portugal，and the states of Hanover，Oldenburg，Denmark，Sweden， and Norway

The value of cotton wool moported into the Austrian empire amounted，in 1840，to $9,686,208$ floms（ 968,620 stering），in 1841 ，to $1,399,873$ florins （ $793,987 l$ sterling），in 1842 ，to $10,284,064$ flonms（ $1,028,4061$ stering），in 1843，to $12,103,540$ florms（ $1,210,354 l$ stering），in 1844，to $11,068,000$ flomens （ $1,100,8004$ sterhng），and in 1845，to $13,669,856$ florms（ $1,360,9061$ sterhng）

The total quantity，in centners of $123 \frac{1}{3}$ lbs each，imported into the empire of Austria dunng 1828，was no more than 65,000 centners，and the following years the quantines are given in the Austisan offictal tables as follows，wiz－

| YEATS | Cutuerm | YRA日S | Centricte | YEAR $\mathrm{E}_{\text {¢ }}$ | Contmett． | YRARE | Centimet |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I＊${ }^{\text {d }}$ | Equmber 202809 | 1836 | nnmber | 1841 | pumber | 5848 | mamber |
| 1－3917 | $15 \times+36$ | 187 | 20） 8077 | 3842 | 821347 | 1847 |  |
| $1+3$ | 111 17 | 18.6 | 23.176 | 18.43 | 370776 | 1848 |  |
| 1\％31 | 1410.5 | 153． | 223 235 | 1894 | 3－15875 | 18.19 |  |
| 58.3 | 150409 | 1810 | 50， 6.14 | 1184 | 427 183 | 1180 |  |

The imports are partly through Germany，but chefly torough Tneste
Intronts of Cotion into Trieste，from 1815 to 1845，inclusive．

| YEARS | Bnios 1 ons th［10itud trates | Pisict from firaz 4 | Balcg Trom liculia． | Bulew from E8を5t． | Bailes from Malea aud 3 caly | Balcs Cripm Ho levate | Tratal Balea |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10.8 |  | nomber | Humber | namber | number | neretwer | nut 5 |
| 14tb | 174 | 1063 | 6） | 1333 | 300 | 12000 | 1412 |
| 181 | 173 | 10S\％ | 46 | $7{ }^{7}$ | 1－6， | 13047 | 1931 |
| ［8］s | 215 | 818 | 15 | 2，R31 | tions | 059 | 12 I 4 |
| $1{ }^{\text {A1 }} 4$ | $3 T$ | 1269 | ［83 | 3189 | 4，${ }^{\text {d }}$ | 12627 | 23314 |
| 3824 | 411 | 459 | 111 | 9， 148 | 41，03 | 12064 | 2as ${ }^{\text {a }}$ |
| it 1 | 08 | 1164 | 30 | 4 d 90 | $t 3 t$ | 13347 | 23.53 |
| 14 | 8.38 | 3306 | 73 | 6543 | 1126 |  | 31701 |
| 16．1 | 1 0 | 3934 | 149 | 15 69 | 165 | 1.104 | 3 rta |
| 1421 | 144 | 207 |  | $17 \times 48$ | 1214， | ＋4093 | $\leq 4.4$ |
| 1 | ${ }^{4} 10$ |  |  | 0312 | 3892 | $1 \mathrm{~W} / \mathrm{l}$ | 30413 |
| 1 | 371 | 18 | 2004 | 2\％ 04 | 161 | 8193 | $3) 51$ |
| 1） 7 | $3 \times 114$ | 40 | 5 5 | 10.38 | 5.32 | 770 | ¢ 172 |
| 18 | 4 （ 8 | 437 | L－3 |  | ＊ $1 r^{-}$ | f 436 | 1010\％） |
| 149 | ） F is | 12 | 2217 | 403 | $2 ⿰ 习 习$ | 19 | 40，439 |
| 1240 | 7111 | $f 10$ | 7bid | 2110 | 69 | 4673 | ＋1迷 |
| 1＊11 | 7721 | 令 4 | 25 | 345 | 47 | $1+7$ | 6813 |
| 15 | $65^{6}$ bi | 337 | 143 | 4 mad | $110 \%$ | 2． 34 | 493 |
| 1＊s！ | 1 19 | 403 |  | 数 Jrier | 8643 | 3141 | CriJ3t |
| 1414 | 1317 H | 2137 |  | $)^{2}$ ， | －4，0 | 07 | 61 cil |
| 183 | 12 | 11 | 1060 | 3 413 | 20.13 | 25 4011 | 14 |
| 1\％3 | 2310 | 2314 | Ifbi | $4{ }^{4}$ | 2411 | 410 | 12． 58 |
| 1． 515 | ${ }^{1} 11$ | 共76 | 07 | 4 in 41 | 1．） | 1．s $5^{5}$ | ［14 4，it |
| 17 | ＋163 | 2.15 | 13 | 10． 701 | 69 | 310 | 14，4057 |
| $1 \times 70$ | 18140 | 0175 | 244 | 1.54 | 1788 | 3971 | Es 46 |
| 1410 | 5：079 |  |  |  |  |  | 81 50 |
| 1 1 | i 7 |  |  |  |  |  | Or $\mathrm{TO}_{2}$ |
| 1 12 | 46115 |  |  |  |  |  | 12.15 Ac |
| INHA | 3 3 30） |  |  |  |  |  | 140 cta |
| tais | $3{ }^{3}+(0)$ |  |  |  |  |  | 40 $0 \times 105$ |

Holilavi -In 1843 the quantity imported into Holland was 6,860,000 kulogrammes, or nearly $14,000,000 \mathrm{lbs}$, value $9,339,000$ francs, equal to about 3,270,000l stering The mports were nearly about 283 francs from the United States, 265 francs from Eingland, 211 francs from France, 075 francs from Turkey, 055 francs from Belgum, and 044 francs from all other places

The re-exportation in 1843 amounted to $4,785,000$ hilogrammes, value $6,524,000$ francs, of which to Germany nearly five sixths Nearly one twelfth went to Belgrum and Holland

Belgidm--Of the imports of cotton wool into Belgium, part is retaned for the manufactures of the country, and part sent onwards in transit to Germany - See Trade of Belgum

About 500 bales of cotton wool are imported into Copenhagen, and small guantites are amported in transit through Hamburg and Altona

Sweden,-In 1830 the quantity of cotton wool mported was 545,124 lbs. In 1838 about $700,000 \mathrm{lbs}$, in $1840,1,215,301 \mathrm{lbs}$.

In 1840 into Stockholm $954,764 \mathrm{lbs}$ of cotton wool, transit, 4142 lbs
Linen Cloth and Thssues of Cotton and Flax -The quantity produced in 1889 in the manufactones, of which there were forty-four, amounted to $1,218,246$ ells of tissue, properly so-enlled, consisting principally of catton cloths and calicoes, and 78,107 handkerchefs, of a total value of $465,580 \mathrm{rd}$, being an merease over 1838 , in quantity, of 112,363 ells, and 15,823 handkerchefs, and im value of $38,999 \mathrm{rd}$

Colton Yarn --The manufactories, the number of which was nine, produced, in $1839,1,138,797 \mathrm{lbs}$ of cotton yarn, being $168,787 \mathrm{lbs}$ more than in 1838 The greatest quantity was produced by the firm of Bohnstedt and Bergman, at Stockholm, being 361,000 lbs

Orficlal Account of Cotton Goods made in the forty four Factones of Sireden duriag the Ten Years, endng with 1840

| YE4RS | Conton Ceads manutbetared in regul 1 Fietories | Cotton Good a mannfaciared by the I casist try of the Go fiment of Eltshers | Toral. DT Colton la $_{6}$ da prodteed | OBSEHVATIONS |
| :---: | :---: | :---: | :---: | :---: |
|  | Blont | Bhars | atmart |  |
| 3931 | 370.19 | 12 7f) |  |  |
| 1817 | Gil 414 | 20ヶ4 25 | $26 \quad 861$ | ma Englob yard |
| 101) | 458 | 2656307 | 3 \#) 0105 |  |
| 3 nst | 445183 | 2.41469 | 5 508 6! |  |
| 16 | 901 ${ }^{\text {a }}$ | 413405 | 3513779 |  |
| 14.3 | 953273 | 3 100 $6(60$ | 4 4 2939 |  |
| 163 | [2itis 1 | 101504 | 486 |  |
| 1833 | 1105 Mx 3 | 3831758 | 4977111 | probibuted were allowed to be imported |
| 123) | ] 15 249 | $40 \mathrm{t}+480$ | 7,304 775 | ith The tarift of 1835 vilich entae falo pfect on the Irt |
| 18.40 |  | 46 n 31 | $5, \mathrm{RO}$ - 3 | Oof Jonumry 1836 gave adurtional facilitues for improtation |

Official Return showing the Progressive yearly Increase of the Manufacture of Cotton fnist in Sweden, as compared with the Quantitics annually Imported, from 1821 till 1845, melusise

| $\begin{gathered} \text { in } \\ \text { n } \\ 2 \\ 2 \end{gathered}$ | $Q$ aotley in Posing Ebe 1the Eotto: Tixit anader an Sweden | Quantaties in Pounds We abt ol Cotion Twint imported aitso \$treder |  |  | Qunctity in <br> Poun is Weight of the Cotton Twist todicictio Sweden | Qungtitiea in P uode Welelat of Catkon Twise i partod sinto Sweden |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Above No 25 |  |  | Promino. 1 in $\mathbf{N}_{0} 2 \mathrm{~S}$ inclusite | Above No 5 |
| 1 A 21 | ${ }^{11} 14.45$ |  | $\begin{aligned} & 368 \\ & 175007 \end{aligned}$ | 1633 | Jbss <br> 209250 | is 10 c 301 | $\begin{aligned} & \text { Itw } \\ & 762157 \end{aligned}$ |
| 16L | 可 4.38 |  | 160017 | 1834 | stes 074 | 102,700 | 6ta 39 |
| 1827 | 40126 |  | 194243 | 1835 | 432404 | 131210 | 76, 381 |
| $1 \times 24$ | 740 | Imporation | $29818]$ | J830 | 675303 | 180520 | 831 501 |
| 152. | 733 | probitbled until | 241813 | 1837 | 675082 | 124 + 20 | 823501 |
| 134 | 87295 | and Imeludian, | 297708 | $1 \times 38$ | ${ }^{87 \%} 910$ | 77377 | 767588 |
| is 7 | (5) 137 | the 500 c 380 | 317788 | 1839 | 1135704 | 15050 | 1.604080 |
| 1625 | $\mathrm{b}^{2} 10.47$ |  | 118759 | 1840 | 1407208 | 209465 | tras 97a |
| 163 | 21 75 |  | $00_{44}^{469}$ | $1 \times 14$ | 1 12e 422 | 426116 | 1303110 |
| 1200 | 12718 |  | 68\% 515 | 18.4 | $109187{ }^{2}$ | 1093534 | 1200008 |
|  |  | 164 |  | 1863 | 1733268 | 301140 | 1100689 |
| 18.31 | 15192 | \$(0) 3 , ${ }^{2}$ | 311432 | 1844 | 2190.805 | 704 634 | $1 \mathrm{1OP} 098$ |
| 187 | 14*3 ${ }^{2}$ | 205853 | 1980,550 | 1815 |  | 750759 | 1182.82 |

 antirely of Engiash twist 3 . Two cotton mallo were deatroyed by fre in the years $18+1-42$ They were soon rebult

Norway -In 1835 there was imported $63,510 \mathrm{lbs}$ of cotton wool, and $112,190 \mathrm{lbs}$ passedm transit In 1841, $219,670 \mathrm{lbs}$ cotton wool, and $661,622 \mathrm{lbs}$ passed in transit

Russia - Tabular statements of cotton wool trade and cotton manufactures, from Russian official report
"Of all the branches of mapufacturing industry, that of cotton is one which has reched, in the course of the last twenty years, the greatest development in Russia, and 1he progices of which has produced remarkable results The state of prosperity which thise sery establishments have reached in so few years, due, in a great degree, to the wre misasures adopted by the government for the protection of this branch of national minders, proves at the same time, how well those measures had been culculated The incieasing activity of which we have spoken, is in itself so remarkable for the sepulanty of it pronressive advancement, that (roteresting as a must necessarily be on this aud mnny other accounts) we consider it our dutv to enter anto some furthea detalls on the subject

Tire folicwing comparative table shows the importation of raw cotion into Russia from 1824 to 1841

| Y PdTS |  | Coston $1 \mathbf{r}$ Klannts of Trokir Tryont | Yu atid <br> by the Atian | YBiRS | Coten from Ametre India Sibyinu \＆c by tit Fipogticye al Ebrope | Cotion 1 khow of 13 kb Ffl | ron th何山 434 by th ANA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1624 | maont 74.230 | Peratin | poodg 55372 | $14 \%$ | protrit | E019 | 7300） 5 |
| 1820 | 79130 | 25257 | （ty 3 （77 | 183 | 14＊$\times 35$ | 3 P | 13 9312 |
| 1820 |  | 58154 | 746043 | 1063 | 29.987 | 1．138 | 2F5，175 |
| 3887 | 50.18 | 1 426 | 67074 | 1936 | 20 0480 | Af． 10 | 257， 13.3 |
| 1824 | （4，1］n | 23206 | ＊2\％，215 | lint | 240151 | 29 ml | 2 F 2 |
| 1829 | ＊ 01515 | 31）ET9 | 134394 | 1834 | at 88 | If 120 | 92x）${ }^{\text {as }}$ |
| 1824 | 65 613 | $\pm 0701$ | 11631妾 | 1892 | $3{ }^{3} 938$ | 20.100 | 304832 |
| 1631 | A ${ }^{\text {¢ }}$ J3 3 | 1\％ 415 | 154 519 | 1340 | 854 | 3n， 4 dry | 358， 289 |
| 1832 | 120477 | 6.497 | 12134 | 18.11 | 28.1406 | $3 \times 885$ | 314801 |

Rave Cotion imported into Russta

|  | 1857 | 16.38 | 1860 | 3848 | 1841 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | \％o dr | poorta | poods | poodien | puods |
| Great Britan | 14tatis | 27541P | 195041 | 297178 | 17 cog |
| Pramee | 418 | 9337 | 26， 800 | 27 15 | 21，355 |
| Avienica | 44401 | 46934 | b1 58 | 5 5 38 | 25，409 |
| Tutkey | 39 sta | 65831 | 4467 | c） 243 | ［3，171 |
| Perwin | 767 | 1284 | \＄＊2 | 3447 | 3，691 |
| Ebiva | 4125 |  |  |  | 1124 |
| Botanarn | 1174 | 9784 | 1908 | －38\％ | 12，939 |
| Tawchient | 45 | 101 | 2，952 | 4935 | 426 |
| Hrom other coratzied mf disj | 5，3，3 | 18，876 | 0,103 | 10037 | 12．174 |
|  | 262，759 | 346．707 | 354 939 | \＄90759 | 374302 |
| P\％wray of St Petaribure | 179020 | 䞨（0）1 | $30^{5}$ | 䞨， 113 | 744039 |

＂Russia alone coftsumes about one－fifith of the whole of the raw cotton anaually exported by England，the procipal entreport of this trade

Cottor Thread Inaported into Rusea by the Fronthers of Europe and Asla



Cotron Wool Imported minto Rassie fiom the following Conntries－

|  | 1897 | 1535 | 1930 | 1810 | 1841 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| England whte thread | pand $\mathrm{NO}, 13$ | poral 0\％H 169 | poods <br> 611810 | pearein | Fooda $504216$ |
| －1－dy | （e） 7 | 1708 | 1403 | 1437 | 1 2ir |
| Gernanity white thread | 35 | 5 Fil | 70 | 214 | 133 |
| －＿－dyed | 9，511 | 8.269 |  | $10^{17}$ | 1135 |
| Turkey white thread | 4180 | 1591 | 1182 | 3977 | 1488 |
| －dised | 619 | 513 | 217 | 2t0 | 97 |
| Forsas whyto threach | 8,176 | 7834 | 6.921 | 14175 | 16 6ro |
| Khis－Aitto |  |  |  |  | 1．107 |
| Bukluma ditto | St A 17 | 46577 | 15351 | 29684 | 25.5 |
| Taprl kcint ditto | 13 J\＄5 | 6159 |  | 90967 | 4679 |
| Seferal other coantrase dita | 43s | 246 | 634 | 1385 | 181 |
| dyed | \＄＊0 | 31 | 182 | 300 | 32 |
| Total whate | CS， 577 | 60085 | 520） 417 | 519189 | 30 n 9 |
| dyc，d | ${ }^{4} 87$ | F， 6.83 | 445 | 岛2 2 | 2,400 |
| By way of St 1 eterwburg＊ithrd | 52 \＄72 | 408064 | 434， 163 | 881507 | 997，369 |
| buito ditto，dred | 32355 | 4248 | $3+29$ | 是柆0 | 13.8 |

＂B）this we see that English spun cotton formed by itself nearly nine tenths of the whole of the imports

Value of Imports of Woven Cotton anto Russie．

| MPORTED FRO緼 | 1837 | 1838 | 1800 | 1840 | 1841 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Toubles． paper money | toubles paper money | тeublea <br> pispor momey | ronbleat <br> pppar mener | molatce <br> patyt an bly |
| Lrcal britato |  | 9，17s 513 | \％4 4t＋33 | \％ 87 3\％ | 1 Ajo J0\％ |
| Gtrmans | $1 \times 30 \mathrm{kly}$ |  | 1 x 12 cos | 2 c 81 101 | 1,88057 |
| 100\％y | 1700 | 1019 r39 | 1 11．4，iso | 642039 | 10043099 |
| $1 \mathrm{~J}^{\text {ra }}$ | 4 －41385 | 5890179 | $5 \$ 48,880$ | Cr502 582 | 8.4423 |
| Bozly ra | 1 128， 173 | 1248658 | $10^{*}+617$ | 131503. | $2 \mathrm{t01} 238$ |
| 7 －scJ」にが | 6909 | 453414 | 1148545 | 1019，3bi | 10014306 |
| Sufictul ather countripe | 310338 | 294435 | 294062 | 1 18T 740 | 007019 |
| Totat | 12820980 |  | 13797 618 | 1678.056 | 1683 |

＂Siuffs of superior quality，sent to us by England and Germany，diminish as is seen whereas those of ordoary quality，and of small value，which come from Asta，successively nuguent The latte：are destined for the use of the Asatic race of people，which is so numerous in the provinces of the west and south
－However sausfactory this incrense of imports miy seem，we cannot help remarking that our foluga relations as regards our cotton manufactures will for a long time to come yet contane to be of much less importance than the mmense market of the interior，which connot fall to merease more and more on account of the uninterrupted tacrease of popu－ bation and national wealeh in Russaa Foreign exportation is not yet an imperious necessily，for our factones，as is probably the case in other countries，where a sprit of enterpris has led people into a state of exaggerated manufacturing activity Without boung to fear the effect of accidents and events（which so often bring with them stag－ nation and catastrophes un the speculnting trade），our manufacturiog industry may still freely develop all its energy with the vew of attaming that degree of activity which will make at uccessary for Russia to requre from foreng nations any thang else beyond the rim matertals The progiess she has already made authorises us to beheve that Russia will reach ths great desideratum＇

Obsenvamio－It will appear evident from all the foregoing statements， that it non becomes a question of prmary necessity on order to mantan our cotton factories，and especially to employ the great merease of our population， wheh depend on that branch of occupation for subsistence，to ascertain that the
raw material cannot be obtaned in sufficient abundance and cheapness, withou', in a great measure, resortang to the soll of Iudra, and we may also endeavour to durect attention to ats growth in sorne other countries an Asaa and the Indian Archipelago It may, however, first be instructive, with that vew, to trace briefly the progress of the cotton manufactures of the United Kingdom

## COITON MANUFAOTURFS OF THE UNITED KIAGDOM AND EXPORTS OF COTTON FADRICS TO FOREIGN COUNTRIES

When James Hargrenves, an angemous but uneducated mechanc, invented the spinnmg jenny in I 767 , the value of all cotton manufactures spun, woven, and dyed in England, was, by calculation made by Postlethwatte durng the pre ceding year, no more than $600,000 t$, and even in this amount the value of the linen thread, used very extensively, as warp was neluded

From the introduction of the jenny, which was followed by Arkwright's inprovement in 1769 , of $W$ yatt's original invention in 1738 , of the spinaing frame, and snce the construction of the jenny and frame by Crompton, of Bolton, in 1775, the application of steam to working the machunery, and the general use of the mule jenny, and espectally after the setting aside of Arkwrght's patent in 1785 , that we may date the rapud progress of our cotton manufactures

Opricenc Value of Cotton Goods Exported from Great Britain during the following Xears -


Opescialand Declared or real Value of the Cotton Manufactures and Yaru expolted from Grent Bntan from 1801 to 1820 melushe

| YEAJ | UANUFACTU\＆ED GOODS |  | TWISTANDEARN |  | TOTAL BXEDTE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ogimiat Value． | Weolared Yatas | O男cial \＄alue | Deciured l alue | Oficlal Yalat | IThectared Yalue |
| 1 191 |  | 4 | 414 | 5 | T0s0 ${ }^{5}$ | \＆ |
| 14972 | 7194960 | \％ | （4） 05 | 8 | 7 42t 05 |  |
| 2807 | 6189 cis\％ | 0 | 533，401 | \％ | $70 \times 1+11$ | $\frac{3}{3}$ |
| 1904 | $7 \times 345804$ | \％ | goug zos | 2 | 8 ＋6，779 | 4 |
| 1905 | 86159 |  | 914175 | E | 9.50 ＋ 4635 | \％ |
| 1500 | $943,4+4$ |  | 786825 | 8 | 1048314.1 | － |
| 18107 | 9 00 cta | L | 001719 | 8 | 10304105 | 㐌 |
| 1805 | 12503018 | C | 472073 | 8 | 12980493 | \％ |
| 1809 | 183.5014 | 8 | $10 \mathrm{OF}, 339$ | 8 | 194959610 | 缶 |
| 1519 | $15^{59}+510$ | 5 | 1033,473 | 窵 | 18951004 | － |
| 1817 | 1150501 |  | 483898 |  | 52017 149 | $\ldots$ |
| ［91 | 13，723 2s |  | 794 465 |  | 16．517 090 |  |
| $1 \times 13$ | 10．e ords | lesatroyed |  |  |  |  |
| 111 | 16，535 2 h | 17243 384 | 1110850 | 2．791 218 | 17055374 | 24037.13 h |
| 1N15 | 91500 ft | 16946,835 | E0t 553 | 1676 fri | 22.239545 | 20130956 |
| 1 lf | $10: 8 \mathrm{R} 975$ | 12 JAR 944 | 1，350 480 | 2998488 | 17 tot 181 | 155\％3， |
| 1 l 17 | 21133904 | 13 4317 620 | 1175248 | 2014181 | 2125084 | 160：2 mot |
| \＄＊14 | 212304 | 1632 l | 1 1076 | 2 30＊ 315 | $\begin{array}{lllllll}2 L & 50\end{array}$ | 1876 b17 |
| 1819 | 1170859 | 12180189 | 1085,75 | 9510783 | 18 28． 2 l | 14009 912 |
| 1893 | 810501926 | 13694115 | 2024.153 | 8846143 | \＄2 631079 | It 5le 49 |

Statpment of the Quantity and Declared Value of Buitish Cotion Manufactured Goods Exported from the United Kingdom，distuggushing the Description of Goods a each Yrar from 1820 to the present Cine

| $\underset{\sim}{c}$ | WHITE OR PLATN cotions |  | PEANTED OR DYBD cortons |  | HOSIRRY AND SMALL WARES | TWYIST AND YATEN |  | TOTAL． <br> DEOLARED <br> VA14安 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1）ards | beclated Y \＆bue | 1 ands | 5）cintexl －atata | Declared Vnite | Poundy | $\begin{aligned} & \text { Ded lared } \\ & \text { Yalue } \end{aligned}$ |  |
| 1820 |  | $5431027$ | number | （ ${ }^{2}$ | 4． 4 ¢ 530 | mumber 23432325 | 20 685 | $\frac{8}{16516749}$ |
| 141 | 16 123 52 | 5 51.3 27 | 146 51.10 cm | $743+213$ | 61.153 | 21 26，369 | 275423 | 1500038 |
| 18． | 11102111 | 4 $115-3$ | 1540 j1．3 657 | 7 700 d3t | 792535 | 26f． 443 468 | 2645352 | 1721574 |
| 1823 | 1 181 15 | 865 14.4 | 149 ¢31 367 | 785707 | 780014 | 27.788 .956 | $\pm$ 625 $5+16$ | 13326609 |
| 141 | 10001304 | 6437 d17 | 174 4.9749 | F． 310432 | 8093,50 | 75 601 510 | \％135 \＄94 | $19452{ }^{467}$ |
| （3）3 | 15409．s mb | f n¢7 dect | $1784+12$ | ＊505 117 | atarat | 52 E4） 604 | $3 \mathrm{L66} 769$ | 10355 525 |
| 12df | 132（5）53 | 1479912 | 128897111 | 5 38＊ 592 | 735407 | 42180584 | 3901339 | 14093784 |
| 14，${ }^{7}$ | $1 \times 1949180$ | 57170 | 18154 F | 7 led 130 | 114.554 | $43^{\text {2t\％}} 74$ | 531538 | 1743 ！d8 |
| Ib2k | 15） 175 | 5 1802 |  | 6 8040 4 47 | $11+5$＋ 3 | 60303， 71 | 55.5405 | 7244 41 |
| 1621 | 21 50134 | 5 5 33 CLCL | 140 0） 2157 | $46_{6} 62513$ | 15641985 | 01411251 | 4078 KTH | 175656 |
| 1） 31 | （176y | 6 62 if | 19 1，40＋6a | 75 ？ 275 | 11,153 | 4－4，15342 | 413574 | 19 494 be 4 |
| 10．51 | 2 47711 | 40483 | $18 \pm 194083$ | 6 698 033 | 1）18 772 | 63 c 21410 | 3 Эス5019 | 17337 （4） |
| 1032 | 25］ $513 \leq 146$ | $3 \times 24424$ | 201 4？ 697 | $5+1570{ }^{5}$ | 115003 | 7564.7154 | 47175 | 17 308， 7 |
| 1 11 | 24.4 ： $0^{2} 4$ | 3817410 | 251832 242 | 0 tere 430 | 1515317 | 70\％6，161 | 174021 | 18 184t？ |
| 143 | 2kJ M 158 | （ 51才 17， | 271 | 7 113179 | 117810 | 76474158 | 5217035 | $20) 13546$ |
| 1535 | 277 709 5 25 | \＄1：30 | 270 mll kff | 820 frem | 1741184 | 83 y！ 11.5 | 5 06 18 ¢ | \％7，128 6il |
| 1k | 1 146779 |  | 3132 析 54 | 91.17813 | 1319 | 84 19\％ 94 | 5，120 756 | 94632 03＊ |
| 1hat | Cxtilat 250 | －\％\％＋＋ | 24 310 s07 | 6 杜 260 | 91\％1） | 31434 198 | 6．94， 142 | 20 J H1 12S |
| 18．ls | $113 \quad 438$ | tr mat |  | 4， 01003 | 131184 | 111 N | $74.10{ }^{6}$ | $2414 \quad 36$ |
| 1435 |  | $7 \begin{array}{lll}7 & 3 & 75\end{array}$ | $3 \% 411$ | b $\quad 1.046$ | 1314797 | 3015 442 |  | 等 556.678 |
| 2bt1 | 473111373 | $7 \mathrm{WO3} 72$ | $35 \quad 517 \quad 21$ | 8 Am 410 | 1208030 | 115 171421 | 8101 d0s | 94603618 |
| $18+1$ | 421 k54 3） | 74136 | $7 \pm 41792$ | $712{ }^{-35}$ | 1 \％48， 706 | 13214549 | 7 963 96s | 2315159 |
| 144 | 43 911311 | （40） 115 | 03.771 IUS | 6 M ${ }^{2}$ | 1 Drid an | 1． $1665 \times 32$ | 7771561 | 21.71748 |
| 163 | 45 75 | \％024 207 |  | 7111177 | $105 * 34$ | $14^{3} 721174$ | 7193 07t | 23147971 |
| 1 18 | 41 | 3 ctil ${ }^{4}$ | 4143 ：21 400 |  | 101c18 | 13 10 GFJ | 6，085， 3974 | 2，如か348 |
| 1＊13 | $t$ ： $10 \times 1$ | 0601014 | 413 9\％ 24 | $0,30 \leqslant 54$ | 1285484 | 13 14130 | 6 7607 430 | \％ 01 l |
|  | 1313） |  | 34210 |  |  |  | 7 H 2 C 48 |  |
| 117 | 35：46，in 7 |  | 342， 3370104 |  |  | 118，0yl 382 | 6，453 297 | 43339590 |
| $\begin{aligned} & 1.14 \\ & 1543 \end{aligned}$ |  |  |  |  |  | － |  |  |
| in¢ |  |  |  |  |  |  |  |  |



| OOUNTMIES | 1831 |  | 1832 |  | 1885 |  | 1834 |  | $1 \mathrm{H}, 3$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qapkituen | $\begin{gathered} \text { Declated } \\ \text { Fal e } \end{gathered}$ | Quantuies | Declared Value | Quantitiol | fockiked | Quastutica | Dedated Valuc． | Quantitien | Decler rod Yalue |
| Rutavio Sueden | 13， $4 \times 1$ | $\begin{gathered} e \\ 40371 \end{gathered}$ | $\frac{1 \mathrm{ln}}{19,5 \times 7>1}$ | $\stackrel{\mathcal{E}}{1 s_{0}, y, y}$ | $193118 \frac{1}{3}$ | $\text { 1 5ind } 990$ |  | $4,031033$ | $\frac{16 x}{29}$ |  |
| Surchen | － 743810 | 3445 | 7813,747 131155 | 3 3， 3,35 | ${ }_{5}^{677505}$ | 31．11 | 4000 d80 | 430019 | （107\％1 | 60，51 |
| Norway | \％ 3140 | 1， 103 | 131035 | ＋ 61010 | 80,6072 109414 | 2， 2.404 | ${ }_{22}^{624} 4$ | 3，575 | 104351 | 6.204 |
| ${ }_{\text {Dramak }}^{\text {prugal }}$ | ${ }_{\substack{18,316 \\ 13,18}}$ | 6710 1566 | 71080 | 23200 $\mathbf{2} 001$ | 19,914 91597 | 1092 | $23+50$ 24342 |  | ${ }_{11}^{11} 990$ | 6,139 4.347 |
| frugal | whtistis | 108576 | \％ 28.814 | 1 7000065 |  | 1，sms ${ }^{1} 808$ | －${ }^{94} 342$ | 179348 |  | 1） $\begin{array}{r}146,47 \\ \hline\end{array}$ |
| ${ }_{\text {H }}^{\text {Helgrad }}$ | （00091238 | 75136 | 10，34t 64， | 890 423 | $\left\{\begin{array}{c}112480 \\ 1090\end{array}\right.$ | 1.971719 911829 | 12063 Sc | 1，122337 | 13， 5609141 | 119461 |
| Hegrice |  | 1197 | 10，3，6， | 1314 |  | 31829 10212 | 80， 5 5， 4 |  | 42，367 | 7067 |
| 1 ortugal Proper | S81040 | 15 S34 | ${ }_{3} 8230$ | $2 \pm 40$ | 50000 | 10232 | ${ }_{4} 111037$ | 2） 21435 | 82,383 16143 B | 891493 18378 |
| －－Azores | 3240 | WJ | 28600 | 1228 | IS sas | 626 4 | 30 ${ }^{\text {G12 }}$ | 115 ${ }^{1}$ | $1+355$ 90 | 325 |
| bpatk and the Baleane faknds | 36，170 | 8 taj | 10830 | 771 | 2，500 | dit | 2616 | 340 | 1，840 | 248 |
| －Camarles | 2360 | 131 | 1300 | 56 |  | \＄1 | 850 | 00 | 100 | 20 |
| Cibraitar | 38150 | 3，173 | 95979 | 7090 | 10990 | 910 | 12，50y | 101 | 85175 | 2485 |
| Itaty and the Itoluan Ixhadn | \＄444519 | 439，$\times 14$ | 7 sts 48 | 381988 | 4954845 | 874838 | 93g9 9ay | 514808 | 7084.363 | 487 by |
| Totrasay Istionda | 312740 6469 | 14168 3643 | ${ }_{6}^{205} 480$ | 10382 | $136,330)$ 35420 | 6．4．40 | \＄31，540 | 98 9x7 |  | 1 tan |
| Morea and Greek Isimad． | 11000 | 20to | $\begin{array}{r}60 \\ 1 \\ \hline 100\end{array}$ | 8 （940 | 33440 | 2905 | 120.62 |  | 151080 | 888164 |
| Turkeg |  | 等085 | 1，301915 | $00_{0} 0$ | $1767{ }^{185}$ | 00058 |  | 14.735 | 1，5\％ 5400 | 89，408 |
| Syria and $\mathrm{Pa}_{\text {alestane }}$ |  |  |  |  |  |  |  |  |  |  |
| Egypt．${ }^{\text {Triould }}$ Truts Alcters and Maroca | 28，500 | 60，0 | 180280 | 10，910 | 177300 | 21，029 | 591784 | 290 900 | 4015：0 | 20，603 |
| Tripols Turins Algiere nad Mcincea Westera Cusat or Mfrica | 280 | 34 | 1070 | 160 |  | 107 |  |  |  |  |
| Cape of Goad \＄1 po | 103 | 110 | 1355 | 126 | 1194 | 80 | 2，370 | 174 | ${ }_{12} 612$ | ${ }_{780}^{816}$ |
| St Huleda and Aecometon leland |  |  | ${ }^{1} \mathrm{I} 99$ | 12 | 1 H | 8 | 2，319 | 174 2 | 12617 | 780 |
|  |  |  | 2,500 | 126 |  |  | 3 ［1］ | 4 | 35 | 11 |
| Chipa | 36024，535 |  | 4，810643 | 303，370 | 1783，794 | 324833 | \｛ 4 407 6．3．3 | 215 58 | 5209762 | 4322831 77083808 |
| Sinma |  |  |  |  |  | 120 | $\left\{\begin{array}{l}95220 \\ 82080\end{array}\right.$ | 48830 | 2，433，24／3 | 170388 |
| Pumatre Ja a ord ather luiande is tho lud an Seas | 312 N00 | 22，033 | 102300 | 0020 | 247430 | 15，44t |  | ${ }_{17}{ }^{17} 43$ | 213，985 | 1316as |
| Phalippine Latands | $1 * 8000$ | 1996 |  |  | 30000 | 879 | 90 300 | 1115 | 2ras |  |
|  | 7438 | 880 | 0411 | 509 | 11950 | 893 | 1183 | 642 | 4 綋 | 875 |
| －－Werth Antertedt Calemind | 8518347 | 10376 | 860508 | 2， 049 | 215806 | 9015 | 194 519 | － 436 | 20t 160 | 11314 |
| Fayt wert ladico | $14415^{\circ}$ | 83.3 | 4.73 | 485 | 88 | ${ }^{596}$ | 5 cm 4 | 453 | 24754 | 2900 |
| Csha and other Foreigc What Indiss． | 2100 | 14 | ${ }_{3}^{8} \times$ | 8 | 1809 | 314 | 4 4ida | ${ }^{60}$ |  |  |
| Ubiters Stotes of Americe | 31739 | 17 a ［3］ | C0．3b4 | 51210 | 112375 | （5）${ }^{84}$ | 20F 198 | $0{ }_{0}{ }^{1}$ | 12680 | 8，${ }^{96}$ |
| Mexico | 781215 | 37978 | 463823 | 29 3 ${ }^{\text {a }}$ | 964， 50 |  | 463 | 27 344 | 29140 |  |
| Canteriala |  |  |  |  | 11000 | 7245 | 23155 | 1775 | 14，程0 | 1610 |
| Colicmita | 283 | $1 \mathrm{Cr}, \mathrm{HO}$ | 100 | 8 |  |  | 35 cos | 3443 | 1＋100 |  |
| Stekst of the Rro do da Plala | 2.410 | 334 ${ }_{3}$ | 11460 | 1075 | 11434 | $10^{23}$ | St 730 | 318 | 10.198 | $9{ }^{5} 1$ |
| Clili of the Roo do la Platu | 48000 | 130 |  |  |  | 26 430 | O64t | 446 | 84500 | 2,44 |
| PCru |  | 120 | 1709 | 880 | 3,2000 | 480 901 | L， 6 A ${ }^{\text {a }}$ | $\mathrm{BCO}_{0}$ | 1969 <br> 5409 | 4， 3 |
|  | 4405 | 755 | － 8 so | 1 HI | Q 471 | 9067 | 6192 | $5{ }^{5}$ | 6743 | 36 |
| Turac | 03.821469 | 3．2．301， | 7667150 | 1722750 | 20026.101 | 4704021 | 73174318 | 111013 | 6321453 | O4，4， |


| OOUNTRIES | 130 |  | 1837 |  | 1838 |  | 1839 |  | 1040 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantiliea | $\begin{aligned} & \text { Deciared } \\ & \text { Yalue } \end{aligned}$ | Quantile |  | Quantite | $\begin{aligned} & \text { Declared } \\ & \text { Falue } \end{aligned}$ | Quautica | $\begin{gathered} \text { Declayed } \\ \text { Yaise } \end{gathered}$ | Quxatilen | Declares |
|  |  | $123+16$ | $2418{ }^{1685}$ | $1012 \times 3$ | ${ }^{197} 7$ |  |  | ${ }_{1215921}^{4}$ | $\operatorname{lig}_{10 \mathrm{bx+1/5}}$ | ${ }_{10 \times 4 \text { ¢ }}^{5}$ |
| Rot in |  | 183+4t |  | 1012 ${ }_{\text {cos }}$ |  | 154530 | 41033 | ${ }_{73}$ | dis 3 my | ${ }_{\text {cs }}$ |
| No way | 134358 | ${ }_{5} 128$ | 19, ${ }_{6}^{60}$ | 10, 8 | 84ilis | ${ }^{10193}$ | $31>513$ <br> 4330 |  |  | $1{ }^{1}$ |
| Drayk |  | ${ }^{3} 180$ | 5-470 |  | ${ }_{1}^{115}$ | ${ }_{1}^{803}$ | ${ }^{4} 8380$ | Ing | 109 $4 \times 18$ | 4, 424 |
| - | $45 \times 29$ | 1 LCA Oig | $34, \mathrm{C}, ~ 819$ | 2177813 | 35023176 | 2904330 | 38705121 | 2,3nfi $18 \times 1$ | $41765 \pm 63$ | 2atzo |
| H Hond | $13,{ }^{3}$ 2 276 | 111209 | 10~03072 | 1,380 |  | 1861 1180 | 21195215 45016 | 1794898 |  | 11211 |
| Reloum | , 31874 |  | ${ }_{8}^{67} 987$ |  |  |  |  | ${ }^{7} 7 \times 4$ |  | \$3148 |
|  |  | ${ }_{28}^{28189}$ | 32\% 26 | ${ }_{23} 3618$ | 309613 | 46 778 | 4384.15 | $3 \uparrow$ CsA | $466^{4} 2$ | \$ 4119 |
| 人 त- Afure | 2, 2,240 | 1193 | 1, 40 | 1 215 | 176 | ${ }^{15}$ | 20,340 | 8,7 | 12178 | ${ }_{4}^{4}$ |
| - Mrdura | 744 | 42 | 1 1 3 \% | 78, | ${ }_{1203}^{723}$ | 117 |  |  |  |  |
| Spun end the Bucterio Islaude | ${ }_{1072}^{60}$ | ${ }_{\text {a }}^{20}$ | $1{ }_{1}$ | ${ }_{63}{ }^{3}$ | ${ }_{179}{ }^{2010}$ | 19 | 5290 | 220 | ${ }_{1} \times 24$ | 49 |
| Inmpabar | 1 mm | 6.) 2 | 2988.3 | 14720 | $1{ }^{109} 12$ | 7773 | ${ }^{5} 5190$ | ${ }^{3} 163$ | Stent | ${ }^{7} 3.33$ |
|  |  | 644 374 | ${ }^{5}-75$ (3n | dTTT ${ }^{\text {dis }}$ |  | ${ }_{695}^{693}$ | ${ }^{9035748}$ | sel ${ }^{1} 83$ | ${ }^{11} 1$ | 510.39 |
| Mralta | 16, 19 | ${ }_{6} 1278$ | 370 800 |  |  | \%1048 | 2199291 12816 | ${ }^{R} 478$ |  |  |
| Iotial Islazas | ${ }^{11 \times 097}$ | 6,048 | \%at | ${ }_{3}^{2+303}$ | 329145 1720 | 15.16 | 148716 | ${ }^{6}$ |  |  |
| Trikes | 188955 | 119 | a 027858 | 180825 | 4 css 50.0 | 241 mio | 2100616 | 10\% 112 | 22 033 | 12.774 |
| Syra and Palustive | 32.000 | 2.150 |  |  | 194.939 | 44215 | 7 7 7818 | 4217 | 742488 | 17.at |
| Crypt Touns, Algiern, and Morocto | 300140 | 20) 346 | C660, 06 | 41372 | 19083 | 14004 | 108916 32392 | S ${ }^{\text {bito }}$ | \% 1000 |  |
| Tripoll Tunis, Argiers, and Moroceo Whatern Coast of Africa |  | $\mathrm{BbS}_{3}$ | 2,552 | 593 | 2 n 93 |  |  | $\underset{2}{205}$ | 8113 | \%,5 |
| Capco of Goext Hopt | 23, 370 | 1207 | 93314 | 80\% | 14 ¢50 | 884 | 113657 | 310 | 19956 | 1070 |
| Si Helens and Aacension feland |  |  | 10400 | $4{ }^{103}$ |  |  |  |  |  |  |
| East 19dia Company's Territuricas and Cegloa | 6123810 | ${ }^{561} 888$ |  |  | 10710,138 3841865 |  | $10 ¢ 18015$ 1,3150 con | 6001,919 |  |  |
|  | $3154 \mathrm{c}^{2} 50$ | 212, | 197396 |  | 3.84186 | 217047 | 1,3160 , 0n | 15 ¢5 |  | ${ }^{4} 788$ |
| Stamata dars and oticer letande in the Ind aut Seas | 148,2,3 | 12,380 | 127620 | 7808 | 521880 | 27259 | 133,150 | 9806 | $9 \pm 78$ | 4980 |
|  |  |  |  |  |  | - 4 |  | 593 |  |  |
|  |  | 4444 2804 | $21003 \%$ | 14387 | 369 ${ }^{10}$ | 14824 | ${ }_{67 \times 17}$ | 91 bair | 4 mm tis | 16712 |
|  | 34,384 | $38,3,2$ | 05545 | 4 43 | Sd S33 | 3,601 | 1450 | 10,303 | $1 / 6,3$ 3 180 | 10,084 4808 |
|  | 202 | 21 |  | 3 mb | ${ }_{5}^{5,6+11}$ | 2010 | 1345 | $15_{6}$ | $249 \%$ | 418 |
| Inited Btates of Amerrea | $212 \pm 03$ | 14, 713 | 814 12 | 1333 | $11.3{ }^{3}$ | 5249 | 117111 | 7750 | 984, 14 | 133188 |
| Mexico | 477,630 | 28.603 | 2 [54,697 | 144489 | 311800 | 1507 | 10360 | 697 | 4810 | 2150 |
| Cantemala Cojambia |  |  | 188,289 | 12488 | 1389 | 00 | 500 | נท | , 70 |  |
| Brazil | 7376 | 1 | - 00 | ${ }^{43}$ | ${ }^{21} 185$ | 110 | 119.5 | ${ }^{3} 30$ | 14 mal | $2{ }^{218}$ |
| Staderaf the tio de ya Pruta | $4(10)$ |  | 5,34 | 304 | 31) ${ }_{8} 818$ | ${ }^{140}$ | - 77\% | 1110 |  | 1144 |
| Prent |  |  |  |  | $33^{3} 900$ | 1600 |  |  |  |  |
| Isien of Gucrusey Jemos, Aldervey and Man (forelga goode) | 3, 110 | 94 | 7255 | 376 | $2, ~+M$ | 14 | 5,235 | ${ }^{2} 2$ | 4 728 | 25 |
| Totar | * 191040 | 0120 +15 | 103435128 | 6,055042 | 111 190002 | 7436309 | 130045342 | 6858.183 | 1154.423 | 7101359 |


| covNTRJES | 1931 | 1939 | 1833 | $1 \times 34$ | 1835 | 1398 | 1837 | 1 1敬 5 | 1899 | 1830 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | £ | $\pm$ | 穿78080 | ${ }^{3}$ | \＆ | $\pm$ | 尤 |  |  |
| Raeem Scerlen | 7 681 | 128177 | 107 1685 1600 | 70759 498 | 114680 | ${ }_{6} 8933$ | 50889 | 64 754 | 74323 | 68 ERG |
| Sverden | 8381 | 1737 | 1670 | $\underline{194}$ | 9470 | 4680 | $4 \pi 5$ | 2469 | 2830 | 2954 |
| Porryay | 15538 | 3041 | 25063 | 16827 | 19331 | 2 cos | 1s 727 | 13， 510 | 12850 | 12，88t |
| Dentraty | 7205 | 6，002 | 6，83： | 0 \％e9 | 3 \％ 08 | 4245 | 9，497 | 1， 345 | 9601 | 2.304 |
| Gerbany | 1175964 | $1499,37{ }^{\prime}$ | 1，440 $540^{\circ}$ | 1．500 78 | 1400831 | $11720 n^{3}$ |  | 1068 | ${ }_{1}^{1098}$ | ${ }_{1} 100140$ |
| Holland |  | 14090 |  | 1，400 508 | 1409031 | ${ }^{1} 1720063$ | 1170412 | $1060{ }^{0} 9$ | 1041.908 | 1160140 |
| Btignam | ）3073 250 | 8047048 |  | 328 exs | 200249 | 602903 | 717053 | Ustu） | 67580 c | 5002 ctia |
| Franco | 47570 | B4，993 | 82,867 | 120839 | 3644 407 | 219387 | 15）统0 | 12026 | 153177 | 20214 |
| Portagal Pmper | 3＜ 3 3，0 | 297402 | 85924 | 93 tc 75 | 817000 | 1515，358 | Cursme | $704{ }^{3}$ | 697575 | 7ng 190 |
| －Arores | 17500 | 2） 314 | 25587 | 31875 | 22，810 | 25879 | 21，36 ${ }^{\circ}$ | 92407 | 20.96 | 24.590 |
| －－Maderat | 15254 | \＄，37 | 13，305 | 11786 | 11109 | 34859 | 3900 | 10110 | 14975 | 10：822 |
| Spsin and the Buivame falande | 159285 | 74.53 | 10， 300 | 18.977 | 12300 | 29.78 | $4)^{42}$ | 71 | 14，12＊ | 1083 |
|  | 161.161 204 | 9,835 $\$ 94785$ | 16.455 291930 | 19346 | 14338 | 29 237 | 236121 | 213 | 27 403 | 2343 |
| Italy and the Italina lalaudr | 1079 9\％20 | 1197713 | 1128 R29 | J 814 | 948， 247 | 1453149 | 769415 | Gran urs | 791630 | 691852 |
| Halta | 60907 | 136054 | 38889 | 128427 | 45185 | 04tas | － 41310 | 0.5074 | 45 SNO | $1{ }^{641} 689$ |
| forian Imands | 5820 | 16，943 | 5872 | 37231 | 28， 392 | 41294 | 4059 | 34，529 | 26419 | 30862 |
| Morea and Greak 1 lands | 0，540 | 4031 | 12，056 | 18，353 | 8726 | 3143 | 2958 | 20.95 | 3，303 | \＃33 |
| Tarkes ${ }_{\text {Sucha }}$ | 5889808 | 633.400 | 7 frag | 881781 | 973，377 | 1，415838 | 722063 | 118878 | 878 100 | 74316 |
| Syria sad Praleatave |  |  |  |  |  | \＄5404 | 339 | 137527 | 196184 | 175873 |
|  | 5011.4 | 88016 | 54783 | 76,170 | 169068 | 134169 | 1500.81 | 1158000 | 55，的 | ${ }^{123} 587$ |
| Trysti Tomie Aigieta had Katoces | 128 | 9ill | 290 | 10735 | 24.217 | 1045 | 46 kl | 59.150 | 47505 | 46967 |
| Wentern Coa t of hfrien， Gape of Goud Sopes | 74,004 87,415 | 97906 | 110238 125458 | 1300101 1003 | 185244 | 210418 | 135 714 | 187387 | 488029 | 901404 |
| CPe Yeed lelapde | 87，403 | 32.770 | 245 | 10083 | 184， 17 | 153000 |  |  | 130001 | 133176 1878 |
| St Helcan | 2427 | 15152 | 2840 | 3443 | 4，868 | 03\％ | 870 | 1134 | 2，262 | 1494 |
| Ancepaicm Infebd |  |  |  |  |  |  |  | 60 | 2,26 | 149 |
| Slamaritag | 6,385 | 72，508 | 26105 | 77124 | 7302 | 87727 | $159 \%$ | 109986 | 69374 | 16580.4 |
| Arabla |  |  |  | 4030 |  |  |  |  |  |  |
| Fitt India Compangatexritories and Caylon |  |  |  | 5 25031 | 1368051 | 2020343 | $153 \mathrm{H}, \mathrm{in} 3$ | 1，905 149 | 2，314 ${ }^{416}$ | 8025 ¢56 |
| Caina | $\}$ 10，040 | 1，330 970 | 173，${ }^{\text {an }}$ | \｛ 152，＊048 | 291359 | 370101 | 278，387 | 323，84 | 386， 5 | 138389 |
|  | tomato | 65，593 | \＃is 07 |  | 077639 |  | 246513 |  |  |  |
| Pbitsppine 1 lends | 39，452 | 726004 | 88392 | A5199 | 63845 | 4414 | $24 \mathrm{HB5}$ | 42084 | ＋317950 | 204， 4 |
| Brinith Servernebts 2 A Austratis | 6994 | 66741 | 0105 | 133845 | 8974 | 00145 | －7，459 | 139657 | 9\％－834 | 18，146 |
| New 7 island |  |  |  |  |  |  |  |  |  | 3，181 |
| Sounth han falonds | $\}$ 135 | 145 |  |  | \＄40 |  |  | 35 | 1022 | 1 19a |
| Briuh Nomb Ambuican Cobotite | 4 y 1273 |  | Arsaty | 283948 |  | ata 4 mb | 42 4ri | 90\％ 672 | 712131 | ${ }^{509} 96$ ！ |
| Hayu Feat ludie | 6d5，7 11 |  | 704007 | 76030 | 10354651 | 1057494 |  | luy 671 | 1341788 | 15 Stvin |
|  |  | 33980018 | 210 250 | 418383 | 194 acd | 100478 | H5 4.38 |  | 28.708 | IfPES： |
| Uajted stauct of Araertea | $3-38741$ 2851 | 381479 1429889 | $\$ 32843$ 1726702 | ［624，${ }^{511}$ | 7 891925 |  | 457407 |  | 159．64 | 4．1941 |
| Mezico | 454 the | 1200，6010 | 12674 | $1{ }^{1} 917095$ | ${ }^{2} 1212948$ | 2476006 | 212394 | 1 20.104 | 1450.342 404922 | 11110.178 $\mathbf{V}, 416$ |
| ${ }^{1}$ anteroma |  |  | $18 \pm 0$ | 27006 | 10908 |  |  |  | 40.122 | J． 916 |
| Columbas | J96，6］p | 180427 | 90 Oms | 1778 | 78.355 | 1225 | 14 881 | 94090 |  | pal 053 |
| 8 amil | 702001 | 1713089 | 1087 Ras | 148750.1 | 15100750 | 174583 | 1018437 | 1 crac | 1932 Am | 19.900 |
| Stuten of the Riodo is Pluta | $186 \mathrm{CH7}$ | 42903 | 302008 | 43314 | 3373488 | 43650 | 404509 | 466.923 | $44^{3} 138$ | 4， 421 |
| Chits | 464174 | 4110 3 9\％ | 311651 | 016968 | 4 datan |  | 10 O 96 | 7，2， 38 | Enct 097 | 37 |
| Ponta | 212313 80 | 130668 | 217 H 10 | 130598 | dga r80 | 438.38 | 2411 | 2215 | 434380 |  |
|  | so me | 0． 208 | 87012 | $8 \times 310$ | 7771 | atil | G1039 | C3ni | $60^{6} \mathrm{~S}^{\prime}$ | 6318 |
| Toft | 13 2atins． | 17673633 | $13781 \times 377$ | $1030 \mathrm{kJ1}$ | 10 421,15 | 123114 | 13 rati 141 | 67159： | 17atata | 17547718 |



| ©OUNTRIES TO WAICH EXPORTED | 1843 |  |  |  |  |  | 184 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | White or PisinLottons | Prioted or Dyed Cottons | Hamery and Smxdl Waren | Twiut and | dYatu | Total | White or Gada Cotton | Printed or Dyed Cotton： | Hosiery and small warts | Twut and | Yard | otal |
|  | Yoruis | Yards | Declased ralus | Pounds | Ueclared Valup | Value | Tardit | Tard： | Declared Falut． | Pounds | Declarad Valite． | Vatued |
| Rugas | 2u14．3er | nachber 164685 | 5697 | tumber $22,163,040$ | $\left\|\begin{array}{ll} x \\ 1 & 441 \\ 2035 \end{array}\right\|$ | $\stackrel{\&}{8} 786$ | $\begin{aligned} & \text { nuphber } \\ & 084 \times 197 \end{aligned}$ | number 250 206 | $\frac{f}{1057}$ | namber 293 74344 | $1341750$ | $1,3 \text { E.3 } 795$ |
| Salely <br> Norwa | 5istisi | 98， 276 | 6020 | 1460．306 |  | 7\％ 78 | （1） 43378 | 74770 679200 | 001 | ${ }^{1} 321878$ \％ | － 48453 | 53081 |
| Norway |  | 739727 | 1020 | 1102188 | 82.1637 12858 | 35， 44.4 | 970478 | 6702000 | 4.378 | $1005 \% 205$ | 30785 | C－ $\mathrm{COT}^{\circ}$ |
| Promart | 483,914 | S86， 694 | 494 | 3tra， 518 | 12，835 | 30 seq | 4418 | 805108 | 33\％ | 5621238 | 219357 | 40 8fı |
| Prusar | 1 cosis | 239 | 1061 | 18084 | 6，186 | 7233 | 3214 | ${ }^{1600}$ | $13 \Delta 7$ | H4848． | 10683 ： | 12016 |
| Geruany | 17737 cay | 20.83376 | 202，679 | 49 1837598 | 2，311439 |  | 18.561874 | 91086369 | 203.467 | $38.0 n_{t} 868$ | 2，078，937 | 3，104 398 |
| Pels | 10 137 Sind | 11064,201 $1712,4.7$ |  | 20,549678 <br> -34710 | 1，348， 816 | 1 121634 |  | 12211983 12452767 | 70.457 75791 |  | 10001 ，ais | 1 ¢5s 161 |
| Prance | 114243 | 2，127 444 | 106 153 | － 10388.4 | 37202 | Tef 7 cos | 158.477 | 2,109159 | 117488 |  | $\mathrm{g} 2_{2} 431$ | 30760 215060 |
| Portugai Propar | 24206014 | 10，50，43a | 13476 | －02， 351 | 23，958 | C53， 8080 | 97 2x 5 ， 86 | 21 2fu， 978 | 14782 | 908， 100 | 34 GJ3， | 7 msid 181 |
| 二 Azores |  | 3 A 4175 | $3 \mathrm{3a}$ | 23145 | 1030 | 54885 | 1372011 | $742,50 \mathrm{ck}$ | 973 | 23748 | 018 | \％ 764 |
| Spain padithe faleacie latagdo | 30.410 | 324040 | 479 | 612 | 43 | 1,193 | 40 CH 10 | 440648 | 667 | ${ }^{3 \mathrm{Ba}}$ | 10 | 12741 |
| Sipata miditee Ealgacic iglaodo | 时 3 388 | （102， 153 | ${ }_{1}^{654}$ |  |  | ${ }^{6} 11818$ | 401254 | 815 218 | ${ }^{833} 116$ | 17） 802 | \＄97 | 1918 |
| Cubraltar | 647 697 |  | ＋ $\begin{array}{r}123 \\ 2472\end{array}$ | 5 BDO 110,42 | $0{ }^{2346}$ | \＄20， 070 |  | \％ 213124 | 1189 7019 | 3 334 | 117 | 88314 |
| Italy sad Uhe Italkan kslaths | 3774803 | 346851327 | 31 4 ＋4 | 13712392 | 475 欵4 | 161045 | 2976602 |  | 94， 13.5 | 1117155 | 378307 | 723 72i |
| Malta | 3．4．15 031 | 1845236 | 3231 | 52140.50 | 22， 725 | 102， 414 | 2084887 | 1，381240 | 1729 | f0，160 | 15，475 | $8{ }_{84} 1,50$ |
| Jonlane lelands | 2 67entil | 1770463 | 8.2 | 45630 | 2140 | 86，304 | 2,877005 | 1733116 | 409） | 600 469 | 20，870 |  |
| Wlorea and Creok Islande | 131800 | 92，164 | 16 |  |  | 1145 | \％ 185 | 318.483 | 18 |  |  |  |
|  | 351837093 | 26，36，766 | 1783 | $7 \mathrm{ABH7} 058$ | 359143 | 1，2， $2,6,0,2$ | 42，724 900 | 696614.4 | 4723 | 942880 | 400， 410 | 1982.90 |
| Sgria mad Pblention |  |  | 32 | 368184 | 107818 |  | 16， 924343 | 10110801 2.505108 | ${ }_{8}^{850}$ | 8.421 .750 | 19780 |  |
| Ttipoli Truis Aigime and Morueco |  |  | 228 340 |  | ${ }^{17} 3105$ | ${ }^{14} 80$ | 12，416067 | $\begin{array}{r}3,403103 \\ 27 \mathrm{km0} \\ \hline\end{array}$ | 1\％7＊3 | $3 \times 0,466$ | 10.307 | 2815 40 |
|  | （ 81.142 | 3． 81.143 | 1482 | 173925 | －1090） | 814760 | 18000.0 1903,403 | 8089119 |  |  | 30 | ${ }_{19} 0.219$ |
|  | 5 | 4.2000 | 1970 | 2，340 | 361 | 159， 107 | 9031，306 | 3,2021 ，28 | $\begin{array}{r} 8+1 \\ 7865 \end{array}$ | 18， 179 | 391 |  |
|  | $\begin{aligned} & 21,30 \\ & 72707 \end{aligned}$ | $\begin{aligned} & 23 \times 18 \\ & 8,18 \end{aligned}$ |  |  |  | ${ }^{3} 789$ | 27 d89 | 17770 |  |  |  | 2376 |
| Abivit－ | 114 | $\text { I } 862$ | 222 |  |  | 3272 170 | 85341 |  | 148 30 | 50 | 3 | $1 \begin{aligned} & 1456 \\ & 104\end{aligned}$ |
| Blaur iat | 2，4 7837 |  |  |  |  |  | 12100 |  |  |  |  | 5006 |
| Arst a | 2.478350 | $2{ }_{40}^{2}$ | 2，4020 |  |  | 817638 | 3761580 10,300 | 7， 1091407 | S 113 |  |  | 100595 |
| Eadt India kowpany a T ititurn y wad Caylon | 190，601，390 | 9527389 | de 016 |  |  |  | 204 1006300 |  |  |  |  | 139 403 |
| 隹 |  | ${ }_{3}^{3,3541087}$ | a 45 | ${ }_{24} 1880$ | 701836 10,365 | － 139195 | 204 1374 13823 |  | 85,93 4,107 | 22084 10848 1080 |  |  |
| Hongk ag | 8，37，tos | 2， 314015151 | 1 No |  | 7 | 13 EF 5 | 1212030 | 101515 | ${ }_{80}$ |  | ${ }_{1}^{814}$ |  |
|  |  |  |  |  |  |  | 76872015. 1 | 5103517 1416300 |  | 3080080 | 1694， $8 \times 4$ | 197190 |
|  | 34． | 2614514 | 31288 | ${ }^{5689} 3789$ | $25_{10}^{01024}$ | 61 1718808 | 1． 245 | 14180800 | ${ }^{13}$ | d14 684 | I］ 4 A | 301 nc \％ |
| A w Etaliad <br> bouth Sual liza bo | 12338197 | 43645 |  | 80， 700 | 144 | 171800 | 1，545 30： | 93 yc 957 |  |  |  |  |
| Brstish Norit Amenceat Colota ca | 35， $\mathrm{H}_{4}$ | $55 \times 24$ |  |  | 07 | 33，38） | 6021 | 74 |  |  |  |  |
| －Weat ladtes | 7188184 |  | 3.497 | 52 ata |  | \＄384940 | 119888048 |  |  |  |  |  |
| Hayta | 23 arre 728 | 27310 | 4.3 ste | 10． | 10041 | BH1 110 |  |  |  |  |  |  |
|  |  |  | 2） 5 |  |  | T | ${ }^{-}$ |  |  |  |  |  |
| Unilud Stater of Ampitica | 5738 | 10 383.311 $18,13<3$ | \％ 4 |  |  |  |  |  |  |  |  |  |
| States of Contral and Soutiorn Ammen－ | 230．06 | 13，334859 | 15,467 | 82053 | 4845 |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { Telas } \\ & \text { Mtexico } \end{aligned}$ | A＋679 | c9． mp | 200 |  |  |  |  |  |  |  |  |  |
| Grakemath |  | 147s 430 | 13514 | 75 us6 | 8111 |  |  |  |  |  |  |  |
| Calsmbta | 419368 | 142 300 | 123 |  |  |  |  |  |  |  |  |  |
| Herem | $3+7016$ |  |  | 005 |  |  |  |  |  |  |  |  |
| Cili $\mathbf{P}$（ru | ！¢ ${ }_{\text {¢ }}$ | $1 \times \mathrm{CH} 2.514$ | 13450 | lim |  |  |  |  |  |  |  |  |
| Porelga North sext Cuasr of An erics | bal 502 | $000+129$ | $1: 287$ | 160 |  |  |  |  |  |  |  |  |
| halea of Gastorey trey Aldoraly and Man | 60n 1 \％en | 518 tht | 8093 | 7074 |  |  |  |  |  |  |  |  |
|  |  | $\begin{array}{r} 3 \text { mads ugo } \\ 7114, i 7 j \end{array}$ | 1015 | （192 176 |  |  |  |  |  |  |  |  |

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{} \& \multicolumn{2}{|l|}{\multirow[t]{2}{*}{\[
\frac{\text { White }}{\text { Yarl Pluin C thou }} \underset{\text { Drect }}{\text { blace }}
\]}} \& \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Prated or Dre 1 Collom Vorle vistred}} \&  \& \multicolumn{2}{|l|}{Twsat aniltam} \& \[
\begin{gathered}
\text { Tol mat lired } \\
\text { lala }
\end{gathered}
\] \& \multicolumn{2}{|l|}{Total ，alue} \\
\hline \& \& \& \& \& tivis \& lounde \& Deacte fot \& 1 H \& 1846 \& 1947 \\
\hline Rumsia \& Dumber \({ }_{\text {a }}\) \& \[
\underset{L}{\mathbb{E}}
\] \& nunt1\％ 146 \&  \&  \& nn iber
\[
18.13 r 24
\] \& \[
102 \pi
\] \& 10199 \& \(\pm\) \& 4 \\
\hline Sux d \& 60\％1 \& 169 \& 111 \& 3121 \& \(13 \%\) \& 1 1，100 \& 4， 15 \&  \& \& \\
\hline  \&  \& \({ }^{1} \mathrm{~s}\) r \({ }^{1}\) \&  \& \begin{tabular}{l} 
A 519 \\
5 \\
\hline 17
\end{tabular} \& 181

85 \&  \& 1143 \& 57138
71110 \& \& <br>

\hline it mis \&  \& 20 \& | 3 | 7 |
| :--- | :--- | :--- |
| 3 | 11 | \& 5 \& 14 \& 8） kf 2 \& 111 l \& 11418 \& \& <br>

\hline H7a \& $2 \mathrm{t}+\mathrm{H}$ \& 11 \& （A） 141 \& $\%{ }^{3}$ \& 1.10 \& 3174 \& 14d rest \& 1 1itusio \& \& <br>
\hline 119：ratur rovima \&  \& 327832 \& 27 ty 183 \& 12 \& 1，54．4 \& 4 t 10， 1 hs \& 2 ； 51538 \& \＄． 100 s ¢ 4 \& \& <br>
\hline H1t d \& 13.312 \& 21.6 \&  \& 254 atal \& ，3，24 \& 21 siect \& － 204 1－4 \& 1，May 2010 \& \& <br>
\hline neygime \& 2： $5+73$ \& 4151 \& 126.370 \& 1414 \& $9 \mathrm{GC11}$ \&  \& 134146 \& 231571 \& \& <br>
\hline  \& 930\％， \& 18130
212915 \&  \& 31414
$\times 3412$ \& 95 179 \& ［1203， \& 781818
28510 \& 177 cas
$4.14 \times 82$ \& \& <br>
\hline －Antorn \& 25152053 \& 1515 \& 15， 173 \& 1520 \& 12，\％ \& 40260 \& 1 1074 \& 34， 49 \& \& <br>
\hline －－ 11 dera \& 438149 ？ \& 6） \& 3 COLax \& 6， $\mathrm{c}_{21}$ \& 347 \& 880 \& 10 \& 13.362 \& \& <br>
\hline Epriz and th Leal kt c filauds \& 412517 \& 73 PR \& 157743 \& 356.1 \& 30 \& 744 \& 116 \& 11787 \& \& <br>
\hline $\cdots$ lyraltar Comarich \& 09 ys \& 1478， \& Srs ict \& 1054 \& 458 \& 2085 \& ${ }^{68}$ \& $2{ }^{2} 367$ \& \& <br>
\hline  \&  \& 42109 \& $5 \times 5129$
265618 \& 217412
453 \& 25371
46392 \& 12，axicici \& 8315
834,379 \&  \& \& <br>
\hline Halts \& $2,3 \mathrm{k} 231$ \& 3禹 21 \& ${ }^{297} 109$ \& 16452 \& （ 900 \& 3，40， 6 \&  \& 10， 40 \& \& <br>
\hline fonisn t laod \& 3，0， $0^{1}$ \& 80120 \& 256941 \& $44^{4} 389$ \& 2338 \& 820 cas \& 97361 \& 15953 \& \& <br>
\hline  \& 74 P \& 1 k 1 \& 1005 \& 40 \& 127 \& \& \& 1128 \& \& <br>
\hline Tarbes ${ }^{\text {S }}$ ， \& 4004763 \& $\mathrm{Cr}^{5108}$ \& 47304 337 \& 18480 \& 8163 \& 8 430， 3 2in \& ${ }^{\text {ral }} 98$ \&  \& \& <br>
\hline Syrin and I alestrao \& 2914312 \& 81313 \& \＆the ks． \& 1013 \& 1495 \& 28060131 \& 135439 \& Eny ${ }^{\text {a }}$ \& \& <br>
\hline  \&  \&  \& 173946 \& 33405 6 \& 7517 \& 2.278 \& 8 821 \& 137
5.852 \& \& <br>
\hline Hebtera ${ }^{\text {cos en if }}$ Afroca \& 11 Hm \& 12 Ely \& $104,5,75$ \& 20 ， 11 \& 1 180 \& 2054 \& 415 \& 220） 930 \& \& <br>
\hline ¢ pe of cool Hop \& 423097 \& （0， 533 \& 518454 \& 10.4 \& 10.2 \& 17，380 \& 809 \& 174， 526 \& \& <br>
\hline kastera Coand of 1frica \& ${ }^{11} 190$ \& 23 \& \& \& \& \& \& 823 \& \& <br>

\hline  \& 4： 474 \& 1517 \& | 15 |
| :--- |
| 40 r． |
| 10 | \& ${ }_{769}^{369}$ \& 576 \& 63 \& 7 \& \％ 823 \& \& <br>

\hline Nauribus \& 40 atic is \& a） 415 \& a 26.753 \& $\mathrm{Pr}_{479}$ \& 5 cma \& 370 \& 30 \& 133063 \& \& <br>
\hline Mritish lerrith ick an th，Rast testies \& 131324＋21 \& 2，68137 \& 3． ks 585 \& 74.083 \& 21147 \& 16， 683816 \& R39 216 \& 4270423 \& \& <br>
\hline  \& 1141 bs \& $10.4 \times 2$ \& 8004051 \& （4）1 \& ${ }^{5} 17$ \& R2， 10 \& 13 cat \& 104） 4 \& \& <br>
\hline 俍 \& －404043 68 \&  \& 3198615 \& $\pm 810$ \& kı0 \& （2sio \& ERA \& 94.403 \& \& <br>
\hline  \& 104913680 \& 14， 40 \& 2， 2158584 \& 103048 \& 21.589 \&  \&  \& 1738148 \& \& <br>
\hline Souik Sca iniande \& 43F4idit \& of 11 \& 37263 \& 1 kss \& ${ }_{54}$ \& $4 * 6$ \& 217 \& 2974 \& \& <br>
\hline Brinh Norit American Coloviea \& 13.50406 \& 75 304 \&  \& 3¢1．10 \& 73 \％ \& 096919 \&  \& $249 \pm 5$ \& \& <br>
\hline $\square$ Weat ludiek \& $19 \cos 3-12$ \& 278003 \& 2731916 \& 453291 \& 12，222 \& 37.09 \& 4719 \& 780256 \& \& <br>
\hline Hust \& 9 4253 \& 37613 \& 3 H 4 4 478 \& 3 35.36 \& 2 keg \& 140 \& 37 \& 114105 \& \& <br>
\hline Gabingd ther Farifgut Yest Indian Colonica． \& 14 dfit is \& 1913186 \& 2，952，23 \& 37， 418 \& 33123 \& 1100 \& 03 \& Cal 023 \& \& <br>
\hline Upited Stater of Amertet \&  \& 313 35 \& 15,407141 \& 621 64.4 \& 214578 \& 01500 \& $8 \mathrm{nc3}$ \& 1058276 \& \& <br>
\hline Texam \& － 0 年！ 169 \& －14， 69 \& 13214.4 \& 1893 \& 4.48 \& \& \& 80.4 \& \& <br>
\hline New Gratuas Yentzuels und Equxdor \& 6．194 83 \& 3 315 \& 8.1589 \& 1860 \& 10091 \& 10 $5^{260}$ \& 1106 \& 238184 \& \& <br>
\hline Erama of \& 47,01676 \& 6ty 4 as \& 30174.450 \& 714 1 \& ac 048 \& 5000 \& 148 \& 1429.209 \& \& <br>
\hline Slatis of the tilu de la liate． \& 7157439 \& 114．427 \& 75 （10） 078 \& 15 dif \& 17611 \& 8284 \& 94 \& 297306 \& \& <br>
\hline Cbils \& 16， 2059 \& 403 508 \& m3 1 543 \& $3{ }^{3} 101$ \& 25.285 \& 414 \& 9 \& $5^{5103} 8248$ \& \& <br>
\hline Peru and Belirm \& ＊，483 17 \& 15 sing \& $13^{5154} 742$ \& 27258 \& 21.318 \& \& \& 410786 \& \& <br>
\hline The Cbannel Lelands \& $721 \mathrm{lv9}$ \& 26， 5 \& cild 775 \& 22 \＃11 \& $0, \frac{17}{}$ \& \％ 353 \& 292 \& 62，475 \& \& <br>
\hline Torik． \& 681180 \& $9+51014$ \& 413232 \& n363 01 \& 1129 468 \& 13514480.5 \& C，46323 \& $2611937]$ \& 499887 \& 23，339080 <br>
\hline
\end{tabular}

Clasification of the Exporte of Articles of Cotton Manufactare, distingushing the Quantrines of each shapped to each of the various Markets of the World, from London, Liver pool, Bristol, Hull, and the Clpde, from the 1st of Jamuary to the 3ist of Decumber, 1847, compared with the same Penods of 1846


Classification of the Exports of Axticles of Cotton Manufacture, duatiggushing the Quantites of each ahupped to each of the varıous Markets of the World, from London, Liverpool, Bristol, Hull, and the Clyde, from the lst of Jabuary to the 31st of December, 1847, compared with the same penods of 1846-(conanued)


Classietcation of the Exports of Artales of Cotion Manafacture, dastngushang the Quantitues of each shpped to each of the vanous Markets of the Forld, from London, Liverpool, Brastol, Hull, and the Clyde, from the 1st of Janaary to the 31st of December, 1847, compared with the same Penods of 1846-(conanzed)

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{conntriss to WHICH EXPORTED} \& \multicolumn{4}{|c|}{Lace Giame tat} \& \multicolumn{4}{|l|}{Coumterpaties atd Quita,} \& \multicolumn{4}{|r|}{Contop Hafiery Caps and
Glova} <br>
\hline \& \& 1846 \& \& 1887 \& \& 1846 \& \& 1847 \& \& 1846 \& \& 4 <br>
\hline \& $\underset{\sim}{2}$ \& yrards \& 4 \& 9arat \& 5 \& number \& $\pm$ \& mirater \& 1 \& dozen \& \& doxteo <br>
\hline Britht North Anseriea \& 285 \&  \& 1744 \& 257 发1 \& 4 \& 16,7)t \& 3 \& 20213 \& 20, \& 69888 \& $0{ }^{3}{ }^{3}$ \& $4 \mathrm{4J} 97$ <br>
\hline Brtish WVest inuter \& 1134 \& 31754 \& 95 \& 170 41N \& 13 \& 23145 \& 4 \& 31467 \& 2125 \& Ith 17 \& 2, coll \& 11.54 <br>
\hline Madrus asd Colcuers. \& \& 7151424 \& \& \%) 3 \& \& 3 cts \& 7 \& 2332 \& 28 \& © 405 \& \& 12.39 <br>
\hline Hombay \& \& 31147 \& \& 18,507 \& \& 433 \& \& \& 214 \& 3,494 \& 109 \& -103 <br>
\hline Ceyier \& \& -4,980 \& \& 140 \& \& 24 \& \& 14 \& 260 \& J69 \& 3 \& 1143 <br>
\hline Mow South Urace \& \& 185.583 \& 308 \& 2677041 \& \& 17432 \& \& 17 cras \& $1{ }^{1}$ \& 8675 \& $2 \mathrm{FE}^{\text {a }}$ \& 350 <br>
\hline Ynn Digmana Latad \& \& $1{ }^{120} 2,2071$ \& \& 90,328 \& \& 3,450 \& \& ${ }^{5} 179$ \& \& 31015 \& \& 10,231 <br>
\hline South Aastralin Sman firer \& \& 02,401 \& \& 57,800 \& \& 4027

300 \& \& 1797 \& \& 3 (58 \& \& 4689
-490 <br>
\hline Wew Z,yaland \& \& \& \& \& \& 21 \& \& $3 \pi$ \& \& (1) \& \& 2379 <br>
\hline Maurlius \& \& 45,710 \& \& 24,728 \& 3 Sc \& \& 11 \& 1,480 \& 30 \& d 71 \& \& 8.340 <br>
\hline Cape of Good Hape amod Algoa Bay \& \& C0,384 \& \& 12,046 \& \& 12,937 \& \& 59n \& \& 7350 \& \& 920 <br>
\hline St Helema \& \& \& \& \& \& 108 \& \& 36 \& \& 488 \& \& 137 <br>
\hline Guerosey and Jorncy \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Gisraltar \& \& 271 \& \& 35178 \& \& 023 \& \& 295: \& 5 \& 2,055 \& \& 2,104 <br>
\hline Malte and tortan Jetaydo \& \& 20 722 \& \& 50, 359 \& \& 1173 \& \& 734 \& \& 151 \& \& $5 \mathrm{Sb7}$ <br>
\hline Hrance \& \& 13700,090 \& \& 6,90, 337 \& \& 300 \& \& 891 \& \& \& 3 \& \& 737 <br>
\hline Holland \& \& $12 \times 13178$ \& \& $12,12,458$ \& \& 271 \& \& 341 \& 153 \& क) 96 \& 1223 \& 5 cas <br>
\hline Brixium \& \& 7870405 \& \& 9,0504406 \& \& \& \& 8 \& 280 \&  \& 33 \& 2011 <br>
\hline Germany tociuding Hague Town. \& \& 3591844 \& \& 30, 913,3808 \& \& 88 \& \& 1,040 \& \& \%.710 \& 4,2097 \& all <br>
\hline Dentrark \& \& 38185 \& \& 06, 43 \& \& \& \& \& \& \& \& ata <br>
\hline Scratep and Norwey \& \& 112809 \& \& 75142 \& \& 78 \& \& 124 \& 73 ! \& 313 \& 605 \& 378 <br>
\hline Rursia \& \& -15,102 \& \& 185973 \& \& yad \& \& 794 \& 1782] \& 1490 \& 20.12 \& 2376 <br>
\hline Spain \& \& \& \& 4313 \& \& 145 \& \& \& \& 985 \& \& <br>
\hline Portugal - \& \& 4418 \& \& 11002 \& \& 50 \& \& \& \& 31. \& \& Sut <br>
\hline Waplun and Stuly \& \& 438120 \& \& 234,50 \& \& 1,251 \& \& 1,615 \& \& 46 \& \& 30 <br>
\hline Austría, inchuding Trieste sand fourge \& \& 64,540 \& \& 265,676 \& \& 186 \& \& \$45 \& \& 126 \& \& 450 <br>
\hline Tuscony and Eardinit \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline inctudug Genon and Lekhoro \& \& 2835003 \& \& 6920 \& \& 575 \& \& 514 \& \& \& \& <br>
\hline Pbpal Territarios -- \& \& 187 , 110 \& \& 7886 \& \& \& \& \& \& 14113 \& \& 1, 0 d <br>
\hline Madeira \& \& 16819 \& \& 360 \& \& 39 \& \& 183 \& \& 1128 \& \& 97 <br>
\hline Untred States \& 5 \& $3 \mathrm{St69} 1 \mathrm{~kJ}$ \& ${ }^{75}$ \& Q-a52, 5.4 \& \& 17881 \& \& 17 HSt \& 3 \& 12529 \& 338 \& 93.4082 <br>
\hline Hexicos \& \& 20 gicis \& \& 80,639 \& \& \& \& 358 \& \& 2 2015 \& \& 78 <br>
\hline St Domidg \& \& 5 50 \& \& 11674 \& \& 20 \& \& 1440 \& \& \& 215 \& $4{ }^{4}$ <br>
\hline Cula \& \& 5t0 385 \& \& 1159661 \& \& 4, $\mathbf{4} \mathbf{3} \mathbf{3}$ \& \& 11048 \& 80 \& 32515 \& \& 9) 05 <br>
\hline Bt Thamem \& \& 211492 \& \& 101896 \& \& 1 scog \& \& 4,643 \& \& 2.65 \& 109 \& 1175 <br>
\hline Hemedurns \& \& 37 int \& 18 \& 150 23:8 \& \& 63 \& \& 413 \& \& 551 \& \& 19 <br>
\hline Colnmbia \& \& $235-247$ \& \& 45970 \& \& ${ }^{81}$ \& \& 774 \& \& 1678 \& \& 1049 <br>
\hline Bratl \& \& 283, 5 (5) \& \& 453564 \& \& 2,340 \& \& As, 31 \& \& J 213 \& \& 1704 <br>
\hline Lut Plata \& \& \& \& 92 18 \& \& \& \& 366 \& \& 3815 \& \& 1167 <br>
\hline Chitiz had I 4 ru \& \& 432,608 \& \& 535 \& \& 90 \& \& 735 \& \& di 707 \& \& 1-732 <br>
\hline Syria and Paleatino \& \& \& \& \& \& \& \& \& \& 1010 \& \& <br>
\hline Turkey and Grecce \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Smyrnat \& \& 129214 \& \& 40488 \& \& 23.2 \& \& 185 \& \& 1500 \& \& 959 <br>
\hline Fsypt \& \& 1,3323 \& \& \& \& \& \& \& \& \& \& <br>
\hline cistra \& \& 3,400 \& \& 1119 \& \& 300 \& \& \& \& $\mathrm{H}_{4} 2$ \& \& -15 <br>
\hline Jaya Singapory \& Phi tippano 1 lagals \& \& 42,025 \& \& 781 \& \& ${ }^{9}$ \& \& 300 \& \& 1205 \& \& 318 <br>
\hline Whacispancar med Bourbon \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Hetictane of Ajrict \& \& \& \& 5147 \& \& \& \& \& \& 961 \& 4 \& 997 <br>
\hline Arores \& \& 13, 610 \& \& \& \& 69 \& \& 69 \& \& dis \& \& 143 <br>
\hline Topentite ond Gauary \& \& 7310 \& \& 2057 \& \& 845 \& \& 776 \& \& 967 \& \& 0 <br>
\hline Condt of Arrise unelad ing Alglery \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Cape Verd lalands \& \& \& \& \& \& \& \& \& \& \& \& 3 <br>
\hline Sodila Eeat \& \& 6500 \& \& \& \& \& \& \& \& 172 \& \& <br>
\hline Tutal \& 431 \& 83.780 1 \& 3418 \& 94072818 \& 115 \& 1149 \& 79 \& 107540 \& 1012 \& 34549 \& $\pm 0 \times 19^{1}$ \& 327626 <br>
\hline
\end{tabular}

Classification of the Esports of Articles of Cotion Manufacture, dustinguishing the Quantinus of each shpped to cach of the varsous Markets of the World, from London, Laverpool, Bristol, Hull, and the Clyde, from the 1st of January to the 31st of December, 1847, compared with the same penods of 1846-(contanued)


## MISCELLANEOUS STATEMENTS OF THE PRICES AND THE PROGRESS OF COTTON FABRICS

Ma Baines，who has with great pams collected valuable information，in his work on the＂Cotton Manufactures of Great Bntam，＂states that＂a very good hand weaver，twenty five to thurty years of age，could weave twa preces of mine－ enghth sheetings per week，each twenty－four yards long，containing 100 shools of weft in an meh The reed of the cloth being forty－four Bolton count，and the weft and warp forty hanks to the pound In 1823，a steam loom weaver，about fifteen years of age，attending two looms，could weave seven sumilar preces in a weeh
＂In 1826，a stenm－loom Feaver，about fiteen years of age，attending to four looms could weave twelee similar preces in a week，some could weave fifteen pieces
＂In 1833，a steam－loorn weaver，from fifteen to twenty years of age，assisted by a nil about twelve years of age，attending to four looms，could weave erghteen sumlar preces in a week，some can weave twenty preces．＂

The progressive improvements thes given by Mr Banes have continued to the present time，and＂now（1845）a steam loom weaver，about fitteen years of age， aftending to two looms，can weave eleven preces of the same cloth，and a steam loom weaver suxteen to twenty years of age，assisted by a garl about fourteen years of age，attending to four looms，can weave twenty－two sumular pueces in a week＂

Mr Porter，in his estmable and most instructive work on the＂Progress of the Nation，＂gives the following statements

Tabres showing the effect which succesave mprovements have had in duminalung the price of cotion cloths，the same article－n piece of calico known in the trade as 72 翟－as given throughout．

| YRiP星 | trices pand for Weartry | Pricety prad tar Coltors | Beiliog pricu of Carleot | Barning of the Wasterp Por Week | YRARS． | Pricest paid for Weaving | Prives parifar Cuttoms | $\begin{gathered} \text { Selletg pried } \\ \text { of } 7 x \\ \text { Culucost } \end{gathered}$ | $\begin{aligned} & \text { Ror } \\ & \text { of } \\ & \text { Pur } \end{aligned}$ | lioga the rere ank |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1214 | ＊ $\begin{gathered}\text {＊} \\ \text { t }\end{gathered}$ | $9{ }^{1}$ | 180 | － | 1899 | 14 | 08 | $\begin{array}{ll}8 & d \\ 8 & 9\end{array}$ | ＊ | $\\|^{\prime}$ |
| 3815 | 80 | 18 | 180 |  | 150 | $t$ | 0 0， | 88 |  |  |
| 1816 | 3 d | 18 | 130 | 140 | 1331 | 14 | 001 | 89 | 12 | 0 |
| 3817 | 36 | 120 | 1035 |  | 1832 | 14 | 0 0 5 | B 0 |  |  |
| 3818 | 120 | 110 |  |  | 1883 | 14 | 0 9\％ | 86 |  |  |
| 1819 | 20 | 12 | 0178 |  | 1831 | 1 d | 0 10 | 9.4 |  |  |
| 1820 | 30 | 11 | 025 |  | 1835 | 11 | 010 | 9 | 12 | 6 |
| 1891 | 18 | 611 | 0158 | 140 | 1836 | 14 | 0 93 | 100 |  |  |
| 徴3 | 18 | 0 10 | 0 1＋ 51 |  | 1837 | 14 | 07 | 3 |  |  |
| 1823 | 18 | ${ }^{5} 104$ | 0145 |  | 1539 | 13 | 07 | B 8 | 11 | 0 |
| 3824 | 18 | 0104 | 0140 |  | 15359 | 1 a | 0 12 | 80 |  |  |
| 1895 |  | $1 a\{$ | 0140 | $\} 28$ | 1840 1810 | $\begin{array}{ll}1 & 3 \\ 1 & 84\end{array}$ | $\begin{array}{ll}0 & 6 \\ 0 & 61\end{array}$ | $\begin{array}{ll}7 & 3 \\ 7 & 0\end{array}$ |  |  |
| 1893 | 18 | 12 ？ | $018^{10} 6$ | $\int 203$ | 16－12 | 1 1 | 48 | 50 |  |  |
| 1295 | 16 | 08 | 0106 |  | 1543 | 118 | 0 4 4 | 50 |  |  |
| 1887 | 15 | 0 T | 010 |  | 1814 | 111 | $0 \times 4$ | 4） 9 | 11 | 0 |
| 1889 | 14 | 07 | 0108 |  |  |  |  |  |  |  |

Sbort tume and hix preeks maro－qut＂
"The rednctons made presously to the time embraced by the foregone table are shown by the folloning list, which wis given into the Houge of Commons in 1812 on oceasion of the inquirv then mide into the effecis of the orders in council, issued in 1808, in retalation of the Eerlin and Milan decrees of Napoleon

Parces paid for Weaving Twenty-four Yards of Cambric at Stoch port, m Cheshre

| YEARS | Vulage |  | Talue | YEAR8 | Vatue |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1604 | 92 | 1805 | \% | 1810 | 19 |
| 3ath | 19 | 1407 | 13 | 1814 | 10 |
| tE64 | 15 | 1n09 | 12 | (1819 | 10 |
| $1 \times 0$ | 18 | 1800 | 13 |  |  |

"The quantity of twenty-four yards above stated is as much as a good workman will produce of this description of cloth in a week The low wages paid for oraking the same th the latter years, when every article of provisions was excessively hinh in price, and when even at these insufficient rates, but hitte employment was to be bad, caused great tod wide spread misery among the manufacturng population'

The following statement of the progress of the power-luom is taken from $\mathrm{Mr}_{r}$ Baines' "History of the Cotton Manufacture" -
"In 1813 there were not more than 2400 poner looms in use yet this was enough to alarm the hand-loom weavers, who, attrbuting to maci-nery the distress caused by the orders in council and the Amencan war, made rotous opposithon to all new machines, and broke the power-looms set up at West Iloughton, Middleton, and other places Nevertheless, the great value of the power-loom haing now been proved, it was adopted ly many manufacturers, both in Enyland and Scotland and it will, no doubt, in tume supersede the hand loom The rapidty wath which the power-ionm is comug into use is proved by the following table the paticulars of which were stated by $\mathbf{R}$ A Slanty, Liq MIP, in the House of Commons, on the 13th of May, 1830, and which reat on the authonty of Mr Kennedy

Nunber of Power-looms in 「ngland and Scotland

|  | 1820 | 1812 |
| :---: | :---: | :---: |
| Engitand scouland | $\begin{gathered} \text { 1utglver } \\ 1210 \\ 2,400 \end{gathered}$ | $\begin{gathered} \text { number } \\ 45 \text {, } 00 \\ 10000 \end{gathered}$ |
| Totat | 14150 | 33300 |

"This number would appear to have been somewhat under-rated Dr Cleland states that in 1828, the Glasgow manufacturers had in operation in that city and elsewhere 10,783 steam-looms, and 2060 more in preparation total 12,843 He supposes there was wincrease of ten per cent between 1828 and 18.32, which would make the number 14, 127 in the latter vear 1 his is independent of other parts of Scotand, unconnected uith Glasgow In 1833, evidence was given before the Conmons committee on manufretures commerce, \&e that, in the whole of Scuiland, there were 14,970 steam looms We may theretore safely tahe the number of power looms in Scotiand at the present time (1830) at 15000

In England, the great increase took place during the years of speculayon, b824 and 162, and coraparatwely few power luon mills were built betwixt that lime and 1832 But in 1832, 1833, and the former part of 1834, the trade has been rapuly
extending many mills have been bult, and many spinners have added power-loom factories to their spinning-milks
"Mr W R Greg an extensive spinnor and nanufacturer of Bury gave eridence before the select committee of the House of Commons on manufactures \&c in August, 1833, that the number of power-looms had very maternily increased of late years in and about Bury, and also at Stockport, Bolton, Ashton, and in Cheshre He stated that he did not know any person who was then butding a spinmag mill without the addition of a power loom miti
"Mr Kennedy s estumate for 1829 was probably too low for England, as well as for Scoland at all events there are good reasons for believing that there must now be 85,000 power looms in England This conchision is deduced froma compatation of the number of workmen employed in poner-loom weaving founded on actual returos, obtained by the Factory Commissoners from the cotton-milis un Lancashire and Cheshure It is also supported by the calculations of Mr Bannatyne, and Messrs Samuel Greg and Co , the spinners and manafacturers of Bury At the present trme (1835), the machmemakers of Lancashire are making power looms matls the greatest rapidity, and they cannot be made sufficently fast to meet the demands of the manufacturers. The result we have arrived at is as follows -

Estmated Nimbler of Power-Loams in Great Britam in 1888.

"While the number of power looms has been mtiltiplyng so fast, the band-looms employed in the cotton manufacture are belseved not to have diminished between 1820 and 1834, but rather to have noreased. In the former gear they were estumated by Mr Kennedy at 240,000 In 1833 , Mr Grimshaw, a spinner and mantuacturer of Colne, gave his opimion before the committee of the Commons on manufactures, \&e, that the number of hand-loom cotton weavers in the kingtom was about 250000 whist Mr George Sontb, manufacturer, of Manchester, estmated them at only 200000 In the year 1834, several intelhgent workmen and manufacturers from Glasgow eave eridence to the Commons' Commitee 'On Hand-Loom Weavers,' that there were 45,000 or 50,000 hand-loora cotton weavers in Scotiand alone *
"Since the pablication of Mr Basues' volume, returns have been made by the inspectors of factones of the number of power-looms actually in use in factories at the end of the year 1835, meach county of Great Britan and Ireland From these returns, an abstraet of wbich we have goven, it appears that the total number of self-acting looms in the United Kingdom employed for weaving cotton, was at that tume 109,626 , thus proving the accaxacy of the foregong calculations
" It does not appear hely that any considerable addition will in futare be made to the number of hand looms employed for cotton weaving, whereas the machnemakers of Lancashare have at defferent periods been engaged to the full extent of ther power in constructing power-Iooms, so that therr number increases con tmually We should be wrong, howerer, if we inferred that band-looms are lying unemploged Power looms have not hitherto been found generally applcable to the production of fine cloths, or what are called fancy goods The
demand for these fluctuates considerably, and is at times greater than can be readuly supphed In the report of the select comanstee of the House of Commons, rpponted in the summer of 1834 , to examine the numerous petitions presented by the hand loom weavels, we find a statement given in cvidence by Mr Makin, a manufacturer of Bolton, to the following effect -
"I know that there is at present no surplus of wewers I go mone mines from the siat of my manuficture on one side to get weavers, and I am putting out work nine mules acro s the country in another part to eet weavers, and if I knew where I could get a centan description of weavers, by gong nue miles another way, I should go But it th a strange fact, that, whist the demand for hand-loom cloth is greater than the production yet the wages do not rise and in about two months from this tume (July, 1834) I hnow, fiom the experience of past yeats, that there will be demands for thousands of weareromore than can be obtained"

## $\mathrm{M}_{\mathrm{r}}$ Porter observes-

'The fact stated by Mr Makin, although secmingly at variance with the ordnary law of demand and supply, may admit of this solution, --that, when they can be furnished within a certan lturted price, hand-loom eloths meet with an extensive sale, but that, when the hmit is passed other gogds of home production, or stmilar goods of foresgn make come into successfal competion with them, so that the manufacturers are not enabled by the most extensive demand, to merease the rate of wages patd to the weaters
$\mathrm{M}_{\mathrm{r}}$ Stanway, who was under the direction of Mr Cowell, one of the Factory Commissioners appointed to collect information as to the employment of children in factories, states that-

The subsequent calculation does not am at fixing the whole number of operatives dependent upon the cotton trade for subsistence, but only of that part of the operative body ubich earas a livelshood in cotton factories moved by power, and is employed in carring on the preparag, epmang, weaviog, and accessary meehanical deparments witian the walls of them

It does not comprebend hand loom weavers, printers, bleachers, dyers, cottonthread lice makers (an enormous and growing brinch of the cotton manuinctuce), and many cther branches of manufacture, either anising out of, or inmedtately dependent upon the spinning of cotton by power It comprebends thosc operatses alone who halusually work in cotton factores It show, their body to consist of 212,800 persons, and tuearn annually the enormous sum of $5,777,434 l$

- The totai quantity of cotion consumed in the spmong of yarn in Great Brtain, in 1832, as stated in Burn s Commercral Glance, was 277,260,490 lbs, and of thas quantity 27327 [ $^{\circ} 0 \mathrm{fbs}$ was constmed an Scothand, leaviag for the eonsumption of England 249,933,770 lbs
- The nett loss of cotton in spinning is estumated variously by different individuals In the calculations of Mr hemedy, made use of by him in a paper published in the - Tran actions of the Mancbester Literary and Philosophical Soctety it is taken at $1 \frac{1}{2}$ oz jer lb while Dontgomery, in has Theory and Practioe of Coton Spamag, computes it at ly oz and Bura at lyoz, but as the amount taken by Mr Kennedy is that whech appears to be generahy considered corsect, it is adopted in these calculations
"If thoo, from the quantity given above, we deduct $1+$ oz per 1 b , or $23,431,253 \mathrm{lbs}$, we cintl bave the total weight of yara produced 226502117 lbs

The average number of hauks tm each pound of yarn spon ts considered, by apparenth a majority of persons convalsant with the subject, to be forty Montgomery tales the avcrage counts spun in Great Britan at fifty, which, taking into accoudt the
finer average numbers spun in Scotland than in England, would fix the counts nearly as above stated
"The retuins made to the Lancashire forms of inquiry, as given in previous tables, show an average of finer counts than forty, but, as the returns were better made from the fine mulls than from the coarse, and from Manchester, where the finer yarn is spun, than from the country, it is evident that lower numbers ought to be taken than thoge shown in the returas, and, as the general opinon appears to be in favour of forty, this average is adopted
"Three mils, in clifferent situations, and of average capabilities, made a return of the quantity produced by them th the month endang the 41 h of Mav, 1833 and, as the average counts of the whole were 3998 hanks to the lb , and as they also gave the number of hands emploved on spaning during that month, and the duration of their labour, they furnished data from which mav be easily calculated the total number emploved in factories in England in preparing and spinning cotton
"In the mill of the first, 344 persons in the spinning department, working 276 howrs, produced-
$18,000 \mathrm{lbs}$ of Nos 30 to $\$ 9$
18000 lbs of Nos 381048
2400 lbs of Nas 35020170
" In the second mill, 245 hands, working 270 hours, produced-
$1,795 \mathrm{lbs}$ of No 12.
4285 lbs of No 22
$38,838 \mathrm{lbs}$ of No 40
"And in the third, 110 hands, working 286 hours, produced-

## $16,700 \mathrm{lbs}$ of No 40

"The avcrage counts of the three belng, as before stated, 3998 , and the produce $95,018 \mathrm{lbs}$
"The total number of hours worked will therefore be $344 \times 276+245 \times 270$ $+110 \times 286=192,554$, and the produce of each person per hour, $195918=$ $049,346 \mathrm{fbs}$
"The usual estumate of 300 vorking days per annum of $11 \frac{1}{2}$ hours each, or saxtymine hours per week, would give $049,346+115+300=1702437 \mathrm{lbs}$, the produce
 ployed tan the preparation and apmung of cotion in England
"On examination of supplement ( $\mathrm{Z}^{*}$ ) it witl be seen that, in the 67,819 persons of whom returns were made to the commission, there were 42,401 engaged in preparing and spinning cotton, 23,920 in the weaving department, and 1498 as engineers, mechanics, roller-coverers, \&c
"If, then, the same proportions are taken as existing in the cotal number of cottonworkers which are found in the returns made to the Lancashire forms of inquiry, the number of persons engaged in the manufacture of cotion-cloth in factories will be 75,055, and of those employed an engineers, \&e, 4700 , making, with the 133,045 in the spinning department, a general total of 212,800 persons engaged in cotton-factories
"Which total number of 212,800 persons may be divided and distributed, by adopting the proportions given in the returas made to the Lancashare fortos of inquiry, so as to show the probable number of persons employed in each of the eight branches or departments of cotton working, and the aggregate amount of their nett earnibga per month"

[^16]| FMPLOYEDIN | Adalt |  | Chaldrea under Bjghteen Y eara of Agt |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mals: | Pomales | Maler |  |  | Prmales. |  |  |
|  |  |  | If ithe drect <br> 1 wploy of <br> Mastera | It tho direct Ewpl? of $6 \rho_{\mathrm{pt}}$ ratiren | $\begin{aligned} & \text { Sto ployers } \\ & \text { uncertais } \end{aligned}$ | In tho direct Eniplay nf Mater | It tbe Aicert Fruple y 016 ratinen | Enpployera ageritain |
| Cls ming sod apreading cottoo | number | $\underset{\substack{\text { mumater } \\ \rightarrow 417}}{\substack{\text { che }}}$ | number | Dunitur ${ }^{\text {r }}$ | $\underset{31}{\substack{\text { mumber }}}$ | $\begin{gathered} \text { nambur } \\ \text { SN: } \end{gathered}$ | nutwher | namber 15 |
| Cardup ${ }^{\text {a }}$ | 10351 | 15 6168 | 4,898 | 401 | ${ }^{-1}$ | 8 cog 9 | : $\boldsymbol{*}^{*}$, | 163 |
| 31 lag praning | $2{ }^{2} 187$ | $\pm 10$ | 4033 | 28,634 | 25 | 1250 |  | 84 |
| 7 heg Lesespinaday | ${ }^{3}$ | Cata | 140 | 23 | 140 | 7 \% Yes | 15 | 150 |
| Ratios | 722 | 11.108 | 18 | 25 |  | 978 | 76 | 119 |
| Ne rag | 20,430 | 28,560 | 4, 5815 | 2 m | 204 | $12 \mathrm{it} \mathrm{\%}$ | 4801 | 149 |
| Reller-coreriog Engroters | 261 3,759 | 369 <br> 84 | 151 | 3 | 19 | 31 3 | 24 |  |
| Toral | c) 2a3 | 65 774 | 16314 | 26.48 | 695 | 26355 | 42.05 | 650 |



## Mr Porter observes -

"The computation made by Mr Stanway gives 212,800 as the number of persong of all ages employed in spinning and weaving factories in the United Kingdom, while the nctual number given in to the inspectors in 1835 amounts to 220,143 persons, being a daference of only 7334 , or not quite $3 \underline{d}$ per cent Before giving the summary of the statements made by the inspectors in 1835 and 1839 th may be satisfuctory to insert the following partreulars derived from returns made to the commossioners by the proprictors of 225 cotion-mills in Lanoashire

Tasure exhbitugg Returms of 215 Cotton-Mills in Lancashite

| PLACE WHERE EMPIOTRD | ADULTs |  | CRILDHEN UNDER EIGRTESN YEARS |  |  |  |  |  | Toral Employed | $A_{\text {geregata }}$ All ont of Elule Vety the Month ending the titb of May 1*:33 |  | Pald by <br> Pited <br> Datly <br> Nages | Pant en properation to the Quantuly producea. |  | Nuctaber whode at Papment fo BDt Efren inReturna |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Maten | Faramea. | Matee |  |  | Pewates |  |  |  |  |  |  |  |  |  |
|  |  |  |  | In then dircet Efoplog ratives | Fmployens <br> nacertalo | In the direse Rnpploy nf Anstera | In the difuct Reoplay of Eipe. rathred | Employers uncertaid |  |  |  |  |  |  |  |
| Whathater and immodiate neigh hourthood <br> Stoceport nad heatod Noms Duetenficid sted Stayley Bridge Hyde Brinningtos ke Thecruble ciforop ic. Oldbacs <br> Warrington <br>  <br> Toral | numbler | ubur | number | zumber | agmber | meper | axmber | butuber | number |  | - a | nutsber | nut |  | number |
|  |  | 5684 | 1734 | ${ }^{\text {asfa }}$ | 20 | ${ }_{2762}^{250}$ | 1600 | ${ }_{88}^{89}$ | Sk |  | ${ }^{\text {d8 }} 80$ | 11690 |  |  | ${ }^{137} 7$ |
|  | ${ }_{2}^{2601}$ | 2425 8,421 | ${ }_{6} \times 1$ | ${ }_{0}^{1078}$ | 8 | 980 | 5418 | ${ }_{26}^{88}$ |  | 18.40 | ${ }_{108}^{105} 5$ | 3,770 8803 |  | 17 | ${ }_{\substack{1 d 2 \\ 2029}}$ |
|  | 2,69] | 910,7 | 1076 | 839 | st | 3991 | 180 | 13 | 30,242 |  | 1971210 |  |  | ${ }_{87}$ | 12.386 |
|  | ${ }_{1221}$ |  | 235 | 691 |  | 429 | 393 | 30 | 4976 |  | 14 104 | 1790 |  | 17 | 657 |
|  | 1054 |  | 810 | 8 xg | 40 | 00.4 | 320 | 88 | 3.035 | 114 | $\mathrm{ch}^{9} 9$ | 9, 12 |  | *05 | 237 |
|  | 1630 | 1483 | 2×3 | 1804 | a | 900 | 730 | 6 | 6174 |  | 18157 | 4420 |  | 3 | 50 |
|  | 834 | 335 | ts | 10 |  | 119 |  |  |  |  | 19 a 65 | 349 |  | (4) | 815 |
|  | ${ }_{18}{ }^{1}$ | 247 | 7 | ${ }_{48}$ |  | 127 | 25 |  | 76 |  | $385810{ }^{3}$ | 230 |  | 449 | 17 |
|  | 19247120902 |  | 4850 | 82.3 | 220 | 8398 | 4301 | 200 | 67840 | 14183 | 3as 574 | 29613 |  | 950 | 6236 |
|  | $\triangle D U L T B$ |  | caildren under etghtern years |  |  |  |  |  |  |  | Persou: Whose Agu and Sex are aot given in Axturng | $\begin{array}{c\|c} \text { Teral } \\ \text { Put } & \begin{array}{c} \text { Parsons } \\ \text { Baptogod } \end{array} \end{array}$ |  | Aggregate Amavant of their Nett Earbinpaint ending the 4th of May 1893 |  |
|  |  | Pemalic | M ${ }_{\text {Hald }}$ |  |  |  | Females |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | $\begin{aligned} & \text { In the } \\ & \text { dinetr } \\ & \text { Eruploy } \\ & \text { of } \\ & \text { Mantery } \end{aligned}$ |  | In the diract Kraplay of Dpsratives | Enapleyers uncertaina | In the direct Empluy of Nabtex | In tho olacer Employ of ope ratues | Emplogek <br> cucertida |  |  |  |  |  |  |  |  |  |
| Oleaning aud epreading potitan | matumer |  |  |  | $\begin{gathered} \text { pexubur } \\ 1 \\ 147 \\ 7692 \\ 7 \\ 8 \\ 8 \\ 123 \\ 1 \\ 1 \\ 4 \\ 4 \\ \hline \end{gathered}$ | mumber1024893938650 | $\begin{gathered} \text { numibur } \\ 160 \\ 2581 \\ 400 \\ 702 \\ 702 \\ 9859 \\ 98 \\ 10 \\ 3 \\ \hline \end{gathered}$ | number | $\begin{gathered} \text { sumber } \\ 3 \\ 80 \\ 80 \\ 20 \\ 91 \\ 48 \\ 38 \end{gathered}$ | 7umber <br> 2411 110 <br> 005 |  |  |  |  |  |
| Ounding Alemplatag | 3304 7243 |  |  |  | \% $\begin{array}{r}140 \\ 2701\end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Throwtestpuaning | 203 |  |  |  | ${ }^{6}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| keotiog Weaviag | 239 4.314 |  |  |  | 18.48 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | \% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| med sac. | 1194 |  |  |  |  |  |  | 12 |  |  |  |  |  | 005 090 |  |
| Toyal |  | $20{ }^{1}$ | 62 | 889 |  | 8823 | 220 | $8 \geq 8$ | 4304 | 200 |  | 1076 | 67 |  | 14 | 40, 3.31 |


| COUNTIES | Pactorics |  | Hetwoen F pht and Treet o Ycars |  | Betuces Twelve and <br>  |  | Retorerra Thirteen mod Wigblean Xears. |  | Abave kifbtepa Yeurs |  | Number of Torde rouns cmplosed |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | At Werk | Etopty | \$folce | Femalep | Malea | Fematice | Malea | Ferasien. | Males | Fomalea | Males | Pcronlea | Totat |
| Evolenn | namber | number | namber | nucaber | anmber | number | namber | number | vumber | numbuet | numblr | nutalar | namis. |
| Cbester | 103 | 7 | 42* | 106 | 1448 | 1296 | 3,479 | 4315 | 9971 | 10069 | 15,516 | 15196 | 31512 |
| Caniberland | 19 |  | 8 | 4 | \$7 | 88 | 169 | 832 | 393 | 053 | 625 | 10.3 | 16.4 |
| Derby | 42 | 3 | 183 | 12 | 504 | 5is | 1073 | 1094 | 2885 | 1934 | 1614 | f 30 | 108.30 |
| Durbar | 1 |  |  |  |  | 3 | 1 | 11 | 8 | 11 | 9 | 21 | ${ }^{13}$ |
| 1,sncastar | 653 | 32 | 280\% | 183 | 6419 | 5261 | 10855 | 20.365 | 34071 | 3464 | [00,1+1 | r $x_{2}, 2 \times 4$ | 122435 |
| Leaceater | $f$ |  | 0 |  | $6{ }_{6}$ | 17 | 180 | 09 | 10 | 138 | 325 | 207 | 502 |
| Mudicu x | 7 |  | 29 |  | 24 |  | 103 | 14 | 62 | 119 | 217 | 133 | 359 |
| Notinglams | 20 |  | 17 | 23 | 68 | 131 | 139 | 3 Ez | 250 | 705 | 481 | 1242 | 1743 |
| stafiora | 13 |  | 2 | T | 67 | 118 | 291 | 403 | 409 | 703 | 4.3 |  | 2043 |
| York Weat Riding | 12in |  | 469 | 387 | 829 | 543 | 1602 | 2.031 | 2.537 | 373 | 5187 | 8724 | 10,2]: |
| Torat. Engiand | 1070 | 12 | 4030 | 3073 | 0190 | 78.5 | 23984 | 20,800 | 50,675 | 5310 | 6753 | 94917 | 183002 |
| Whles (FIInt) | 5 |  |  |  | 6 G | 33 | 140 | 208 | 750 | 459 | 452 | WP | 1151 |
| Scortang | 158 |  | 45.4 | 838 | 123 | 1832 | 2845 | - 507 | 6168 | 12,403 | 10,399 | 22,051 | 88580 |
| 1 relama | \% 8 |  | 14 | 56 | 153 | 181 | 296 | 561 | 960 | 1,543 | 1639 | 2,072 | 4311 |
| Total Unted Eiogdomm | 1262 | 43 | 9593 | 3699 | 10563 | 1911 | 27251 | 1885 235 | 58053 | 67, 02.4 | 1004.35 | 119 b35 | 300134 |

Siatement of the Number of Cotton Mills and the Persons Employed in them during the Year 1839

| COTNT | M I HES |  | TOTAL FRR8ONS RHPLOYGD |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| colvtra | Worklog | Empty | Mele | Finuale | Iotala |
| Encland <br> Cheptire | number 14 | $\begin{gathered} \text { number } \\ j 2 \end{gathered}$ | $\begin{aligned} & \text { namber } \\ & 17670 \end{aligned}$ | gilluaher Is 6rd | $\begin{aligned} & \text { Dumbly } 5 \\ & 39352 \end{aligned}$ |
| Cumberiaud | 13 |  | T20 | 1703 | 了 ins |
| Derry | 85 | 10 | 4,231 | 6, 231 | 104920 |
| Glouccster | 11 |  | 14 | 14 | 43 |
| Luncsatar | 1125 | 61 | 6989 | 82,5124 | 153 |
| fencerter | ${ }^{3}$ |  | S 5 | 150 | 214 |
| Middemat | 11 |  | 28. | 451 | 579 |
| Forlow | 1 |  | ${ }^{6}$ | 194 | 139 |
| Nottingham | 13 |  | 451 | 1006 | 146 |
| Shropthire | 1 |  | 15 | 84 | $39^{39}$ |
| Statiord | 15 |  | 734 | 18.84 | 208 |
| \$intray | 4 |  | 78 | 110 | \%od |
| Warwick | 164 |  | 43 4002 | 041 | ${ }_{\text {12 }}^{88}$ |
| York | 153 | 5 | 4600 | $00^{3}$ | 12,4-1) |
| Toras | 1,598 | 69 | 98856 | 118380 | 218130 |
| Flut | 5 |  | 375 | 634 | 1010 |
| Stotland <br> Aherdean | 4 |  | 3 ta | 1444 | 170 |
| Ay5 | 4 |  | $2 \pm 00$ | 6.3 | 053 |
| Bute | 4 |  | [154 | 271 | 4.5 |
| Dumbigrton | 4 |  | 910 | 854 | 1. |
| Tuatafines | 1 |  | 0 | 20 | 106 |
| Kirkcudidright | 1 |  | 7 | ${ }^{97}$ | $t 4$ |
| Lanark | 107 | 4 | 6,00) | 14280 | 20 asa |
| Lintitheot | 4 |  | 45 | ${ }^{51} 5$ | 2000 |
| Perth | 58 |  | 051 | 1163 | 171 |
| luonfory | 58 3 | $\pm$ | 2 ${ }_{4}^{404}$ | 4697 431 | 7 col |
| Toral. | 102 | 6 | 1094 | 24684 | 3508 |
| Antrin | 10 |  | 634 | 1374 | 2100 |
| Armagb | 8 |  | 75 | 134 | 210 |
| Cork -- | 1 |  | 19 | $3{ }^{5}$ | 55 |
| Dowa | 3 |  | 230 | 307 | 487 |
| Dublin | , |  | S0 | 952 | 314 |
| Hatiape | 1 |  | 03 | 134 | 11 |
| Maso | I |  | 2 | 77 | *20 |
| Queen a Cuanky | , |  | 12 | 33 | 59 |
| Waterfard | 1 |  | 614 4 | 485 | 1011 |
| Wexford | 1 |  | 13 | 13 | 01 |
| Torat | 24 |  | 1763 | 2,817 | 4872 |

Sitatcment of the Number of Cotton Factones m Operation an different Parts of the United Kingdom, whth the Number and Power of the Engnes, and the Number and Ages of Persons employed therem in the Year 1839

| Bicls <br> Minn at work Milts exply | Emideto |  | Wang |  | Scotcent |  | liselind |  | Undese Kimpmoz |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | number 130) Es |  | number |  | $\begin{gathered} \text { numader } \\ 198 \\ 6 \\ \hline \end{gathered}$ |  | $\min _{24}$ |  | numiber 1819 95 |  |
|  | [mpryer | Power of Fagines | Enginet | $\begin{aligned} & \text { Power } \\ & \text { of } \\ & \text { Engines } \end{aligned}$ | Engute | $\begin{gathered} \text { Posper } \\ \text { of } \\ \text { ofines } \end{gathered}$ | Engmen | Power or E tive | Bngiaes | Pomer of Englues |
| Stiatn power Hater power | $1+22$ 3 | 40 9640 983 | 5 | $\begin{aligned} & 104 \\ & 140 \end{aligned}$ | $\begin{gathered} 198 \\ 73 \end{gathered}$ | $\begin{array}{r} 5019 \\ -2745 \end{array}$ | $\begin{aligned} & 19 \\ & 22 \end{aligned}$ | $\begin{aligned} & 817 \\ & 57 \% \end{aligned}$ | $\begin{gathered} 1611 \\ 874 \\ \hline \end{gathered}$ | $\begin{aligned} & 46,8 \pm 7 \\ & 12177 \\ & \hline \end{aligned}$ |
| $\begin{gathered} \text { Pgitiows En } \\ \text { pLOVED } \end{gathered}$ | Male* | Femalea | Males | Pemajer | Males, | Ferualeg | Male | Femalea | Males | Females |
|  | nursbar | numitur | number | number | number | mamber | numes $r$ | number | number | number |
| Under 10 year | 1048 | 673 | 7 | 1 | 79 | $5{ }^{5 *}$ | , |  | 1100 | ${ }^{7} 115$ |
| 10 to 11 | 14 | 980 | 14 |  | 147 | 120 | 0 | 9 | 1818 | 1100 |
| 1112 | 19 | 1178 | 14 | , | 1810 | 170 | 9 | 1 | 1870 | 13.4 |
| 1213 | $\pm 227$ | 145 | 14 | 23 | 249 | 954 | 19 | 5 | 7400 | 977 |
| 13 it | 5 \% | 1040 | 69 | 36 | 1503 | 7159 | 13 | 943 | 11417 | 12334 |
| 14 15 | 549 | 100008 | 10 | 53 | $11+4$ | 2,914 | 458 | 231 | 51807 | 12.80 |
| 15 16 | 7005 | A 5 | 14 | 40 | 818 | 1075 | 150 | 235 | ${ }^{0} 1083$ | 11514 |
| 16 17 | 4150 | 8117 | 9 | 43 | 534 | 1980 | 106 | $1{ }^{2} 2$ | 4805 | 16193 |
| 17 is | 4186 | 470 | 28 | 59 | 396 | 183 | ${ }^{60}$ | 201 | 4960 | 9344 |
| 1819 | 5146 | 9308 | 8 | 411 | 71 | 2103 | 65 | 284 | 8146 | 11735 |
| 19 10 | $3 \mathrm{tr3}$ | \% 378 | 10 | 48 | 311 | 1835 | 56 | 191 | 4071 | 906 |
| ? 1 | 3749 | 0974 | 7 | 标 | $N 7$ | 149 | kn | 926 | 4 4]9 | 8.14 |
| 榇 and uphrarda | 44819 | 41167 | 164 | 17 | 3116 | 83.6 | 858 | 1023 | 50.52 | 53971 |
| Totar. | 99 nct | 118280 | 376 | 63.4 | 10,044 | 24, 5184 | 1765 | 2387 | 119001 | [146,304 |
| Totat mi lea and <br> femiles |  |  | 1010 |  | 3,565 |  | 4629 |  | 2955326 |  |

- The numbers given in the foregong summiry have reference only to those branches of the cotion manufacture which are carned on un spinning and weaving $t$ ictories and do not inclucle the persona employed in printang and diveng, nor the mimerous hand loon weavers, with many other branches of the manufueture, and the great numbers who are othervose directly or tadurectly dependent upon zt for support

Mr MCulloch has estrmated "allowance being made for old and intirm persons, children, \&c, dependent upon thove actually employed in the vanous departments of the cotton manufacture, and in the construction, repars, \&c, of the machinery and buildugs required to earry it on,' that the entare cotton manufacture "must furnsh, on the most moderate computation, subsistence for from 1,200,000 to $1,300,000$ persons '

By Mr Stanway's method of computation, we find that, for spinning the quantities of cotton used in 1801 and subsequent periods, the following number of persons would be required -

"These numbers are exclusive of the persons who were enployed in weaving in factortes, and who, according to M1 Stannay : estmate, amounted, in 1832, to 75,055
"It would by no means furmsh a correct view, however, if the amount of labour sequired for the conversion of the gypen quantutes of cotton mto vara at the above mentroned perrods were tahen at a unform rate The vast mprovements made during late years in the machonery apphed to sponning bas caused such an economy in the application of labour, that not one half of the number of persons ts now requred for carrving forward the various manufacturing processes with a given weteht of cotion, that were employed for producing an equal resule thrty years ago This fact will be sufficiently illustrated by the following statement, taken from the books of Mr Thomas Houldsworth, an emenent cotton spintier of Manchester, and baid before the Commutue on Manufactures, Commerce, sc, which sat in 1833 This statement will further show that, notwithstanding the great reduction in the rate of wayes whinch has necessarily accompanied the introduction of mproied machmery the actual money earmings of the operative spinner are greater now than they were at the begnongo of the century and that his command of the necessaries of life places him ta a far more advantageous position than he then occupied

|  | 4t oris cimaed off byate Spabiter per wrek |  | Wazed por Week |  |  |  | Homst of hork per Weok | Prices Prom Gres ow clitio pital Records |  |  | Qnabtriea winch a Heed nert Fartiagy would purchase |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantit | arily | Cribs | Pierewra | Net |  |  | $\begin{array}{r} \text { rlon } \\ \text { per } 6 \text { n } \end{array}$ |  | Flab per lo | fis of Phogr | rom of Flesh |
|  | lus | Nos |  | ${ }^{4}$ d |  | $d$. | number | ${ }_{* 3} d$ |  | $d 4$ | number | number |
| 180: | 19 | 100 | 100 | 276 |  |  | 74 | ${ }^{33}$ |  | 6 to 7 | 117 | 64 |
|  | 9 | 200 |  | 810 |  |  | 74 |  |  | 6 to 7 | 124 | 73 |
| 1814 | 18 | 1 HO | 720 | 276 |  | 1 | 74 | 70 |  | 8 | 15 | 67 |
|  | 134 | 200 | 50 | 300 |  |  | 74 | 70 |  | 8 | 230 | 99 |
| 2039 | 22. | 180 | 510 | 210 | S3 |  | 69 | 76 |  | 6 | 219 | b |
|  | 19 | 400 | 693 | 826 | 42 | 9 | d |  | 0 | 6 | $2{ }^{\text {G7 }}$ | 85 |

'The sack of flour is taken at 280 lbs .
"The above is the result of an average of several men's work at the different pervods"

In 1833, the number of hours employed during the week was 69, instead of 74, which it had been in the former years But for this reduchon in the time of working, the nett earnings woald have been for No $180,36 s 1 d$, and for No $200,4 \bar{s} \mathrm{~s} 20 \mathrm{~d}$, and the quantuties of flowr and meat would have been for No $180,224 \mathrm{lbs}$ and 72 lbs , and for No $200,285 \mathrm{Hbs}$ and 91 lbs respectively

Mr Babbage, in his "Economy of Manufactures," gwes the following statement -
"A machue, called in the cotton manafacture a 'stretcher,' worked by one man, produced as follows -

| Y EA it 5 | Poundia of Cotton Spant | Roving thages pur beore | Rate of Earmang per bierel |
| :---: | :---: | :---: | :---: |
| tela |  | $1{ }_{1}^{4}$ | is d |
| 11511 | 1900 | $0{ }^{1}$ | 850 |
| 113 | 850 | 0 | $3110 \%$ |
| 1823 | 1600 | 0 d | 313 |

"The same man working at another stretcher, the roving a Iutie nner produced -

| Y $\mathrm{F} \boldsymbol{4} \mathrm{H} 5$ | Po tode or Cnstoo Spura | Roving Wages piar bcote | Rate of Earning Fer Weeh |
| :---: | :---: | :---: | :---: |
| 16.3 | 1000 | $\begin{array}{ll}5 & 4 \\ 0 & \\ 0\end{array}$ | 4. ${ }^{4}$ |
| 1524 | 1600 | 0 T | \% ${ }^{\text {a }}$ |
| 13\% | 100 | 0 9 | \$0 0 |
| 16932 | 18410 | 06 | 800 |

"In this inatavee, production has ertadualis nemeased, untul, at the end of twentytwo ycarb thrce tumes as much work is done as at the commencement, although the manual habor empluted remoms the same The weekly earangs of the workmen have not Euctusted vers much and appear on the whole to have ddranced but it would be imprudent to push too tar reasonings founded upion a angle instance

The produce of 130 spmulcs ot 'mule-yara spunmg, at different periods, was as fullons -

| 1 EARS | Hesks about fanty to the poutsid | $\begin{aligned} & \text { Wares } \\ & \text { per iln annd } \end{aligned}$ |
| :---: | :---: | :---: |
| $1 \mathrm{~W} \times$ | 0608 | ${ }_{1} 9$ |
| 171 | (1) | + 3 |
| 1412 | 10.60 | 1 A |

- The subyoned view of the state of weaving by hand and by power looms at Stockport, in the pears 1822 and 1832 is taken from an enumération of the machues contanet in siati-five factories, ana was collected for the purpoze of being given in evidence before a commitee of the House of Commons


Durag the period the number of hand-looms in employment dimmanhed five sencinths, whlst that of power-looms increased to more than five times its former amount The total number of workmen increased about one-third, but the amount of manufactured grouds (supposing each power loom to do ooly the work of three hand looms) was three and a hall tories as large as it was before

- In considerng this nerense of emplovment, it must be admited that the 2000 persons throw 4 out of work are not exactly of the same class as those called into employnucnt by the power-looms A had weaver mast possess bodily strength, which is not csatntial for a person attending a power loom, consequently women and young persons of bolh sexpe fiom fifteen to seventeen yerrs of age find employmeat in poweatoom licteries. This, however would be a very limited vew of the employment arising from the introduction of power-looms, the shill called into action in building the new factories, all constructing the new machnery in makug the steam engines to druve it, and in densing improvements in the structure of the looms, as well as io regulating the cetnomy of the ers, bhshment, is of a much lighes order than that whith it had issisted in superoedng Nor mins view of the subject must we omt the fact that, olthough hand-looras yould have neteased in number if those moved by steam had not been sevented, yet it is the cheapness of the article manufactured by power-loons whech has caused thas great exteasion of ther employment and that, by dimmosbing the price of on articie of commurce we alwass call moto addiomal activity the energy of those who produce others It appears that the number of havd looms in use in England and Touland in 1830 was about 240,000 nearly the same number existed in the year 1820, whereas the number of power looms whech, in 1830 , was 55000 , had, in 1820, been 14000 When it is consedered that each of those power-looms did as muctionork as thue worked by hand the incieased producing power was equal to that of 123,000 handloons Dunng the whole of thr perrod the wages and employment of hand loom weavers Ahte bean very precarious

In the cotton mill of Messrs Houldsworth's, in Glasgow, a spuner emplaged
on a mule of 336 spindles and spinning cotton 120 hanks to the pound, produced, in 1823, workng seventy-four and a half hours in the week, forty six pounds of yarn his nett weekly earnings for which amounted to 26 s $7 d$ In 1833, the rate of wages having in the meanwhile been reduced thirteen and a thrd per cent, and the time of working having been lessened to sixty mue hours, the spmner was enabled, by the greater perfection of the machnery, to produce, on a mule of the same number of spindles, fifty two and a balf pounds of yarn of the same fineness, and his nett weekly earnings were advanced to 29 s 10 d

But a much more considerable economy than thas has been produced in cotton mulls by ancreasing the size of the mules Mr Cowell gives the following example of the effect of this improvement, as regards the cost of the yam and the earnings of the spinner -
"In the year 1833, in two fine spining mills at Manchester, while I was in the tewn, a spiner could produce sixteen pounds of yorn of the fineness of 200 hanks to the pound, from mules of the productive ferthhy of 300 to 324 , working then siaty-nine hours, and the quantity that he turned off in sixty-nine hours more frequently exceeded suxteen pourds than fell short of it
"These very mules were being replaced by others of double power white I was at Manchester Let us examine the effect on the spinners carmings in the early part of last year he produced sixteen pounds of yarn of No 200 , from mules of the power of 300 to 324 spmoles Consultung the list of prices, I perceive that in May he was pard 3 s . d a pound, this gives 54 s for his gross receipts, out of which he had to pay (I will put the amount high) I\$s for assistants This leaves hitm with 41 s earninge, His mules have their productive fertulty doubled, they are converted mo mules of the power of 648 , he is now paid $2 s 5 d$ a pound instead of $3 s 6 d$, but be produces thrty-two pounds of yarn of the fineness of 200 hanks to the pound in sixty-mine hours, his pross receipts are immediately rassed to 77s 4d I will now admit that he requires fire assistants to help him, and averaging their cost at 58 a prece, therr labour will cost him $25 s$ and to avond all cavi, I wall add 28 extra then deducting $27 s$ from bas gross recepts there remains a sum of $50 s 4 d$ for lis nett earnings for sixty nane hours' work instead of $41 s$, anincrease of moze than twenty per cent, while the cost of the yarn is reduced $13 d$ per pound "

## Mr Porter remarks, -

"An effect sueb as has just been described can only be produced whie the trade is in a course of rapid extension If the productive power of the machines were doubled whthout a corresponding increase in the demand, it is clear that the operatue spinners could not receive a greater amount of weekly earnngg, but that, on the contrary manv of them would be thrown out of work, and a conpetaton for employment would thence arise, which must ocension a reduction in their actual recepts Considered in thas point of view, the prosperity of this branch of national industry becomes a subject of the greatest importance-an mportance far beyond all calculation of mere shillongs and peace The tendency of all improvements in the various processes of the colton manufacture is the abridgment of human labour, but hatherto such has been the gigantic progress of the trade, as to give full employment to the bands who, in a less prosperous state of things, would have been thrown out of work Nor 15 this all The assastants of the spunners, who, from their occupation in joining the threads broken in the spanang, are called paccers, and who are much mare numerous than the spinners themselves are, while thus employed, qualifying themselves to become spinners when they grow up Hitherto the demand for workmen of that kind has been suffictently great to absorb all who have thus been qualified, and to cause them to receive, as spmners, adequate and even hberal wages Psecers are generally employed in the proportion of four to one
spanner, but one of these four is generally a girl, who does not in after life become a spanmer but is transfered to some other department of the mall It is further probable that of the three boi one mos cease to rork on a tactory, but eyen then the umber of candidates for emplovment as apmers will be continually doubled in the course of a few rears and it we had no other means for ascertammer the progressive extension of the manufacture the fact of the wrtanual absorption of these frech hands would proye bow great ihat exfenston must be-thit it must have continued with a constantly accelerated specd in order not to lowar the earoings of the operative apinners, whose ranks are thus ifiercised in a peomtrical ratio
"Provided nothog thall oceur to prevent the cotton manufacture of thes country from developtog itself a the same extraordinary manner as it has done durng the lass Ifirty ye 7 Fs , the new cansidftes for employment will of course recelve the same encoa"fement as those have experienced who have preceded them"
Stathulft of the Number of Poner Looms used in Tactornes m the United hangdom, it the end of the Year 1835 , chistingushing Counties, and the Branch of Manufacture in whels the same are used


 the It. trach garters and ti the

Cotton Prunting -Anderson, in his "History of Commerce," states that cotton-printing was first practised in London in 1676 The first cotton-printer in England is gald to have been a Frenchman, whose print ground was at Ruch mond, on the banks of the Thanes Owng to the interference of Rarliament, first by the imposition of heavy duties, and afterwards by more direct restrictions, the trade was destroyed in 1720 m order to encourage the salk and woollen manufactures The restriction against wearing printed fabrics, of which cotton formed a part, was repealed in 1736, and it was computed that, in 1750, as many as 50,000 pleces of goods, made of linen-warp and cotton-weft, were printed in England In about fifteen years after, phnting woven fabrics was introduced unto Lancashire "The excise duty mposed upon printed cottons, up to the year 1831, when the duty was wholly repeaied, affords the followng results -

|  | Yards |
| :--- | ---: |
| The quantity printed in 1796 was | 20621797 |
| In 1800 ut had macreased to | 32,869729 |
| In 1814 it had further increased to | 124613472 |
| And in 2890 it had resched to | 347,400299 |

being more than ten times the quantity printed at the beginning of the centurr, while, on the other hand, it is less by $55,971,101$ yards than the quantity eaported in 1844 The quantity printed in 1830, after providing 199,799,466 yards for exportation, left $147,650,833$ yards for use at home
"The substitution of metallic cyhnders, on which the patterns are engraved, in place of wooden blocks, was first practised about 1785, and at once effected a great saving The process of engraving the enture surface of these large cylinders was, however, a very expensive operation, it was consequently a more umportant improvement when the system was introduced of engranng the pattern upon a small steel cy hader, and thence transferring it by pressure, first to softened steel, and then, this beng bardened, to copper cylunders, in the manner which has since been used for multuplying plates used for prutug banknotes By this means the engraved patterns can be transferred to alowost an indefinte number of cyhnders at a trifing expense The small coluder apon which the engraving is first sumh is called the det, the second cyluder to wheh the pattern is transferred in relief is called the mill This, when hardened, will give the required ropression to a great number of cylinders made of the softer metal, and as the de can likewse be made to give up its pattern to several mulls, a sufficient number of cyhndets can always be produced from one engraving
"The infroduction of this great improvement took place about 1808, and has had a powerful effiect in estending the trade of the country At this time,
cylmders thus made and engraved, after the novelty of the pattern as gone by in England, are exported to various parts of Europe and America
"At first, ouly one colour could be maparted to the pattern on the cyhnder, and if more than one coloun were required, it was necessary to resort to a different process, and to print the seseral colours by different operations This disadvantage was at length partially got over, so that, five , ears ago, printers were enabled to impart two, and even three, colours by means of cyhnders, and it is now common to print five colours at one operation The vast improvement Whach has latterly been produced in the style and execution of printed cotton goods is matter of such common observation, that it cannot be necessary to enlarge upon it here, but for it, the cotton manufacture could not, in thas branch, have stood aganst the powerful nvalry to which it has of late been subjected by our silk manufacture This mprovement has been assisted by the discovery of a method for mparting to cutton fabrics the bnllant red colour of cochmeal, whach was previously applied to woollens only This is effected by simply passing a current of steam on to cloth to which the cochineal-dye has prevously been apphed, that process of fixing the colour"-Ponter's Progress of the Nation

Cciton Hosecry -Mr Felkin, of Notingham, has with great care given us many interesting facts relative to this very important branch of industry

The chief seats of the hosiery manufacture are the counties of Derby, Nottingham, and Leicester, in the list named of which nearly all the frames in which wool is employed are to be found, whale Nottingham contans the largest number of franses for the production of cotton hosiery The use of silk in this branch of manufacture is almost wholly confined to Derby and Nottungham

Hichner estumated tinat in 1812 there were 29,590 stoching frames at work in all the brauchus Churty years before that tume the number had been estimated at 20,000 If we are to judge from the localities assigned to the frames in 1812, it would appear that rather more than one-third were employed in producing cotton hose, and that about one-half were used for woollen goods, but no very accurate estimate of the proportions can be formed from the locality of the machanes In 1833, a meeting was held of delegates from the frome-work knittis, when a resolution was formed for dividing the seat of the hosicy manufacture into districts, with the view of obtatang, among other thungs, exact detals of the number and description of frames, the amount of labour employed in them, and such further partaculars as mught enable the norkmen to co-operate for the more effectual protection and advancement of thicit intucsts The resolution thas formed was not, indeed, carried into effect in the mannet nor with the objects proposed, but was of advantage, by ts having bucn the means of draning the attention of Mr Felhin to the subject, who drew up an estimate of the extent of the manufacture in its various branches,
which was believed to present a sufficiently accurate approvimation to the con dition of the trade at that time to answer all practical purposes

In 1812, Mr Blackner estmated 29,590 frames as the total of what were use d in the United Kingdom Since then, many frames have been widened so as to make two stockinge at once The quantsty of cotton hostery goods made in 1833 was estimated by Mr Felkin to have mereased more than fify per cent in the preceding twenty years The use of cotton stockings lias, during that thme, been superseding those of woollen to great extent among the female port of the population

Stockings, weaving or kntting, is carned on in the dwellings of the workmen, some of whom possess frames, which are their own, but the greater part work on frames which belong to the master-manufacturers, by whom the worknen are employed, and who are pard by the weaver a rent varying from forty shilhings to five pounds per annum

Mi Felkin's statement, as extracted by Mr Porter, gres the fullowing results -
 Linrraw wornted 75 wide wernied 150 and sift 30 Thery are-.

| Frames. | Roployedin Manufacturiog | Nymber Manufac. 4 firtil | Gonmamp | Materat | Fislue | $\begin{aligned} & \text { Wazen for } \\ & \text { Waliag } \end{aligned}$ | Firanding | Tust 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| J0,300 | Frationed coteon hase | domer 4xil 0 09 | Jbs | Cotton yam | ${ }_{73}{ }^{\text {F }}$ | 28151000 | ${ }_{34}^{8}$ | ${ }_{39}{ }^{\text {e }}$ |
| 4,0040 | Cutup \&c | 1200000 | 2, 420000 | Cothon jara | 17000 | 281500 | 93.31 | 5801010 |
| 4.500 | Fasbinemd wrested | fleno | $\bigcirc 940000$ | Worsted | 234000 | 215 cout | 41 +10) |  |
| 1001 | Cut up, ${ }^{\text {cese }}$ | soct chat | 400900 | \% | 40 roo |  | 1019 | $89(x)$ |
| 4.500 | Angula | 93000 | 37.500 | ${ }_{\sim}$ | 45009 | 4100 | 119 ${ }^{\text {ang }}$ | 164049 |
| 1900 | Lambaswocl | 135000 | 639 506 |  | 80000 | 5.00 | 18 cmak | 14.100 |
| \$000 | SPIt | 00000 | 10.600 | Stic | 129,009 | 10s mot | 13000 | 211600 |
| \$3000 |  | 3,510,010 | 5138000 |  | 8140 | 94.8000 | 24800 | 1 的 |







There are employed in the vamous procenves as fillawe viz i-
In cotcon-spingrag doubling \&

 Turax perwase employop $\overline{75,000}$
The enpital aroploged in tho varioun bradechen of the tracte may be thaf estimated tating the moctuday ond frathex
 Bveragy of agverad yeart:-


Table exlubiting Number of Hogery Frames in the Unted Kingdom, and Average Quantity and Debeription prodaced.


Bobbunet MAnufacture - This ungenous and most important branch of industry has, during the present centary, nisen from almost nothing to a branch of industry which, according to the memorial presented to the Treasury by the prneipal manufacturers, afforded, in 1834, employment to from 150,000 to 200,000 persons, to whom the annual average wages, amounting to about 2,500,000l has been pard

Bobbinnet, or net-work lace, by means of machnery, is sadd not to bave succeeded untal 1809, when a rude machune, very inferior to the improved machnery now employed, was protected by a patent, by which its propmetors, during its continuance, accumulated a large fortune The machinery nowin use, with equal manual labour, yelds twelve tumes the quantsty of net whech was prevously made at an unprecedented dimmation of cost, that is to say, a quantity for 2 s 6 d which, during the patent, was sold for $5 l$

Scatietices of the Bobbinnet Trade in 1836, by Mr Felkin

| Capital Braployed in Splaning and Donbling the Yarn | Value | Caputal Eraployed th Boblinnet inaktug | Value |
| :---: | :---: | :---: | :---: |
|  | d | omght forme | $760800$ |
| ftactories -74000 spianiag 296,700 doubling upintiea | 715,000 | Fixed capital in ficctortus principaliy for power machunet | 8500 |
| Fonting capatal in eplaperts add doublert atook and mecessacy suudrice | 200000 | Peted capital in power machlates ateragang 11 quaviots wide | 170090 |
|  | 915,009 | Find crpizal is | 267000 |
| Dedact one sixth employed fer forenguthotion |  | Ffoajng capital to atock ons hrnd prover-awters | 150000 |
| pet makilig | 155,000 | band-pwatr | 230000 |
| Total capital amployed in spinning nod doubling for Bnging botusionet trade | 760000 | Capstal in emituridering proparing and atock | $\begin{aligned} & 608000 \\ & 250000 \end{aligned}$ |
|  |  | Total capital employedin the trade | 1939000 |

The Value of the materials used was as follows -

| COTTGN YANN | Manks | Value | Valam | Coods | Vatio |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1ba 6 (10) | $\begin{gathered} \text { mumber } \\ 1: 0 \end{gathered}$ | ${ }_{7} 7$ | 8250 | Brought forwardNott valut of sam | $\underset{620}{f}$ |
| 10000 | 140 | 40 | 1000 | Yaine uf oilia diaced | 401600 |
| 73 0x\% | 1 100 | 50 | 83.18 | Wages interest wour \& tear tac. |  |
|  | 180 | 96 | 40375 |  |  |
| OS Onin | 170 | 107 | \$0 270 | Value of robgh goods | 1,202,800 |
| 350000 | 180 | 12.0 | 210000 | 200,000 preces grased 3d | ${ }^{2} 400$ |
| 500000 | 180 | 140 | 175900 | 3000000 bletubud 104 | \% 09 |
| +200 000000 | 200 810 | 18 | 176006 | 300,000 dreased la $9 d$ | 25000 |
| 0060 | 220 | 213 | 0 363 | 200000 pitcor vendo-ntst fruisbed | 810000 |
| $1100,0 \times 3$ |  | ceat di | $\begin{aligned} & 37570 \\ & \text { NSI } 150 \end{aligned}$ |  | $\begin{aligned} & 15106 \\ & 15000 \\ & \hline \end{aligned}$ |
| Catrind forward | Nett nalte of yarn |  | 620.010 |  | 13540 |

The Number of Machnes, esclusive of 165 not at work, was 3,04 , of the following Descriptons -

| M $\triangle$ CHINES | Rotary | Clroular | Levor | Travers Warp | Praher Crecian | Torwi |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Finita | $\begin{gathered} \text { Dughbur } \\ 19.13 \end{gathered}$ | $\begin{aligned} & \text { number } \\ & 119 \end{aligned}$ | $\begin{gathered} \text { namber } \\ 16 \end{gathered}$ | number | numbior | $\begin{gathered} \text { aumber } \\ 1425 \end{gathered}$ |
| Quilling | 247 | 116 | 701 |  |  | 1)24 |
| Paney | 45 | 185 | 448 | 159 | 105 | 9093 |
| TOTAL | 1155 | 20 | 1223 | 153 | 145 | 354 |

Tere Purts of the Kingdom in which these Machenes were employed，are－

| P It $\mathrm{H}^{\text {c }}$ | Pain． | Quilliaga | Pancy | Tortil | Quantity of Yoro veud． |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Notitiginamutre | ${ }_{\text {chater }}$ | number 10 优 | nambin jis | bumber IluO | 1640， |
| Lece sletshate | 207 | 37 | 30 | 343 | 100000 |
| Derbyshite | 192 | 49 | 14 | 235 | 100000 |
| West of Englana | 654 | 10 | 103 | 787 | 890，000 |
| Totas | 1465 | 1122 | 903 | $3 \times 45$ | 1 ［00 dom |

TEEE Qaantity and Value of the Rough Goods prodaced by the dufferent kands of Mnchines were－

| MaCHIN絡 | Quantsty | Falue |  | Qusatity | Fatue |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Potary Leris Circular |  | $\begin{aligned} & f \\ & 6 r^{\prime} 285 \\ & 476949 \\ & 14,964 \end{aligned}$ | Bronght forward <br> Posher Greerima <br> Travest Warp | $\begin{gathered} \text { nguare yards } \\ 36782,925 \\ 811650 \\ 385188 \end{gathered}$ | $\begin{gathered} \pm \\ 1281079 \\ 41654 \\ 34198 \end{gathered}$ |
| Caxried forward |  | 12910＊8 | Total | 87，919063 | 1，3\％ 56 |

Tre Number of Machine Owners was then 887，of whona

|  |  |
| :---: | :---: |

Tres Power of the different kinds of Machunes as to the Wrdth of the Bobbunnet produced，was－

| Widith stated in Quarten | E－atary | Carcular | Lever | Panher Graclan | Travert Warp | Tosa ${ }_{\text {L }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 Quartior | namber | nutuber | namber | number | number | number |
| 5 | 告 | $\theta$ | 4 | 24 | 3 | 81 |
| $6 \omega$ | 50 | 57 | 110 | 61 | 117 | 360 |
| 7 － | 19 | 37 | 148 | 38 | 29 | 26t |
| 8 | $4{ }^{19}$ | 240 | 331 | 18 | 3 | 1084 |
| 0 | 19 | 8 | 118 | 8 | 1 | ［65 |
| 10 | 813 | 5 | 199 | 16 |  | 546 |
| 11 | 11 | 3 | 122 | 7 |  | 173 |
| 48 | 629 | 4 | 18.4 | 6 |  | 510 |
| 13 | 17 |  | 12 |  |  | 99 |
| 14 | 4 |  | 8 |  |  | 9 |
| 15 | 1 |  | 2 |  |  | 3 |
| 16 | 22 |  | \％ |  |  | 81 |
| Tofac | ［565 | 420 | 1245 | 155 | 152 | 36.47 |

＂The wages of persons emploged in the dufferent branches of the manufacture vaned according to the kind of work produced The nett earnings of

＂Successive improvements in the arrangements of the machines had caused Chose first constricted－the Travers＇warp machines－to go out of use，and a

$$
3 \times 2
$$

great number of them, which had cost 3007 each, were sold and broken up for the value of the ron which they contaned Very recently it has been found, that by a slight alteration these machines may be adapted to the production of fancy nets, such of them as remamed have been thus modified at a small expense, and employed for the praduction of fabrics of contmually-mereasing beauty and value"

Mr Felkin furmshed Mr Porter with the following particulars respecting the position wheh this manufacture occupied in 1844 ..
"The number of milis for spinning and doublog fine yarns is greatly increasod gince 1836, but the mereased product is chiefly employed for warps in Bradford, Coventry, and Spitalields, for the production of mixed goods The captal emploved in producing yarns for English lace is about the same as in 1836-

"The only improvement introduced since 1833 in the machnery for making plan nets has consisted in a coatrivance for obtaingg greater speed in the working Several patents have been taken out for unprovements an the style of the goods produced, and for modea of adaptrag the jacquard frame The man object sought by the patentees has been the introduction of patterns in close imitation of pillow lace, and especially of Netherland lace, and therr success in this object has been very great.
"The cheapness of these beautful fabrics is calculated to excite astomishment A yard in length of 12 quarter wide plan net may now be bought for one shalling a pard of platt net, of the same width, is worth from 20s to $5 l$ The machane employed to make the former wouid cost to its construction 250l., white the platt aet machine would cost from 5002 to $1000 L$. Faney goods of all qualuies, from one farthing to $20 s$ per yard, are at all tumes being made, and often in the bame estabhshment
"In 1837 the fancy productions of Nottingham were so far out of gavour with the public, that the embroiderera were reduced to one thurd of ther former number, acd those employed were earnug miserable wages, but dunng the last three or four years so great has been the mprovernent in the taste and style of those goods, that the demand for them has been contmually increasing at rising prices, and the wages of the workpeople have tisen proportonally This result has primepally been owrig to the appleation of the gacquard machine to this braach of manufacture, a result which has not been accomplaghed without great difficulty
"The toarp lace manufacture is usually carried on separately from the bobbinuet branch The machunery engaged in it is cluefic employed by fifteen forms in the town of Nottingham and the neighbourhood
"The varp-machune, which is a very beautiful modification of the stocking frame, is used for the production of articles of the most varied texture, from the stoutest cloth to the hightest gossamer net-work There are ether plain or fanev goods for the latter bind the jaequard machine ts connected with it, and vely splendid patterns are thus produced At this tume (September, 1845) 800 warp Irames are employed in makagg lace gooda, 300 being worked with stlk, and 500 with cotion yarn Tbese frames
would cost to their construction about $100,000 \mathrm{l}$ They give employment to altogether about 4500 hands, viz -

|  | at 408 pet pect |
| :---: | :---: |
| 100 machipg bumds | 30 |
| 409) unto | 25 |
| (100) ditto | 40 |
| 5013 ditto | 15 |
| 1000 fermaien mendiag puttag up act | 10 |
|  | A |
| zos chaldren wandiag | 3 |
|  |  |

"The sum paid in wages during 1844 was about $165,000 \mathrm{t}$. The materals used in that year were $40,000 \mathrm{lbs}$ of raw sith, value 30000 l , and $600,000 \mathrm{lbs}$ of raw cotton, value 250001 The finished goods were of the value of $350,000 l$, viz -cotton goods, $200,000 l$, and stik goods, $150,000 l$
"The 3200 machines were, in 1844, employed and produced as follows -

"Among the machness employed in making fancy goods there were about 120 platt machines und 200 Mechlin machines to which the jaequard frame was attached

- The persons emploved in making, fimshing, \&e, the above, and ther rates of wages, were as follows -

"The prodnce of the manufacture passes through the hands of about 100 firms, all of whom, except two, are resideat in Nottingham


"For a small part of the goods made cotton is used, spun 10to 460 havks to the poond weight, the price of which is $12 l 166$ per $l \mathrm{lb}$


"About three-fifths of the grods made are consumed withen the hengdom"


## STATEMENTS RELATIV TO THE VALUE OF THE COTTON MA OFACTIGES OF THE UNITED KINGDOM

Tee Parlamentary returns, Mr Porter s laborioas investigations, the statements which Mr M•Colloch whth the greatest attention to accuracy, Burn's Glance, and Mr Bannatyne's Estumate, afford the followng summary of the value of Bratish cotton manufactures, prices, Bue Mr Dugald Bannatyne, in the supplement to the "Encyclopedia Britannica," and Mr M‘Culloch, in the second edition of his 'Dictionary of Commerce," bave each estmated the value of goods annually manufactured at above $30,000,000 \mathrm{l}, \mathrm{Mr} \mathrm{Mr}^{\circ} \mathrm{Cull}{ }_{\mathrm{och}}$ estimates the capital employed as follows -


The value of the goods annually produced is by Mr M•Culloch estamated as follows -

Raw material $20,000,000$ lbs at for por th
Wages of spo con wapete epinpers blogem
 oftr of the misnulacturern, wages of anperintendence moms to purchaze the materials of
machinery eodift ac 18000 way

6,0000007
34000000
Mr M'Culloch (See "Commercial Dictionary," 1844) estimates the capital employed in the manufacture and of the value of the goods anmually made in the following oxder, $\mathrm{Viz}_{3}$ -


Mr Bannes duffers 10 his details, but corroborates the result given by Mr Bannatyne and $M r$ M'Culloch -

I-mitand Talue of the Beitish Cotton Manufacture an 1833
 Powar moving the factornes atcam 19 mon horeve power

PRICES OF COTTON AND COTTOV MANUFACTCRES
Account of the Pices of good Upland or, as it is frequently called bowed Georgis Cotton, in the Liverpool Market, from 1806 to 1815 , inclusive


Parce of all Descriptions of Cotton Wool at Liverpool, during the last Week of the Years 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, and 1846




The variations in price of cotton-yam of various degrees of fineness in each year, from 1833 to 1844 have been as follows - -

| YBAIt | Yard No 80 Price |  | Yatic Ao 100. Frice |  | Yarn No 170 Price per 16 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cotton | Yarn | Cottan | Yama | Coteon | Fartit |
| Decembay | ${ }_{1}$ | ${ }^{6}$ | ${ }^{6}$ | $4{ }^{4}$ | $d$ | ${ }_{5} \mathrm{~d}$ |
|  | 䃀 | 129 |  | ${ }^{8} 8$ | 19 | 7 70 |
| 1835 | 0 | $1{ }^{1}$ | ${ }_{7} 17$ | ${ }^{3}$ | 28 | 710 |
| 1\%05 | 10 | $1{ }^{1}$ | 20 | 86 | 38 | 88 |
| 18.57 | \% | 12 | 17 | ${ }^{6} 6$ | 81 | 10.4 |
| 1838 | 0 | 14 | 16 | ${ }^{1} 0$ | 29 | 56 |
| Jeas | 64 | 11 | 14 | 11 | 97 | 84 |
| 1840 |  | 104 | 13 | 5 | 11 | 17 |
| IRHE | 5 | 0 | 19 | 30 | 18 | ${ }^{7} 1$ |
| 1642 | 0 | 特 | 10 | 7.9 | 17 | 68 |
| 1813 | 4 | 9 | 11 | 211 | 17 | 60 |
| 1384 | 4 | 91 | 11 | 211 | 17 | 0.9 |

This subject has had further light thrown upon it by the inguries of the Factory Commissroners, from whose report the following tables have been extracted -

Average Pruce of Cotton, compared with Twist, at diferent Periods dumg the present Century


Average Price of Cotton，\＆re－－（contimesed．）

|  |  |  | （7 | I | 0 D | 8 | Cotton par ib | Twist Solll per | Avarage Num | Dufereuce |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | Juty | 1821 | $t 0$ | Dea | 1821 |  | 4 | 19.15 | $2{ }^{\text {d }} 33$ | $4{ }_{4}^{2}$ |
|  | Dec | 1 cal | $\cdots$ | July | 1822 |  | 9 M | 1977 | 231 | 1004 |
|  | July | 1822 |  | Dee | 1823 |  | 834 | 19 17 | y， | 198 |
|  | Deo | 1＊28 |  | Joly | 1E63 |  | 78 | 1953 | 24． | 1143 |
|  | $J$ uly | 1 n 33 |  | D．c | 18.3 |  | 8 2 | 1969 | 2534 | 1135 |
|  | Dec | 11823 | ＊J | July | 1 N 24 |  | 881 | 19.41 | 239 | $10 \%$ |
|  | 3 aiy | 1834 |  | Due | 18\％4 |  | $\mathrm{E}^{7} 76$ | 10 co | 201 | 10131 |
|  | ${ }^{\text {Dec }}$ | 1824 |  | Suly | 3815 |  | 14.08 | 20r31 | 462 491 | 405 0.05 |
|  | ${ }_{\text {July }}$ | 18t |  | Dec |  |  | 1308 368 | 10011 | ${ }_{29} 8_{7} \frac{1}{8}$ | \％ 89 |
|  | D ${ }^{\text {Jut }}$ | 1724 | ， | Dity | 1420 1526 |  | 36 682 | 105 1017 | $27^{-3}$ | 87 835 |
|  | Dect | 12.6 | ＊ | Jaly | 1827 |  | 682 605 | 1917 | 8005 |  |
|  | July | 1427 |  | 136 | 1827 |  | 734 | 1175 | 300 | 748 |
|  | De | 147 |  | Jut ${ }^{\text {d }}$ | $1{ }^{12} 28$ |  | 5.26 | 13 | 724 | 8.74 |
|  | 5 y 5 | 162a |  | Der | （1） $\boldsymbol{H}$ |  | 664 | 133 | 24．33 | 606 |
|  | 31） | 14.3 |  | $\mathrm{J}_{\text {aly }}$ | 1＊13 |  | 613 | 1890 | $2 \times 23$ | 073 |
|  | Juls | 1820 |  | Des | 1512 |  | 634 | 1313 | 21.9 | － 09 |
|  |  | 1829 |  | July | 18.30 |  | 701 | 13.26 | 4785 | 627 |
|  | ${ }^{3} 15$ | 1850 |  | He | 16.30 |  | 5 ct | 1278 | 2677 | 690 |
|  | $\mathrm{L}_{6}$ ， | 1－39 |  | Juty | 121 |  | 6 cs | 1288 | 28.48 | 617 |
|  | Jaly | 1831 |  | buc | $\mathrm{SHOS}_{81}$ |  | 089 | 1237 | $2{ }^{2} 40$ | 58 |
| ＂ | Duc | 1831 |  | July | ${ }_{\text {1532 }}$ |  | $\begin{array}{r}697 \\ \hline 24\end{array}$ | 1270 | 24.43 458 | 676 837 |

Conpseative Cost of Cotton Yarn in 1812 and 1830

| lianks per day perspinde |  |  | Price of entton aud watk per lo |  | Labour per Ib |  | Cont per lb |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mutabe | 1814 | 1830 | 1812 |  | 1812 | 1530 | 1812 | 1830 |
| （1） | 2 | 978 | ${ }_{3} 16$ | $\begin{array}{ll}5 & 4 \\ 0 & 7\end{array}$ | 18 | ${ }_{10}{ }^{\text {d }}$ \％ | 36 | $1{ }^{1}$ d |
| 6 | 15 | 26 | 20 | 019 | 16 | 10 | 36 | 1304 |
| 80 | 11 | 2 | 22 | 0111 | 28 | 17 | 4. | 46 |
| 199 | 14 | 13 | 24 | 11 | 910 | 2 2f | ${ }_{6} 2$ | $3{ }^{3}$ |
| 10 | 125 | 163 | 40 | $1+$ | 30 | 28 | 60 |  |
| 10 | ， | 1 ， 4 | 210 | 18 | 65 | 411 | 94 | 6 T |
| （4） | 35 | 90 | 31 | 30 | 168 | 116 | $20 \%$ |  |
| 30 | $s$ | 6 |  | 88 | 810 | 240 | 850 | 182 |

Cost and selling Price of one Piece of Calico，from 1814 to 1833

| YEARS | $\left\{\begin{array}{c} \text { Prise of wane } \\ \text { Plespo in Wranp } \end{array}\right.$ | Prece of ome Pjece in Wiof | Expense of uising se |  | Avcrage proces sold for in Nan chastef dirough the yuar |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1924 | $\begin{array}{ll}1 & d \\ 9 & 0\end{array}$ | 5 d ${ }^{\text {d }}$ | ${ }_{3}^{\text {d }}$ |  | ${ }_{1}^{4}{ }_{4}$ |
| 1815 | $7{ }^{9}$ | ${ }^{7} \mathrm{C}$ | B | 1－18 10. | $\begin{array}{llll}1 & 4 & \\ 0 & 19 & 68\end{array}$ |
| 1816 | 70 | 5 61 |  | 016 | 0 It ${ }^{0}$ |
| 181 | 5 6 | 59 |  | $01^{3} 3$ | 0 le 11 |
| \％ 1\％$^{\text {a }}$ | 69 | 5 4t |  | 010 | 016 樶 |
| 1819 | 5 3 | 12 |  | 0 19 0t | － 10 O |
| 12341 | 4 2 | 3 4 |  | 01511 | 0 In 11 |
| 151 | 3 9 9 | 96 | 5 | 09101 | － 940 |
| 159 | 3 |  |  | 0811 | 0 O 3 |
| 17 | 8 崖 | $3{ }^{2}$ |  | 08 发 | 0 O 11 |
| 120．4 | $\begin{array}{ll}3 & 4 \\ 8 & 4\end{array}$ |  |  | $\begin{array}{llll}0 & 8 & 5 \\ 0 & 8 & 0\end{array}$ | 0 0 8 8 |
| ！ | $\begin{array}{ll}3 & 4 \\ 2\end{array}$ | ${ }_{2}{ }_{10}{ }^{2}$ |  | $\begin{array}{llll}0 & 5 & 14 \\ 0 & 6 & 8\end{array}$ | 0 4  <br> 0 0  <br> 0 0  |
| $1{ }^{16} 7$ | 964 | $1{ }^{1}$ |  | $(1) 63$ | $00_{0} 0$ |
| 1.4 | 28 | － 9 |  | 0 － 06 | 060 |
| $\mathrm{in}^{4}$ | 8 \％ | 19 |  | 0 － 11 | 0 ¢ ${ }^{6}$ |
|  | 19 | 110 |  | 0 0 06 | 0 0 9 |
| ＊＊ 1 | 8 解 | 1 04 |  | 0 O of | 0624 |
| 18， | 23 | 19 |  | 0 － 5 | 0 ） |
| 48.3 | 33 | 1 P |  | 0.5101 | 06 |

The dmmoution of value in the twist appears to amount to 59 per cent, and in the cloth to 68 per cent.

The variations in the value of cotton goods and yarn, so far as the same can be inferred from the average vaiue of the quantities exported in each year, from 1830 to 1844, have been as follows

Averace Value par Yard of Whate or Plam, and of Printed or Dyed Cotion Manufactures, and per Pound Weight of Twist or Cotton Yarn exported from the Uuted Kingdon, in erch Year, from 1830 to 1844

| YEARS | White or Plaln Gools | Printed or Deped Gopds | Twint or Yern | YEARS | Whate or Plajn Goods: | Prizted ar Dyod Goods | Two ot or Yara |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1830 | $6_{6}^{4} 43$ | 9878 | $15^{4} 516$ | 1838 | ${ }_{4}^{4} 817$ | ${ }^{\text {d }}$ (3) | $8{ }^{4} 504$ |
| 1812 | 6 fab | 8 033 | 14048 | tess | 4397 | 0041 | 15 578 |
| $1{ }^{3}$ | 5415 | 6728 | 64859 | 1efo | 4323 | 5765 | $113 \%$ |
| 1838 | 6448 | 6691 | 15 518 | 1841 | 4103 | 8656 | 1415 |
| 1834 | ${ }^{5} 506$ | 5733 | 10338 | 1048 | 3 cmL | 5061 | 13 568 |
| $1896{ }^{\text {c- }}$ | 5232 | 1004 | 16 450 | 1598 | ${ }_{5} 4281$ | 4315 | 13854 |
| 1830 | 5007 | 7048 | 10656 | 1641 | 8487 | 4917 | la 107 |
| 1387 | 5104 | 6501 | 16187 |  |  |  |  |

The following statement, whech is taken from Mr Dugald Bannatynes paper on the cotton manufactare inserted in the "Encyclopxeda Britanmica", places in a very stmking light the reduction that has been effected by machinery in the cost of spinning

Prices of Cotton Yam, 100 Hanks to the lb , in the following Years

| YgARS | Per P | und. |  | Per | ound | YEAES | Per Parum | YSARS | Pit Pound |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1780 | * | d | 1753 |  |  | 1800 | ${ }_{9}^{8} 4$ | 2806 | 43 |
| 1787 | 33 | 0 | $1{ }^{2} 91$ | 15 | 1 | itor | 59 | J 80 | (5) 9 |
| 3789 | 35 | 0 | 17959 | 19 | 0 | 1802 | 8 8 | Lfter mint | fuctuations |
| 1789 | 36 | 0 | 17316 | 19 | 0 | 1803 | 94 |  |  |
| 1700 | 30 | 0 | 179 | 19 | \# | 1801 | 710 | 1898) | 39 |
| 1791 | 19 | 9 | 1756t | 9 | 10 | 1805 | 710 | 1232 | 711 |
| 1798 | 18 | 1 | 1799 | 10 | $1 t$ |  |  |  |  |

- Sperir from Bourbon matron
t Spun foom Set laland eartera.
Statement, showng the Average Pricos of Mnnufactured Goods Exported m 19,16, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, and 1845


Prices of Mule and Water Twist in Market, 1840 to 1846, melusive

| Commen seconde |  |  |  |  |  |  |  | Best secondil |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1810 1 | 1841 | 1842 | 4843 | 1814 | 18 | 1945 | 1846 | 18.46 | $18 t_{1}$ | 1852 | 184: | 18.4 | 1 1945 | 1846 |
| 4 <br> 9 <br> 1 <br> 104 <br> 104 <br> 34 <br> 14 <br> 104 <br> 104 <br> 181 | 4 4 04 43 98 11 124 12 13 |  |  |  |  |  |  | $d$ 92 9 1 13 136 16 102 34 | 1 1 14 108 11 18 18 18 208 | $d$ 71 $8 d$ 36 102 14 15 17 19 |  |  |  |  |
| W A T E A T W |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No | Common Secrinds |  |  |  |  |  |  | Brast Segomile |  |  |  |  |  |  |
|  | 18.6 | 184! | 1842 | 12:3 | 19.4 | 18 | 1816 | 14.80 | 1841 | 184\% | 1848 | 1814 | 3813 | 1646 |
| $\left.\begin{array}{c} 6 \\ 9 \\ 10 \\ 12 \\ 60 \end{array}\right\}$ | $d$ | 4 | 4 | ${ }_{4}$ | $d$ | d | d. | 4 | $d$ | d | $d$ | 4 | ${ }^{\text {d }}$ | $d$ |
|  | 84 | 73 | 6 | 61 | 08 | 6 | 8 | 0 | 84 | $\ddagger$ | 2 | 71 | 74 | 4 |
| $\begin{aligned} & 120 \\ & 20 \\ & 30 \\ & 40 \end{aligned}$ | 19 | 84 | 74 | 8 ${ }^{8}$ | cr |  | $\underset{168}{16}$ | 101 13 104 | 191 | ${ }_{12}^{9} 184$ | +0\% | 18 18 138 | 818 | 104 11 154 |
| $\begin{aligned} & 81 \\ & 00 \\ & 0 \\ & 80 \end{aligned}$ |  |  |  |  |  | , |  |  |  |  |  |  |  |  |

St itemfnr, showing the Wcight of Yarn in Mapufactured Cotton Goods Expoited from England in 1846, olso the Avsrage Value per Prece, \&se with the Total Amount of each Deseription

| DESCRIPTION | $\begin{aligned} & 8 \\ & \frac{8}{0} \\ & 0 \\ & \frac{0}{2} \end{aligned}$ | No of Yarda $\alpha$ of each Descriptron |  | ```No of Piecer Ac of each Descopteon``` | $\begin{gathered} \text { Werght } \\ \text { of } \\ \text { Yarn } \\ \text { in ench } \\ \text { Piece } \end{gathered}$ | Totat Wetght ot Yara Exported in Gox: | $\begin{aligned} & \text { A Ferng } \\ & \text { Price } \\ & \text { fearh } \\ & \text { Hices } \end{aligned}$ | Totel <br> 1al io of <br> Grode <br> Fxportal <br> fn 1846 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Calceos printed sad syyd | 14 |  | ${ }^{3085}$ |  | liss 02 |  | $\begin{array}{ccc}s & d \\ p & \\ p & 0\end{array}$ | $4, \frac{x}{7 x 151}$ |
| Ditto paita | 7 | $61+183181$ | 4 | 25 4i 907 | 412 | 148209.5448 | 9 $f$ | \$17x.574 |
| Gambr cond matina | 4 | - 450 as | 20 | 2 CL 549 | 30 | ebis 964 | 70 | 78045 |
| C ton nad linen mixed | 9 | 111 Tw | 40 | - 141 | 84 | 92x 519 | 100 | 14372 |
| D mithes | 8 | $2 \sim 417$ | 60 | 14 | 120 | 56 \% | 210 | 509 |
| Dimat $k$ at didiopers | 3 | 9 | 36 | 204 | 10 | 2,8010 | 20.5 | 270 |
| Giont is and chatia. | 10 | 28149 | 210 | 29874 | 38 | 103459 | 91 | 13831 |
| Lawnotabd leneat | 4 | 4111 | 数 | 105 | 23 | 1012 | 10.0 | 202 |
| L wo not AC | 17 | 890*6 5 | 30 | 110963 | 0 n | 050.142 | 00 | c, 1 ds\% |
| Mankeeu | 12 | 13475 | $\cdots$ | 211 | 4 | 3564 | 104 | $2 \mathrm{y} \mathrm{w}^{3}$ |
| Qaitiog and mios | 13 | 11621 | 60 | 1,945 | ld 4 | 35 ,4x | 410 | $49^{4} 2$ |
| 11twhta ke | 13 | 14981 | 50 | 4891 | 20 | 520 | 11. | 2394 |
| Val fama veltera *0 | 11 | 1901 '204 | 60 | 31 『as | 212 | ${ }^{6}$ | 110 | 04 W3 |
| fons torpanea ke | ${ }_{8}^{8}$ | 113 ms | No | 11309 | 78 | 54.4 | 4. | 2+4th3 |
| ${ }_{H}$ ury | 15 | 35010 | doz | 35130 | 29 | \$7185\% | $J 4$ | 16383 |
| Shant and inndterchicf | 10 | 545 ncz | do | -4 A24 | - ${ }^{-1}$ | 136415 |  | 1023.31 |
| Tip atillaibina | 18 | 1124 | do | 1118 | 10 | 12:28 | 10 | 1218 |
| 1, if rumerated | 29 | 31131 | $\boldsymbol{f}$ | $\rightarrow 151$ | 100 | fti 610 |  | 0.161 |
|  |  |  |  |  |  | 144 E413 3 $15 \begin{aligned} & 13005 \\ & 34535\end{aligned}$ | 148 | $\begin{array}{r} 1810,183 \\ 18574 \\ 1110400 \end{array}$ |
| Toral |  | Weight of Ya | an | Value sa 181 |  | 31201749 |  | 2145491 |
| Ditto |  | dita |  | 184 |  | 33 CNO 3327 |  |  |
| 10 too |  | 418 |  | 10 18 |  |  |  |  |
| $1{ }^{1} \mathrm{l}$ tto |  | dutes |  | $18-3$ |  |  | 1 1812427 |  |
|  |  | ditio |  | 10 lb |  | $30+214$ |  |  |
| ${ }^{1} \mathrm{rco}$ |  | Litio |  | ta 3 3it |  | 2 \& 17 |  | $17) 16 \mathrm{~N} 4$ |
| D eto |  | 111 |  | to 141 |  | 2297112 |  | - 1t $* 1.80$ |
|  |  | dit |  | 103 |  | 251030053 |  |  |
| Lf ${ }_{\text {L }}^{\text {to }}$ |  | num |  | (1) Jid |  |  |  |  |
|  |  | ditts |  | to 3 tr |  | 17 \% 180 | - 16.1532 .59 |  |
| Dites |  | d to |  | to 12 |  | 19x no 10 | 000815108 |  |
| Dittu |  | ditso |  | to 1435 |  | 141510781 | $\begin{aligned} & 14316973 \\ & 17,14153 \end{aligned}$ |  |
|  | ita | d 40 |  | 10 . 18 |  | $171475+11$ |  |  |

Wages of Labourers employed in Cotton Factorzes－Mr Coweli，one of the commussioners of factory uquiry，obtaned，when at Manchester in 1833，accu rate returns from 151 of the pnncipal mills in that town and its mmedrate vicinty，and in the adyoning manufacturing districts of Lancashire and Cheshre， employing $48,64.5$ hands，specifying the departments in which they were $r e$ spectavely employed，the number，sex，and age of those employed in each，and the wages earned by each class durng the month and week ending the 4 th of May， 1833 The general results are as follows－

Table distributing the 48,645 Hands minto Eight different Branches or Departments of Cotton－worling，and showng the Aggregate Nett Earrungs of the whole Number of the Operatives in each Branch，and the Average Nett Earmags of an Opcrative in each for suxty－nine Hours Work

| 由MPLOYED | Adults |  | Chadarea under elfintect I 1 tury |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | N0 | No． | No | No |  |  |  |  | ＊d |
| Creaning and spread iny cotion |  | \％ep | 229 | 6\％ | 1783 | 384,6005 | $275{ }^{18}$ | 911115 | 8 2t |
| Carding | 2350 | \＄ 301 | 1328 | 2818 | 9397 | $25^{2} 1$ LRS | 275 | 17 绍 1088 | 92 |
| Mute－mpinoing | $\bigcirc 6$ | 1149 | 6.500 | 2） | 1 6105 | 42912080 | 2719 | \＄801710 27 | 16 |
| Throxule apinaing | 194 | 683 | 413 | 205 |  | 3n1 砤 5 | 2717 | 481915 | 79 |
| Reeding | 110 | 20342 | 15 | 573 | 3.316 | 906 918 | 939 | \＄213 14 | 7114 |
| Werting | $46{ }^{4} 7$ | 6，104 | 483 | 3674 | 16060 |  | 2743 | \＄0，0000 19 11 | 113 |
| Holier－movering | 4 | 87 | 6. | 16 | 170 | 975080 | 2760 | 414157 | 121 |
| men mechanicos，de． | 927 | 7 | 0.1 | 1 | 983 | 2707207 | 2737 | 4．02］ 15 2 ${ }^{4}$ | $20 \quad 6$ |
|  | 18740 | 14821 | 10 n＊ 1 | 0，780 | 45045 | 3 862 2004 | 27461 | 1099－1 28114 | $10 \text { cropt }$ |

Subjomed is an account of the prices of the principal artucles of provision in Manchester，from 1826 to 1832，both melusive，also drawn up by the Chamber of Commerce－

| ARTI | CLES | 1826 | 1847 | liza | 1048 | 1830 | 1281 | 15 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Steef beat． | per lb | ${ }_{0}{ }_{0}^{\text {d }}$ | 4 0 0 | 0 ¢ 4 | $\stackrel{4}{4}$ | $\begin{array}{ll}0 & 5 \\ 0 & 81\end{array}$ | ${ }_{0}^{6}{ }^{6}$ | ＊ | $d$ |
| Do coarec． | $d a$ | $0{ }^{4} 4$ | 0 c | 04 | 0 3 3 | 03 | $0{ }^{3}$ |  |  |
| Bracon | ds | 0 － | 0 － | 0 It | 0 d | 0 O | 07 | 0 | 7 |
| Bread flamr | por 19 tha | 15 | 25 | 27 | 89 | 07 | 98 | 3 | 4 |
| Fo wheates | per 14， |  |  | 0 14 | a ${ }^{5}$ | 32 | 0 1f |  | \％ |
| Cbeess | did |  |  |  | 0 ck | 071 | 08 | 0 | 7 |
|  | pere sthy |  | 24 | 28 | 23 | 21 | 24 | 2 | 2 |
| Muat | per 10 lisal | 1 1t | 1 －${ }^{\text {c }}$ | 174 | 15 | 16 | 16 | J | 3 |
| Potatomes | Pex 232 lus |  | 49 |  | ${ }_{6} 0$ | 60 | 6 s | 4 | 3 |
| Pork | perib | 0.48 |  | 0.4 | 0 dt |  | 0 34． | 0 | 4 |

Tanle showing the Averago Nett Earmogs of certan Clasess of Operataves employed in the Four Processes of Carding, Mule-spinning, Throstie-spinning, and Weaving


The wages pard to the labourers in cotton factories, and other descriptions of woik people, in Manchester, is stated in the following table for 1832, since wheh there has been no mportant change, drawn up by the Manchester Chamber of Commerce -


The following additional statements of the culturation of cotton in the Presidency have been furnshed to us since the foregoing sheets were printed

Cortron Cultivation in the Surat Collectorate

|  | Govexament Lagd ealtiveted mith |  |  | lat the Proportusi of for |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cottos | Ocher Prosuct | Tosac | Cotter | Uthat 1 raderm |
| 1835-36 | 49217 | 150008 | 229248 | 214 | \% ${ }^{\text {\% }} 3$ |
| 1836-37 | 30,877 | 192121 | 93190 | 1719 | ${ }_{57} 81$ |
| 1887-38 | C2, $\mathrm{Bl}^{5}$ | 179181 | 241976 | 2507 | 74, 08 |
| 3838-69 | 61500 | 13154t | 313108 | 239 90 | 7110 |
| 1839-40 | 51807 | 205,368 | 235280 | 2017 | 79 ${ }^{3}$ |
| 1840-11 | 48008 | 139 239 | 29\% 2 ¢ 6 | 1467 | 8, 31 |
| 1341-42 | 71343 | 191029 | 209374 | \% 19 | 7281 |
| 4942-43 | 57439 | 917109 | Y 4.548 | 2099 | 79 वx |
| 1843-44 | 36849 | 2721.833 | 2850 | 1404 | 850\% |
| 1844-45 | 6 6 933 | 179007 | \$15006 | 86 | $7{ }^{7} 109$ |
| 1845-40 | 67176 | [75,595 | 222769 | 2430 | 76. 44 |
| Total | 845,915 | 2,289, 5000 | 2987 980 |  |  |
| Averagte of 12 ymat | 58639 | 190.354 | 243093 | 29 | 78 |

Corrox Cultivation in the Candenh Collectorate

| Y 4 A X 8 | Covernacrit Lind cultisated with |  |  | In tha Proportion of Cor |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cotton | Other Products | Totalin | Coltos | Other Prodacta |
| 1834-35 | beegun D) 433 | bergen 765050 | Derenes 4. 912 | $\begin{gathered} \text { per centr } \\ 1065 \end{gathered}$ | $\begin{aligned} & \text { por eent } \\ & \text { ge } 35 \end{aligned}$ |
| [1435-36 | 199494 | 900.357 | 9253 Al | 1298 | 6812 |
| 28.36 .37 | 94757 | 903456 | D982 215 | $9 \mathrm{c}+9$ | 90.31 |
| 1837\%-36 | 12.194 | 945174 | 1066389 | 1136 | * 164 |
| 1834- 59 | 89.135 | 4, ${ }^{\text {a }}$, 303 | $107 \%$ 8\% | 562 | 9138 |
| 1530-40 | 92.773 | 1015293 | 1107556 | $\$ 33$ | 9167 |
| 16to-41 | 76014 | 959360 | 1671374 | 719 |  |
| 1411-44 | 128, 793 | 287 9897 98.30 | 1111430 | 1114 0.14 | 8880 |
| 1898 | 行 917 | 1001451 | 10 kiv 1a3 | 819 | 91515 |
| 18.51-45 | 115 790 | 9243830 | 10.45 | 11 4s | Bas 5 |
| 1843-46 | 129538 | 1,015 201 | 1145,794 | 1139 | N 0 |
| Totac | 1293504 | 16288.592 | 17348186 |  |  |
| Atrrage of 12 yearm | [15-489 | $940 . \% 15$ | 1043265 | 10 ed | Stiofi |

Corton Cultivation in the Sholapoor Collectorate

|  | Gorerametet Load enltivawd with |  |  | ta the Praportiono it |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cotton | Other 1 roducts | Terai. | Collos | Ofler Producin |
| 1934-35 | 3eres |  | 4 cmpen | $\begin{gathered} \text { pet cent } \\ 0 \text { (in } \end{gathered}$ | $\begin{aligned} & \text { per cent } \\ & \text { eqs } \end{aligned}$ |
| 18.55-6ai | 4710 | 6,1] 980 | 815 wop | 044 | \$4 36 |
| 1838-37 | 58985 | 607 (60) | 72059 | 818 | 909 82 |
| 3437-39 | $2{ }^{24} 841$ | 776.604 | 80004 | 870 | 9630 |
| 185a-39 | 35415 | 813177 | $8 \mathrm{cds} 62^{5}$ | 409 | 1593 |
| 1 $1 \times 39$ - 40 | 95 0001 | ${ }^{1} 8089508$ | 1077 man | 538 |  |
| 1811--41 | 55853 | 1 精 189 | 13075 | 423 | D6 5 |
| 311-42 | 48 454 | 1304471 | $14 * 3,085$ | 348 | 965 53 |
| 1942--43 | 68.190 | 1380000 | 1,598 05 | $4{ }^{46}$ | 0574 |
| 1843-74 | 64807 74.36 | 1774811 1510348 |  | 498 |  |
|  | 51440 | 151038981 | 15011898 | $3^{14}$ | ${ }_{97}{ }^{20}$ |
| Torac | 515,750 | 13,04t 008 | 18562,815 |  |  |
| Avmege of 12 yearm | $489 \%$ | 108745 | 11308 | 347 | 0853 |

Statement, showing the extent of Government Land under Cultavation in the following Collectorates of the Bonbay Presidency, dastingushing the Lauds cultrvated with Cotton from those cultupated with other Products

| YEAR | EROACH |  | S0RAT |  | OANDEISH |  | SHOLAPOOR |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Coltor. | Other Reo sucts | Cotton | Other P'rodectar | Cotton | Other Produeta, | Cottor | Other Prove ducly |
| 1834-55 |  |  302076 | beegea 4232: | beepay 181978 | becgas 91437 | beegaty | $\begin{aligned} & \text { acres } \\ & 2 ; \operatorname{se9} \end{aligned}$ | acres 4.460 |
| 1835-96 | 274609 | 208 232 | 41217 | 180034 | 119494 | 30\% Ry7 | 2510 | 612 樶0 |
| 1835-57 | 242086 | 342123 | 30.87 | 192121 | 91547 | 903458 | 32922 | 697060 |
| 183-38 | 231658 | 522328 | 62 645 | 179181 | [21 194 | 945174 | 20.94 | 7 TO 104 |
| 1838-39 | 328640 | 564803 | 61500 | 151518 | 89 438 | 048303 | 35445 | 893177 |
| 2639-40 | 30753 | 3108804 | 51607 | 205368 | 98,278 | 101512043 | 68001 | 1 240 502 |
| 1540-41 | 239918it | 221 633 | 48928 | 209285 | 6014 | 793360 | 65 258 | 1458189 |
| 1841-4 ${ }^{10}$ | 230449 | \$500 \% 4 | 71343 | 186 | 123703 | 9897457 | 49554 | 1,391371 |
| 164 - 43 | 209 9 成 | 372,250 | \% 130 | 217109 | 10996 | 944 379 | 63130 | 1590069 |
| 1F43-44 | $217 \times 14$ | 408, 16 | S6, 249 | 2121833 | 97912 | 1001481 | 134 6.07 | 1 344 114 |
| 18.44-3 | 23480 | 31585 | 6*,933 | 119007 | 1909 | 903089 | 7 3010 | 1 316348 |
| 169.-66 | 277448 | 433885 | 57176 | 178593 | 120,535 | 1016.661 | - 510 | 1 004.581 |
| Total | 3212113 | 4198442 | 445015 | 2838006 | 1354 | 11 958,592 | 18,780 | 1304706 |
| Average of twels y yry | 867877 | 348,578 | 53640 | 190,334 | 104549 | 940710 | 14978 | 108288 |

A Table showing the comparative Cultivation of Cotton with other Products, on the Government Lands in the following Collectorates of the Presideacy of Bombay

| YEARS | \%ROAch |  | SURAT |  | OAND ISEH |  | SHOLAPOOR |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cotton | Other Proctactio | Cotton | 6ther Troducts | Cotton | Other Products | Cotton | Other Products. |
| 1834-85 |  | $\begin{gathered} \text { per cest } \\ \text { cis } \end{gathered}$ | pur cas | $\begin{gathered} \text { porcind } \\ \text { obl } 1 v \end{gathered}$ | $\begin{aligned} & \text { per cont } \\ & 1065 \end{aligned}$ | per cents A5:35 | pey crot | $\begin{gathered} \text { per otat } \\ 9\lrcorner 38 \end{gathered}$ |
| 2035- it | 4472 | 5318 | 214 | 765 | 12 y | 8713 | 048 | 90-56 |
| 1R16-3: | 4143 | 857 | 1719 | 64>1 | 0.45 | 9031 | 818 | 9 H 82 |
| 1635-3y | 411 | 43, ${ }^{\text {a }}$ | 2397 | 7408 | 1134 | 8864 | 30 | 9630 |
| 18.54-20 | 94. 2 | 4508 | 28.8 | T4t0 | $8{ }^{8}$ | 918 | $4{ }^{18}$ | 9.9 |
| 1039-10 | 43) | 5026 | 2017 | 983 | 633 | 9167 | 538 | 049 |
| 1840-31 | 431 | $3 \times$ dio | 3807 | 81 33 | 180 | 320 | 412 | 9578 |
| 12n-1 | 41.4 | 5873 | 2719 | 7401 | 1114 | $8{ }^{8} 86$ | $3 \times 2$ | 1538 |
| 1N4-4* | 4193 | 5807 | 20 ย2 | 79 | 0 07 | 9003 | $4{ }^{4}$ | 0s 74 |
| $5 \mathrm{~m} 43-4$ | 347 | 65123 | 1404 | 45 00 | 808 | 9193 | 439 | 93) 32 |
| 1-14-4s | 4111 | 59.8 | 2601 | 73 (1) | 11.48 | \% 32 | ${ }_{3} 74$ | 9595 |
| 1*-4, $=0$ | 4535 | 646 | 2480 | 74.4 | 1150 | 8 70 | 3 | 9\% |
| Aremaco of twis, 1 | $\pm 35$ | 6642 | C | 78 | $10^{\circ} \mathrm{O}$ | 9\%-06 | 347 | $9{ }^{\text {r }} 33$ |

Exrort of Manufactured Britsh Cottons and Yarns fiom Borrbay to the Ports of the Coacan in and damng the following Years

| YRAR8 |  |  | Goends Prinia |  | Goods Dyed and Priated |  | 3 ara |  | Torita <br> Yaing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | P1ecta | Value | 1 nece* | Value | W atght | Vatue |  |
| 183f-35 | mun | rupre $2,011.381$ | number | rupaes | number | rapeer | 118 44981 84 |  | rupers $\begin{aligned} & 2,0 \times 7408 \\ & 10 \end{aligned}$ |
| 1837-35 | 2330 | 120784 | 210309 | 1007494 | 14031 | 241118 | 8434 | 19.56 | 1300082 |
|  |  |  | 24. | 1175 | 40129 | 250, 912 | 50875 | 3754 | 143294 |
| 1954 - 60 |  |  | $23+15$ | ${ }_{1} 3 h_{4}$ 292 | $11{ }^{1 / 2} 14$ |  | 44840 | 4 A 154 | 11.4644 |
| $18.11-41$ |  |  | $3 \mathrm{Fr6}$ W0 |  | 1316 | 159 2sd | 67679 | St 18\% | 219403 |
| $1+1-14$ |  |  | 2 Lfa 546 |  | 4) 186 | Soys sef | 1433600 |  | 1603906 1975072 |
| $\begin{array}{ll} 1=4 & 17 \\ 1=1+1 \end{array}$ |  |  | $4{ }^{24} 85$ |  | 41 tif |  | 415420 |  | 1975972 14.449 |
| $1 \times 14$ |  |  | 1313 | Ext is | 4) A (22 | P00, 5 | 30820 | 3.4635 | 1497043 |
| 104-4 |  |  | 123 alt | $7 \quad 353$. | 542 | 17 JM9 | 246198 | \$164.70 | 1173111 |
| 1 ral |  | 13.10 .4 |  | $1108 \times 357$ |  | 2031725 |  | 1,3850te | 16,641 278 |
| Arestag of tens | ) ars |  |  | $\begin{array}{llll} 1 & 10 & 5 \\ 5 & 11 & 3 & 695 \end{array}$ |  | 05172 48317 |  | $\begin{aligned} & 19 \text { nol } \\ & \leq \pm 1,1 \times y O \end{aligned}$ | $\begin{array}{r} 16 \sin 123 \\ \text { fiNtutis } \\ \hline \end{array}$ |

Export of Manufactored Bntash Cottons and Yarn froma Bombay to the Ports of Guserai, duning the following Years

| Y $\mathrm{E}_{\text {A }} \mathrm{S}$ | Gpods pot deacrib 0 |  | Geodr Plaiz |  | Giente Dyed and 1 ribted |  | Yarn |  | $\mathrm{T}_{\mathrm{i}}^{\text {Totha }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Preces | Volue | Pleces | Valpe | Precer | Yoles | Woighe. | Valae | Amuant |
| 1836-97 | number | rupera | number | supee: | number | rapees | ${ }_{105}^{165}$ |  | rapera |
| $1837-39$ | 36,2393 | 200,347 | 302457 | 1535000 | 24333 | 14673, | 1 258, 365 | $10 \cdot 46 \times 30$ |  |
| $\bigcirc 38-29$ |  |  | 404013 | 153813\% | 18.25 | 12327 | 1204736 | - 3 109 | 6 164 |
| 1839-40 |  |  | 61104 | 2161356 | 780 | 5.33 | 1720 48 | 03740 | 3643.092 |
| 1840-41 |  |  | 651300 | 23 14 eds | $10 \mathrm{H}, 04$ | $5{ }^{5} 80.7$ | 1 4 4th 99 | 93534 | 3 H \% 6\% |
| 1F41-97 |  |  | 17.20 | 2a, 26.914 | 9 LCO 5 | $6.07 *$ | 171001 | - thl | 415118 |
| 1842--43 |  |  | 891 807 | 3 ¢ 70 jes | 123049 | 6 \#3 -33 | 173965. | J $1 \times 840$ |  |
| 3843*-4 |  |  | 8x 918 |  | 1141241 | 4.4874 | 1,20179 | J \% 7 7en | 5150403 |
| 1945-45 |  |  | 10110030 | 3730 | ${ }^{184} 933 \mathrm{c}$ |  | 1 3774 | ${ }_{4} \mathrm{CHO}_{2}$ | 5066852 |
| 1845-40 |  |  | 857214 |  | 1353146 | 700 | 1620307 | - 9 | * - 420 |
| Totat |  | 2516122 |  | 2,37,38 150 |  | 454315 |  | ge, 312 5 | 1035025 |
| Average of ten yenrs |  | 28454 |  | 2973.31 y |  | 434411 |  | 50322 | (11) 3002 |
|  |  | 20.2. 4 ch |  | $\pm 23$ 312 |  | eburdil |  | +96 52 kg | \$4t 30 |

Cohearative View of the Import of Manufactured Cotton Goods and Yarn anto Bombay from the Ports of the United Kingdom


The following table, drawn up by Mr Chapman, apphes to the thrteen years, ending with 1816, and is drawn from Burn's Statistics of the Cotton Trade, and from the Report of the Bombay Cotton Commitee, Parl Pap 712, of 1847

The total supply to Eaghand from all quarters durng those tharteen years, was, accordiog to Rurn's, $6,242,168,603 \mathrm{lbs}$, the annual average was, therefore, $480,166,046 \mathrm{lbs}$, consequently, multuplyug the proportionate supply In the table from each country or port by $62 \frac{1}{2}$ (or more nearly by $6242,8 \mathrm{c}$ ), will give the total supply it contributed in thirteen years, hkewise, multiplying by 48 , will give its average anntal supply

The total export from India to England in tharteen years is stated in the Report of the Bombay Committee to be $866,390,353 \mathrm{lbs}$, the import into England from Inda is given in Burn's, at $800,518,822 \mathrm{lbs}$, whether thus disagreement arises from the difference of stocks and cotton in transit at the be-
gunning and end of the period, or from different estimation of the weight of bales, it seems probable it affected all the mports alike, and, therefore, the exports from each of the four ports have been reduced proportionably, in order to produce a total, agreeing wath Burn's total of the imports

Bombay esports largely to other countries besides Cangland, chrefly to Chma. The total exports in thuteen years were $1,524,943,729 \mathrm{lbs}$

The imports from Bombay, from its dependent ports, dunng the thrteea years, were $1,401,777,288 \mathrm{lbs}$, of which only $717,616,000 \mathrm{lbs}$ were exported to England, besides this, the export accounts of the several Indran ports do not exactly agree with the import accounts at Bombay To denve the total export of the small ports from this table (which is framed only to give the supply to England), multiply for the several ports of Guzerat, Concan, and Canara, by 112 for thirteen years, and by 83 for a single year, for Cutch and Scinde, maltiply by 112 and 93 respectuvely

General View of the proportoonate Supply of Cotton to all Eagland, showng how mach out of every $100,000,000 \mathrm{lbs}$ has been contrsbuted by each Conntry or Port

| C O D T R I ES | Amount. |  | Amoant |
| :---: | :---: | :---: | :---: |
| Totac Ixpolit into Encland | 3b: | Concin (50e above) | Ths |
| From Ammpes | 792500 | Prome Amergadm | 2 x |
| If 2 L | 1409800 | Tart poor | 318 |
| F pt | 204000 | M Litus | 325 |
| Het trater | 923, 601 | H20etas | 5 |
| Luat indet (ray below) | 12,621 400 | Colluan | 1,317,916 |
|  |  | als te |  |
|  | 100000000 | Car mia |  |
| EAST EADIES (seco nbova) |  | Pantell | 1,609 34\% |
| Bonity ( | 11408200 | A boagy | 79 |
| C) wites | $2 \mathrm{zi9} 450$ | Yoratr |  |
| Msd a | 82 440 | R) ${ }^{\text {nir }}$ | 4878 |
| Tutteotin | 23140 | Sose tr dracy | 362 |
| Homitr (ace abote) <br> Gurerat (ane helosp) <br> ( 4 a lifito <br> hi lab rand (aomr uikto) ( hict and br aldato) <br> All ohiner goarters | 12,825 400 | Ray*ptor | 30530 |
|  |  | Rutasgreury | 2 ch |
|  |  | Mandroug | 10.50 |
|  | 6, 8838189 | Sipwaut Warcet | 149896 |
|  | 1243573 |  |  |
|  | 575760 |  | 3,279,890 |
|  | 1170 | Malasar amd Cayama (see ebote) |  |
| Gezerat (sed abofe) | 11,406,490 | Cxagth Malabar | 1147 ctil |
|  |  |  | 97 Jth |
| Tunkaria | 710409 | Coscr ane Scrupa (see ebore) | 124.370 |
| Surt | 1124.590 |  |  |
| D all max | 1,437 4,30 | Troak, hobeor and Wowarin |  |
| toc of Mbster | $6{ }^{6} 2140$ | Mire palrose | of 4i3 |
|  | 424, 30 | Mandavec. | 04759 |
|  | 0,382,410 | Lach put. | 17 저 |
|  |  | All Catch Serank | $\begin{aligned} & 290 \div 81 \\ & y_{4}^{4} 675 \end{aligned}$ |
|  |  | , | 875460 |

## CULTIVATION OF BILK IN INDIA

The breeding of silkworms appears to have ongnated in Chna, where, however, the cocoons were found attached to the trees, in a wild state in the woods According to Pliny, sulkworms were rased in Cyprus, and the silk collected in great quantities about 150 years before the burth of Christ In China, where different kinds of silkworms are reared, the best and most prolific is the Fagara, or a kind of pear-tree worm The others are the pine-tree and the oak tree Of the different kinds of silkworms or caterpillars, the Phalaena Bombyr is that which supplies the chef silk of Europe The Phalaead Allas is the most prohific in the quantity of silk produced by each worm Woven sllks were worn at Rome in the tame of Pompey and Juhus Casar, but it was probably then as dear as its weight in gold Helogabalus wore a role sad to be wholly of silk (Holosericum) If was afterwards worn sometmes by the common people China was the country from which woven sllks then appear to have been brought, down to the sixth and even seventh century Ahout the maddle of the sixth century the eggs of the silkworm were cartied from China by Persian monks to Constantinople, and reared in that neighbourhood, and probably in Assa Minor

British Inda might supply vast quantities of raw silk, but the quality, chuefly from inferior preparation, is also infernor to the raw silk imported from other countries The silk groods of India are also far inferior to those of China

Reeling was introdureed into Indıa by the Company as far back as $1 / 60$ But inttle improvement, ether in culture or preparation, seems to have been made sunce that pernod
Importation 1 ato England of Raw Silk from Bengal and Chna durng the followng Years

| YBARS |  |  |  |  | SILECHINA. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qatastit |  | Value at 20\% per 13 |  | Quautity |  | Value of tey per lb |  |
|  | Imparted | Exporten | 1mparted | Exported | Impported | Exported | Imported | Exported |
|  |  |  |  |  |  |  | 95 | $\operatorname{lin}_{402}^{x}$ |
| 1799 | 443388 425334 | 3648 13 1306 | 454 42588 485 | 36456 13406 | 198924 10289 | 8,109 $\mathbf{3 1 0}$ | 14380 | $\begin{gathered} 11 \\ 7 \\ 7 \end{gathered}$ |
| 270 | 786 omt | 19393 | 720)081 | 19383 | 1715081 | 3704 | 2440 | 576 |
| 1784 | 581400 | 41969 | 5814001 | 42389 | 9\% ${ }^{\text {a }}$ | 8 cas | 135339 | 12127 |
| 1795 | 481199 | 39,547 | \$81 190 | 308547 | 154205 | 3,642 | 32115 | $5{ }^{571}$ |
| 1706 | 3479330 | 70114 | 347936 | 70114 | 1204 | 7279 | 18155 | 10170 |
| 1707 | 02204 | 69760 | 93 904 | 50760 | 75.20 | 1 - | 105 | 6,4迷 |
| 3709 | S83, 391 | 50060 | $8{ }^{\text {a }}$, 394 | 36000 | 159186 | 4820 |  | 548 |
| 1709 |  | 61,585 | Giv 808 | 51,389 | bis dot | 2 (a) | $8 \mathrm{CO} \mathrm{Cl}_{4}$ | 2, 6 5 ${ }^{1}$ |
| 1*0) | 0830 085 | 23113 | 597 086 | 23113 | 923333 | 1780 | 129.307 | I 788 |
| 1801 | \$4] 825 | 21597 | 851825 | 21837 | 131335 | $3 \times 71$ | 18.4 | 5419 |
| 19082 | 111.37 | 28070 | 111737 | $2{ }^{2630}$ | 75348 | \$, 812 | 140 bas | 5.335 |
| 2809 | 404631 | 1874 | 40\% 0131 | 13 779 | 7433 A | 4374 | 104352 | 61.3 |
| 1804 | 02.4888 | 14697 | 6 CH 875 | 41898 | 90,369 | 4880 | 1805 | 612 |
| 1805 | 845497 | 21 PaO | $8{ }^{8} 497$ | 21990 | 76369 | 3.9-1 | 106 5008 | 5.517 |
| 18.96 | $412 \mathrm{Ag1}$ | 17295 | 41831 | $17{ }^{215}$ | 14.60 | 002s | $28+59$ | 1 164 |
| 1807 | 513.823 | 24.144 | 613823 | 25 44. | 55 27\% | 1437 | 77387 | gers |
| 5868 | 3 4 c 227 | 22104 | 380427 | 92.104 | 1178 | 3843 | 364997 | 5380 |
| 38010 | 1 HCO |  | 1 mm 100 | 20.487 | 506003 | 3709 | 140,011 | 5191 |
| 1310 | 57.396 |  | 67 326 | $2 \times 40$ | 54378 | 1637 | 76,126 | 1791 |
| 2811 | $414+4$ | 4860 | 414464 | 4.806 | 91394 | 1195 | 113955 | 1070 |
| 1834 | 06.414 | j8 lat | 964414 | 18,42 | 150,629 | 8205 | 210,400 | 5.087 |
| 3918 | $48_{1} 315$ | 43129 | 96370 | 43,128 | 210120 | 9 9 | 3 (rise 590 | 13,007 |
| 1916 | T0. 653 | 26d R9\% | 504063 |  | S4937 | 18455 | 121083 | 18.336 |
| 1817 | 531003 | 64391 | 553603 | 64291 | 109367 | A 264 | 14153 | 8.323 |
| 1818 | 071 130 | 4736 | 971139 | 47364 | 1491978 | 34170 | 205 819 | 67924 |
| 1819 | 933 R17 | 43870 | 9x\$ 817 | 49,570 | 141335 | 8935 | 19785 | 4.109 |
| 1880 | 1878.671 | 11367 | 3078611 | 11107 | 271115 | 1228 | 37931 | 1720 |
| 1821 | 1051017 | 19.85 | $105 \% 265$ | 10834 | 975,110 | 9705 | 385144 | 3.013 |
| 188\% |  | 15,230 | 674\%28 | 15,330 | 228073 | 2546 | 341743 | 8 sac |

By the probibitory lan of 1765 the English silk manufacturers were legrily secured in the evolusive possession of the home market The slow progress of this fabuc will appear from the following statement of the quantities of sulk entered for consumption on the United Kingdom，compaled by Mr Porter－


Total Quantues of Raw，Waste，and Thrown Silh，Imported and Lutered for Home Consuraption in tho Uuted Kingdom，from 1814 to 1848

| Y A E S | Frem the 压號 Ind Chant \＆t IH 1 min and the $C$ es of Goca fl per | Prim Tultey Bad 6rirtes | Frome ether Princlidy Fer cequd ltaly | From mill Poytis | Griog Abmunt Nuty 5 cuated |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 8911 | 1． 04.303 | 1108 | Itss Cat | 2,114 | $\mathrm{7anc}_{\substack{4 \\ \text { mi }}}^{16}$ |
| 14.15 | 149 | 3 S1 | ［0］9io | 147， 1 | $116 T 145$ |
| 1＋1） | 109 | $\pm 313$ | alf 71 | 1 cm | $34 \times 941$ |
| 12］ | $1 \mathrm{bl} \mathrm{x}^{.9}$ | 40 | 0114 | $1 ¢$ | 53480010 |
| 1518 | 1 120 ${ }^{10} 1$ | \％15，7 | H4 013 | 192 | Eis ） 431176 |
| l 1 | 1）＋1\％ | ह） 79 | $7290 \%$ | $1 \times 7$ | 如！51建 |
| 1 | $10^{10} 4$ | 124 $4 \geq 2$ | met 56 | $4{ }^{1} 1$ |  |
| 11 | 145 43 | 171 | 10 Fy ¢0 |  | 714 \＆ 717 |
| 1 H | 11498 | 1273 | ］ $\mathrm{H}_{1} 1(\mathrm{tadz}$ | 111303 | 7744199 |
| 125 | 1218 | $1) 5$ | 1 （t）\％\％ | 2 te 121 | $7 \mathrm{f} \times 6.0$－ $0^{6}$ |
| $1{ }^{1} 1$ | 11．193： | 570 | 310 |  |  |
| 1－25 | $15^{2-7}$ | 3.45 | $\pm 96166$ | 3105 | 2040， 3012 |
| 13 |  | 2315 | 8904 | 253113 | mis olt |
| lut | 1 n 443 | 31467 | 2050 4 | 4213153 | 11094 |
| 1020 | 1 ，wh | 53127 | 1it 31 | 4 \％ 810 | 11馬 0 |
| 10 | 1.5 SA 2 | 2＜03 | 14206 | 1 +1.401 | $1 d T \quad 3 \quad 7$ |
| 19 | （1）3 | 4） 13 | 15251 | 14 It ${ }^{\text {a }}$ | Ex -1405 |
| 13 | 151 nex | Str | 2473 | $4 \% 1330$ | croors 1411 |
| 17 | 1 148） | 410 | 2 п¢，103 | 4192 | Cri）win 194 |
| 1 | 131 | 4 t 30 | 9413 | 47413 | $5{ }_{5} 6413$ |
| 1451 | －4 33 | 3.14 | － 2 ccot | 124351 | 4） 214 |
| 13 | $2+213$ | 哈 11 | 只42， 305 | 5 ¢ 4545 | 5123133 |
| 14.3 x | 4 4） 40 | 65 （as） | $2+3148$ | 6 W 100 | GC 334 |
| 3 | 2 （a） | 23 4． | 1 （4） | $4 \operatorname{sin~}^{5}$ | 004.3166 |
| 1＊ | 431 | 5319 |  | 4,592 | Et＋＋13 7 |
| 1 ， | 1 31710 | 40tty | $7 \times 0$ | 4720834 | $51 \sim 10$ |
| ］ 1 | $1 \times 1 \pm$ | If 15 | $2 \Gamma 5$ | 4） 04 | 03001109 |
| 10＋1 | $1315+57$ | 24）＜2 | $2 \times 3$ t3 | 4 ks 572 | $51 \% 083$ |
| $3)$ | 1117 | 3） 9 | 3 （7） 3 | $5744 \%$ | 173000 |
| 1.11 | $t$ tits | 如f ¢ 11 | 5 | 534810 | 7 的令－t |
| 117 | $\cdots+1$ | ¢1 is | 1ら4 | 5134 | 5010380 |
| 315 | 2114 | 46x 4 |  | $6,7 \div 13$ |  |
| 181 181 | ） |  |  | $5{ }_{5}^{5} 17153$ | fres fres |
| 12．k |  |  |  |  |  |



In 1824 the system of castom duties on raw and thrown silk was changed. The high duttes of $5 \mathrm{~s} 6 d$ per lb imposed upon raw salk, and of 14 s 8 d per ib upon thrown sulk, were reduced, the former to $3 d$ and the latter to $7 \mathrm{~s} 6 d$ per lb These rates were afterwards further reduced, that on raw silk to $1 d$, and that on thrown allk to $3 s$ $6 d$ per 1 b a regulation of the custom-house perrating the latter duty to be drawn back upon the exportation of the goods into which foresgn thrown silk is converted, and m 1815 the duties on importation were wholly repealed In 1824 the system of prohibition aganst foreggn manufactured silh goods was prospectively repealed, and a scale of dutes adopted, under which such goods maght be amported, but in order to afford the salk manufacturers the opportuanty of disposing of goods already made, and of otherwise preparing for foregn competition, such importations rere not allowed to take place until after the sth of July, 1826

An ummediate and great morease was made in the consumpton of silk goods The number of throvarg-mulls in different parts of the country was mereased from 175 to 266 , and the number of spindles from 780,000 to $1,180,000$, yet the throwsters rould not supply the demands of the weavers.

This prosperity was checked by the panic of 1825-6 In the ten years preceding 1824, the quantity of raw and thrown silk used by our manufacturers amounted to $18,823,117 \mathrm{lbs}$, or, an average of $1,882,31 \mathrm{lbs}$, per annum, in the ten years following the change of system, the quantity used was $36,780,009 \mathrm{lbs}$, or $3,678,001 \mathrm{lbs}$ per annum: an increase of ninety-five per cent, and an the eleven years ending 1844, the consumption was $43,588,386 \mathrm{lbs}$, ot $3,962,580 \mathrm{lbs}$. per annum, being an merease of 110 per cent upon the quantity used under the perncious system of fallacy

By competition improved machunery has been introduced in the throwngmulla By the improvement made in the machunery of Jacquard, weavers produce fancy goods, the quality of whech is equal, mo most respects, to the fabrics of France

The Enghsh throwsters, before 1824, charged for converting raw silk moto organane about 10s per lb The duty then mposed upon forergn organzine was $1488 d$, or $9 s 2 d$ above the daty upon raw sulk In the ten years endung 1824, the weight of thrown silk imported was about 233 per cent to the weight of raw sulk, the quantity imported durmg the ten years ending 1844, was in the proportion of \& per cent to the weight of sulk thrown m the mills of the kingdom

As Englsh throwaters have, for more than twenty three years, been met by competition with forergners they have reduced the charge from $10 s$ to from $3 s$ to $5 s$ per 3 b , the rate depending upon the quality of the silk Nor are throwsters in this country in a less favourable state than they were before Greater ingenuty, skill, and mproved machnery, have enabled them to compete far more suceessfully than they could under the fallacy called "protection," by which they were deluded

When the probibition to the importation of foreign silk goods was removed， a duty was imposed of thurty per cent ad valorem，which was soon after sitered to specific rates per pound，calculated upon different kands of goods with the ，new to be equal，in most cases，to thrty per cent upon the value the vague maximum of protection that is to say，the highest scale to prevent encourage ment to smugglers Never was there a greater delusion The frauds even withon the precincts of the custom－house prove that 15 or even 12 per cent umounts to far more than an irresistible premium to nisk all the hazards of the contraband trade and the collnsion of the revenue collectors Sir Robert Peel not only abolished the duties on thrown silks，but he wisely reduced the duty on sulk manufuctures to a revenue rate of 15 per cent The speefic fates are，however， found by experience to be unequal，and a duty of ten per cent would probably yield a greater revenue

The former rates of duty being beyond the cost of smugging，a very large proportion of the silk goods slupped from France for England have umformly found their way into use without passing through the custom house In the seventeen years，from 1827 to 1843 fifty parts in one hundred of the silk goods shpped from France to England have been smuggled

| YE AR | Expr tof fr rm 1 Taciti to $\mathrm{Kt}_{\mathrm{g}}$ land | Eateped st Cugtom <br> Hunaty in England | Qametiy Ridipped wore thas onterod | Contonkinl Prapatenow |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Eistered | Not mbetred |
|  | $\xrightarrow{54}$ | tha | Iba | per cent | Pete mbe |
| 1827 | $\cdots+\mathrm{rab}$ | 102000 | 129804 | 4120 | 9． 31 |
| $\mathrm{HET}_{4}$ | 45031 | 15：16 | 1， $5 \times 15$ | If 02 | 53 34 |
| 4854 | 11684 | 11.18 | $95+1$ | 54t\％ | 4583 |
| 18.0 | 20\％031 | $14.1 \times 26$ | 164 as | 411 | 515 |
| 1631 | 303 fld | 1－4． 187 | 154 4,5 | 4917 | 41.77 |
| 1802 | 31 $2 \mathrm{~K}^{2} 7$ | 14.603 | $142: 8$ | 4687 | 3713 |
|  | 31015 | 14＊196 | 202 建9 | 42 \％ | 579 |
| 18.75 | 317 | 170 | 1714 | 4323 | 411 |
| F3\％ | 2374 | 114 | 130609 | Sr 45 | 4.535 |
| 18.36 | 20 615 | 1977 | 103150，${ }^{101}$ | 63 4， | \＃ 45 |
| $16_{6} 12$ | 26154 | $1 f$ 3 | 101415 | 6217 | 37 H |
| 163： | $31: 10$ | 4148 | 14345.3 | 6223 | 377 |
| 54， | 60535 | 2545 | 841961 | 5052 | 4．） 44 |
| J．40 | 63717 | 20817 | \＄5 710 | 147 | bi 4 |
| 181 | 414 cts | 駇10 | 306 | 4070 | \％36 |
| 1－42 | 314975 | ＊Tras | $32-2$ | 431 | 511.17 |
| 14．6 | 44.438 | 274206 | 20\％ 150 | 5 教 | 423 |
| ＋b－1t |  |  |  |  |  |
| JFH |  |  |  |  |  |
| Tarce | 635131 | 314112 | $31539 \% 0$ | M0 | 109 |

The duty received on $3,173,676 \mathrm{lbs}$ of silk manufactures duing the above serentuen years amounted to $3,136,0911$ ，which is at the rate of $19 s 9 d$ per 1 b During the same period the regular amportations from France amounted to 3，179，112 lbs weight，which 19 about equal to the whole quantity on which duty was pad The sum received，if collected upon the whole quantity shipped from France，would have been no more than 10 s per 1 b －Ponter＇s Progress of the A＇ation

Cilk Milis－The number of silk mills in the townships of Manchester and Shford，which in 1820 whs five，hid acreased in 1832 to sixteen

The following table，on the authonty of the inspectors of factorks，slows the number and distribution of silk factories，and the number of persons employed in them at the buginning of 1835 ，and in 1839 －
Nomber of Sili Factones in operation in the different Parts of the United Kingdom, wint the Number and Ages of the Persons eraployed therens in 1835

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{14}{|l|}{Nomiser of Silf Factones in operation in the different Parts of the Umited Kingdom, wath the Number and Ages of the Persons employed tharen in 1835} \\
\hline \multirow[t]{2}{*}{COUNTIES} \& \multicolumn{2}{|c|}{Pastories} \& \multicolumn{2}{|l|}{Betweea delght and 17cilo 3 Enrs.} \& \multicolumn{2}{|l|}{Between Twelve and Thariees Y̌eara} \& \multicolumn{2}{|l|}{Between Thirtecn and Eighteen Yeara} \& \multicolumn{2}{|l|}{Above Eightema reary} \& \multicolumn{3}{|l|}{\begin{tabular}{l}
Total \\
Numiler of Perants employed
\end{tabular}} \\
\hline \& St Frork \& Etupty \& Males \& Pemates \& Halea \& Pomiler \& Malen \& Fembles \& M ules \& Peruales \& Malde \& Rerames \& Total \\
\hline Enctand \& namber \& number \& number \& pamber \& number \& number \& number \& number \& number \& aurober \& numher \& number \& number \\
\hline Berke Hacka \& \& \& 10 \& \({ }_{4}\) \& 0 \& 16 \& \& \& \& \& \& \& \\
\hline Racka \& 88 \& \& 17
121 \& 48
1428 \& \({ }_{3}^{6}\) \& \(\begin{array}{r}16 \\ 10 \\ \hline 26\end{array}\) \& 18 \& 41 \& 15 \& 10
10 \& 38
87 \& 187 \& \({ }^{3} \times 23\) \\
\hline Eferty \& 15 \& 21 \& 1121
162 \& 1428 \& \(3{ }^{304}\) \& 426 \& 1388 \& 18.74 \& 1747 \& 2406 \& 4,508 \& 6,138 \& 10787 \\
\hline Livon \& 15 \& \& 162

4 \& 13 \& 7 \& 194
97 \& 188 \& ${ }^{40}$ \& 460 \& 1124 \& ES6] \& 1838 \& \%,785 <br>
\hline Darset \& 5 \& \& 4 \& 70 \& 2 \& 82 \& 9 \& 2980 \& 10 \& 201 \& 47 \& $4{ }^{4} 9$ \& 495 <br>
\hline Exuser \& 8 \& \& 40 \& 13 \& 27 \& 307 \& 160 \& 838 \& 17 \& 101 \& 21 \& 201 \& ${ }^{288}$ <br>
\hline Couceater \& 2 \& \& 4 \& 58 \& 25 \& 307 \& 1 \& 832 \& 9 \& 493 \& 2.33 \& 1202 \& 1327 <br>
\hline Mante \& 2 \& \& 9 \& 4 \& 5 \& 21 \& 1 \& 25
68 \& $2{ }^{2}$ \& 113 \& 7 \& 77 \& A <br>
\hline Herst \& 7 \& \& 193 \& 237 \& 5 \& 7 \& 120 \& 293 \& 0 \& 118 \& 49 \& 249 \& ${ }^{298}$ <br>
\hline Kint \& 1 \& \& \& 98 \& \& 1 \& 12 \& 12 \& G \& 128
23 \& 432 \& ${ }_{4} 68$ \& 1118 <br>
\hline Nurfolk \& ${ }_{2}^{28}$ \& \& 31 \& 781 \& 209 \& 364 \& 408 \& 1256 \& 631 \& 1054 \& 1719 \& 3,459 \& 5938 <br>
\hline Yatthamptoa \& 1 \& \& b \& 2 \& 3 mar \& tura ${ }^{145}$ \& 10 \& 410 \& 99 \& 589 \& 135 \& 1104 \& 1250 <br>
\hline A ringhasa \& 3 \& \& 55 \& 28 \& $18{ }^{*}$ \& \& \& \& \& \& \& \& <br>
\hline 1)xlokel \& 1 \& \& 2 \& 3 \& 2 \& 9 \& b \& - 8 \& 20
3 \& J29 \& 239 \& 2 ct \& 330 <br>
\hline semiter et \& 83 \& \& 281 \& 309 \& 81 \& 125 \& 8 \& 471 \& 63 \& $3^{211}$ \& 10 \& 346 \&  <br>
\hline  \& 1 \& 1 \& 146 \& 2085 \& 40 \& ${ }^{8}$ \& 10 \& 317 \& 204 \& ${ }_{804}$ \& -431 \& 1456 \& 1.30
14.45 <br>
\hline tifrolk \& 2 \& \& \& 15 \& \& 13 \& \& 60 \& 1 \& 40 \& 0 \& +6) \& -143 <br>
\hline Waratel \& ${ }_{5}$ \& \& 0 \& ${ }_{6}$ \& 5 \& \& 23 \& 43 \& 17 \& 34 \& 3 \& 90 \& 185 <br>
\hline H ita \& 4 \& \& 8 \& 71 \& 8 \& $2{ }^{2}$ \& 23 \& 18 \& 27 \& 23 \& 64 \& 07 \& 131 <br>
\hline Whorcester \& 8 \& \& 8 \& 66 \& 8 \& 91 \& 4 \& 1498 \& 18 \& 148 \& 84 \& 423 \& 457 <br>
\hline Fort R Riding \& 8 \& \& $2{ }^{2}$ \& 5 \& 60 \& ${ }_{5} \mathbf{3}$ \& 14.8 \& 190 \& 418 \& 79
187 \& ${ }_{6} 87$ \& 231 \& 1 288 <br>
\hline Toxatm Encland \& 31 \& 23 \& 2458 \& 2871 \& \& \& 2596 \& 0546 \& \& \& \& \& <br>
\hline Scoritand \& \& \& \& \& 14 \& \& , \& 046 \& 400 \& 785 \& 10,001 \& 10950 \& 2994; <br>
\hline Irckuad \& 1 \& \& 28 \& 58
4 \& 14 \& 87 \& 40 \& 244 \& 108 \& $1{ }^{4}$ \& 285 \& sol \& $68 *$ <br>
\hline Total United Kamgam \& 239 \& 25 \& 2480 \& \& \& \& \& \& \& \& \& \& <br>
\hline \& \& \& \& 10.s \& 252 \& 173 \& 3106 \& 08.5 \& 4114 \& 6043 \& 10 tes \& 20.64 \& 30032 <br>
\hline
\end{tabular}

Staterest of the Number and Power of Silk Faetomes in operation in different Parts of the Unted Eurgdom, with the Number and Ages of Puons emplojed therem, in the lear 1839

| Mitils <br> hitils at work Mally Lapy | Evalasin |  | Wates |  | Scorthuv |  | Imemasd |  | USItED Kinadom |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | nurser 203 2 k |  | number |  | number |  | nuncter |  | $\begin{gathered} \text { mun leor } \\ 2608 \\ 23 \\ \hline \end{gathered}$ |  |
|  | Engraes | Horse 1 umet | Engintar | Horse 1 gevr | Engmata | Flarge Powir | Eagincs | ( $\begin{aligned} & \text { Homsta } \\ & \text { Power }\end{aligned}$ | Engines | Horse Power |
| Steara power th wht boger | ammber <br> 2nt <br> 119 | number <br> Niss <br> 9$\|$ | Dumber | number | panter | ${ }_{\substack{\text { anmber } \\ 148}}$ | stamber | mamber | aubater 20 109 | $\begin{gathered} \text { number } \\ x+57 \\ \sqrt{22} \end{gathered}$ |
| Prusov Ev | Matin | Fecraler | Males | Prinalce | Malcs | Cemale | Nake | Pewntes | Males | Femalas |
| Un let tojeare |  | - unbir | 4umber | Lumber | $\underset{3}{ }$ | number | number | 4utaber | Duturay | autaber |
| 10 to 11 | 768 | 1194 |  |  | 3 | 15 |  |  | 7 Ma | $1 / 68$ 1100 |
| $11 \quad 12$ | 43 | 18018 |  |  | 4 | 13 |  |  | 17 | 1 239 |
| $12 \quad 13$ | $\sim$ | 37 |  |  | 5 | 35 |  |  | 757 | 1564 |
| 1314 | 105 | 1055 |  |  | 43 | 6 |  |  | 10.88 | 1 Nas |
| 14.15 | $N$ | $1{ }^{187}$ |  |  | 15 | 4. |  |  | 203 | 1710 |
| 15 15 | 473 | $1{ }^{7}{ }^{\text {a }}$ |  |  | 14 | 47 |  |  | 497 | 119 |
| 1717 | 348 | 1313 |  |  | ${ }^{8}$ | 80 |  |  | 406 | 13.3 |
| 17 is | 141 | 14 dm |  |  | 11 | 44 |  |  | 354 | 1504 |
| 13 1\% | $2 \times 19$ | ${ }^{1} 469$ |  |  | 3 | 48 |  |  | 1911 | $14 \% 7$ |
| $11 \%$ | 218 | 120 |  |  | 8 | 43 |  |  | $95 \%$ | 173 |
| ${ }^{4}{ }^{21}$ | 250 | 113 |  |  | 3 | 28 |  |  | 73.4 | 1148 |
| 11 and upwards | 3311 | ¢ 701 |  |  | 100 | 101 |  |  | 3545 | 5 ¢02 |
| Tural | 1064y | ${ }^{2} 8843$ |  |  | 216 | 647 |  |  | 104063 | 23,370 |
|  1 an : |  | 10 |  |  | 70 |  |  |  | 34 | 273 |

The declared value of British manufactured silk goods exported from the Umted Kugdom in each jear since 1820, has been as follows -


It is, perhaps, not the least surprising of the effects which have followed the tot il alterition of our system in regard to this manufacture, that this country uow regularly evports silh goods to a considerable value to France, these exports amounted, in

formung nearly three fifths of the exports of those goods made to the whole of Durope The most considerable part of our export of silks is made to our North American Culomes, the West India Islands, and the Umited States of America

As Account of Sulks and Rubbons (separately) mported from July, 1826, to 1830, melusive

| 600 Ds | SILK MANURACTERES JMPOKTED INTO TRE ONITED KINCDOM FOR HOHE CONSDMPTION |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prom the 5th of suly $1526$ | 1887 | 1388 | 1820 | 13\% |
| Silwa or Butars | libs. 0x. | libs 0. 0 | lus 00x | Ilis. er. | Hhe 08 |
| Silk or sat ${ }^{\text {St }}$ | 90298 <br> 7642 <br> 18 | 38,549 20038 |  | 64.6123 | 614176 |
| Gauze | 520338 | 5305 | 4000 | 2005: 栲 | 302153 |
| - in ribhony | 3017 | 18210 197 | 219113 | 20032 | 3 Ma |
| Crape | ${ }_{3}^{504368138}$ | 16381 | 24 4 <br> 34 13 | 29768 74 | 2504 |
| Velvet | $\underset{62}{3,518}$ |  |  | 12,743 D | 14,8017 6 |
| libboga embossed or fig aroct with veivet | Not entered uniet to fodenominalua antil the |  |  | 3 3172 | 5093 |
| Papes 6ilk net or tricot |  | 983 |  | 312 | 1212 |
| Stik mised with meta! | $\begin{array}{r}3314 \\ 54 \\ \hline 1\end{array}$ | $\begin{array}{ll}533 & 104 \\ 220 & 13\end{array}$ | $\begin{array}{ll}519 & 7 \\ 145 & \\ \end{array}$ | 403 124 | 1 B 7 |
| Tatel colered by weight. <br> Plain silx lace of wet palled tulto tquare yardin. Afolimary rom turimus or caps $\qquad$ hats or boonets <br> - dreases | 46301 14 | 118.378 | 164309 | 121.55134 | 143,370 84 |
|  | 40,6764 | 1243834 | 1710051 | 109724 | 114.9314 |
|  | 118 | 3, 6 | 998 | 397 | 30\% |
|  | $4^{118}$ | 428 | 414 | 539 | 538 |
|  | 44 | 413 |  |  |  |
| - at value tikchareat ralat |  | 50 12 ${ }^{5}$ | ${ }_{13} 100$ | fat in | $\underset{151}{5} 4$ |
| particularly enamerated | 2146350 | 34,128 910 | 7718908 | 85838 138 | 419731510 |
| Stixs of Impla |  |  |  |  |  |
| Bamblonama rowels and antit bendtereticefo piecon | $\begin{gathered} \text { Iba } \\ \text { sorpope } \end{gathered}$ | Stis | Iba ${ }_{28}$ | The 465 | tos 70.3 |
| Sitike abd crapes in plicees. so | di, 754 | 18150 | 15577 | 10,164 | -9\%3 |
| Crape blawle sarfo, gowu preces, mad handxerchipfis No. | \% 770 | 24200 | 4789 | 1939 | 17680 |

Qoartitics of Silk (Manufactures of Europe) Imported nnto, and Re-exported from, the Unted Kingdom

| COUNTRMES | 1831 | 183\% | ISS5 | 183 | 1835 | 1836 | 13 arat | 18588 | 1839 | 1846 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| German | $1 \mathrm{bs}{ }_{189}$ | ibs | 16: 11 | Lbe ${ }^{293}$ | libs ${ }_{7}{ }^{\text {a }}$ | Hhs 1201 | 1ba, 30 | 3ba $1100$ | $\operatorname{liss}_{i \geq s t}$ | Ibs 9,009 |
| 1 Mallpad |  |  | ( 5504 | 610* | 4788 | 0 con | 18,433 | 19, 10 S | $177+0$ | 17 76 |
| Belc um | \% 8,243 | 6,342 | ( 169 | ¢934. | 581 | 437 | 18 y | 1177 | ( 6.23 | 1007 |
| Fipance | 149897 | [46, 605 | 1491969 | 175,49 | 148, 772 | 179877 | and 723 | 344613 | 265, +3 | 26747 |
| Other canntrica | 709 | 401 | 2800 | 1019 | 1 5061 | 565 | 749 | 555 | 4,354 | 30 |
| Total impor | 1598832 | 254 334 | 157990 | B3, 8 \% | 17545 | 10109 | 182, 3531 | 230,933 | 2-6,331 | \$21041 |
| Total nteexportod* | 9205 | A, | 16,139 | , 11 | ,0791 | 4 33 | 0402 | 1725 | $21 \mathrm{n} / 4$ | 46, as3 |
| Total Quantates rotained for howe omathmption to the Gnted Kitgion | 159475 | 558 | 14285 | 166261 | 1608 $0_{0}$ | 180 ofer | 172.8001 | $247 \mathrm{COC}^{4}$ | 250,85, | 243,246 |

[^17]Qoanturies of Iadenn Silk Goods (Bandannas, \&e) Imported anto, anci Re-exparted from, the Uuted Kingdom.

| COUNTRIBS | 1601 | 183 | 1633 | 1831 | 138t | \$856 | 189 | 1888 | 1835 | 1846 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Totas mparted | Piegen | $p_{1 \psi 10 s}$ | preeen\|l| | picx | ctecel | pleted <br> 3.106 |  | preces <br> at mp | $\underset{\text { siocu } 182}{ }$ | $\begin{aligned} & \text { preves } \\ & 80 s / 17 s \end{aligned}$ |
| Rusom | 23 |  | 303 |  | \$72 | 1813 | 1159 | 1128 | 8\$ | 1603 |
|  | 10357 | 14752 | 16, 41 | 2) 117 | 11.71 |  | 3130 | 320 | 3049 | 34.190 |
| If ifand |  |  |  | $4 \mathrm{con}^{2}$ | 121 | 4 sut | 729 | $23^{3}$ | 7 m \% ${ }^{\text {a }}$ |  |
| Hutic | ] 128 | 2041 | (12312 | 14 | 2305 | 14211 | $19+10$ | -2, 061 | 1049 | 13102 |
| Frotice | 3.95 | $24.5]$ | * 30 | 64,56: | 960409 | 9194 | 14.4 4 |  | 145141 | L83,317 |
| J ertusal | 434 | 236 | 27 +10 | 2 y 60 | 8 5ing | H 3 | $5 ?$ | $1{ }^{1} 5$ | 64 | 1154 |
| Spain is tho Balearec I lands | 173 | Q .int | 0783 | $8{ }^{8}$ | 11454 | $81 \times 3$ | 8 sul | 9449 | 12 czi | 10044 |
| Eibraler | 415 | 746 | 455 | 41598 | 1318 | 1147 | 12 1818 | 30, 787 | 38 22 | 39) 4.58 |
| 1uts atat ( | 8 8t | $10^{1} j F$ | 11.15 | 13 t.51 | 12118 | \$259 | $0_{4} 3_{4} 5_{51}$ | 12917 | $101+5$ | $7 \quad 17$ |
|  | 1858 | 1 \%e] | $1{ }^{100}$ | 187 | $2{ }^{2}$ | \$ 3, 308 | 401 | 3351 | 1 5 ? | ${ }^{3} \times-3$ |
| Turhey | 12 | $1{ }^{1} 8$ | 14013 | + 35 | 174 | 84. | $0 s$ ? | ${ }_{13} 374$ | 1584 | 3.07 |
| WLit in ' dest of Afrex | 1,40\% | 1 13 | 2 tild | 1430 | $20 \times 5$ | 2,863 | $215+4$ | 214 | 4819 | 4315 |
| Enyt in in ( mpany* Teme torlath fition |  |  | 70 | 37 | 37 |  | 11 |  | 11 | 025 |
| Brithos BC thements in Aus Tral a |  |  |  | 1 | G7) |  | 6 | 1922 | 30.30 | 010 |
| Enin th worth Arauricati Coho |  |  |  |  |  |  |  |  |  |  |
| Dies | 4,052 | 1037 | 12,008, | 4,735 | 5071 | 9,819 | 75002 | 4.560 | 11949 | 13275 |
| Brtitulis ext Indies | 5,351 | 4,110. | 4871 | 50.48 | 10.18 | 1575 | 13804 | 12832. | 15,570 | 21103 |
| $\mathrm{H}^{\text {cta }}$ |  |  |  | 50 | 275 | 155 |  |  |  |  |
| Cuba nad other Porlapa 5 wot 1 ue |  |  | 98 | 937 |  |  | 1 mon |  |  |  |
| 1 natuct Slat a of America | 18.45 | [4, ${ }^{2} 3$ | 10.31 | 2 2, 14 |  | 9040 | 92070 | $27+15$ | $1+100$ | 062 |
| Mea cos | 10.08 | $\underline{2} 0$ |  | J \%19, | 3 420 | 407 | 2742 | form | 0 - ${ }^{4}$ | 1\%)167 |
| Coshtar | 50 |  | 90 | 109 | 479 | 310 | Sf0 | 1310 | 3141910 | 111 |
| Erazal | $1 \div 1$ | 2954 | 487 | 5 tos | 62408 | 11004 | 4576 | 11 184 | -3.9 | $1 \mathrm{l}+48$ |
| Slatea tho Riode la flata | 410 | 1157 | 20 | 10.6 | 4.49 | 4.337 | 504.5 | 751 | 13005 | 191.83 |
| Chile |  | 1208 | 17.3 | 1340 | 10.48 | 610 | 3 c 48 | 3,402 | 11 ¢as | 11100 |
| $\mathrm{P}_{\text {tra }} \mathrm{i}^{\text {a Guernaey Jeren y Al }}$ | 889 |  | 555 | 100 | 415 | 569 | 151 | 16 NL | + *5, | $\rightarrow 36.1$ |
| I 1 ot Gucrase J Jersey al <br>  | 14.50 | 37 m | 288 | 2,23\% | 5 Nz 2 | 10 | 08 | 212 |  | 11 |
| Ofuct finger | 607 | $\bigcirc 10$ | 6tt | 1083 | 2934 | 4.354 | 3000 | * 55 | 210 | 058 |
| Toril remexport | 100,337 | 107,16 | 175314 | 178238 | 280910 | 220735 | 3h, 515 | 638 | 10 | 493767 |
| Toral quatilites retanard is r \| bunw consumpuon in the |  |  |  |  |  |  |  |  |  |  |
|  | 301623 | 830 | 1) 4,804 | 108670 | 162.827 | 130014 | 13484 | 8414 | 112830 | 100838 |

Quartixies of Indan Crape Imported into and Re exported from, the United Kingdom, from 1831 to 1840

| 1MPCRTFT ADD RE LX: OltTHD | 151 | 1838 | 1833 | 1838 | 1835 | 1846 | 18.37 | 1838 | 1809 | 18.40 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 70T4L amparthed | pice |  | 18 cosen | Plecus | ple $\begin{array}{r}\text { e } \\ 37\end{array}$ | $\begin{aligned} & \text { puptes } \\ & 142 \end{aligned}$ | $\begin{gathered} \text { pucest } \\ 1 \neq 2 \end{gathered}$ | picees 115 | $\begin{gathered} \text { preecs } \\ 184 \end{gathered}$ | plences $\$ 70$ |
| Torxic ft csported | 878 | J70) | 510 | 83 | 298 | 201 | 312 | 58 | 44 | 281 |
| Jitis pungtaita 5 tuined for tome ean wasplish in <br>  |  | 43 | 46 | 35 | 110 | 194 | \# 7 | $\$ 1$ | 110 | 13 |

Chedy to North and Sauth Amence West ladiea ond Frutue
Vinace of Iodaan Crape Shawh, \&e Imported unto, and Re exported from, the TTuted hingdon, frem 1831 to 1840

|  | 1833 | 1872 | 1338 | 1884 | 1835 | 1896 | 1837 | 1838 | 1837 | 1810 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I what timparted | $\operatorname{mon}_{n+1}^{n+1}$ | $\operatorname{mumd}_{2}$ | $1035$ | $\begin{gathered} \text { muxiber } \\ 43 \end{gathered}$ | $\underset{44}{ }$ | $\begin{gathered} \text { number } \\ 3119 \end{gathered}$ | $\begin{aligned} & \text { sur ber } \\ & \text { It } \\ & \hline 14 \end{aligned}$ | number 1074 | $\begin{gathered} \text { Bumpler } \\ 797.3 \end{gathered}$ | $\begin{aligned} & \text { number } \\ & \text { Bkobe } \end{aligned}$ |
| Totad IL expered | 7414 | 15 lus | 171 mi | 6505 | 715 | 4 m 7 | $10^{3}+5$ | $11+7$ | 16192 | Atad |
| ToTAT If bt: uet ined <br>  1h of 4 \#t |  | 1918 | 443.2 | 90, | 2740 | 368 | 44 | 911 | 305 | 480 |

[^18]Quantitims of Indian and Chunt Taffeties, de, Imported moto, and Re exported from, the Unated Kungdom, from 1831 to 1840

| IMPORTED ANO RE EXPOATED | 1831 | 18882 | 1803 | 1835 | 1835 | 18.35 | 1的T | 1838 | 1839 | 180 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | pilece 1093 | $\begin{gathered} \text { piaced } \\ 6046 \end{gathered}$ | pleces. 3543 | pieces. 150: | piecer 2745 | piccea 3401 | $\begin{aligned} & \text { pieces } \\ & 18.211 \end{aligned}$ | $\begin{aligned} & \text { pieceres } \\ & 12,650 \end{aligned}$ | pleaty <br> 1776 ! | pıccet |
| Torab, re-sxportedn | C,383 | 5058 | 64.2 | 43s1 | 4831 | $13 \% 4$ | 7488 | 14739 | 10,287 | 1 3104 |
| Toras gunutition rebalond for hosbe manameption in the Uoited Kungdurt | 5 | 2430 | 4853 | 2 AgO | 1R19 | 1120 | 1387 | 3789 | 1912 | 1290 |

Quantiniks of Manufactured Sulks Imported and Entered for Congumption in the United Kitugdom

| DE8C\%IPTtiN |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 193) | 10.2 | 1843 | 184\% | 1045 |
| Mantifatigere of Eymapis SHIF monnfactared goodt vis - | guantity | quantuly | quantity | quantily | quandxy |
|  | 239884 | 281,072 | 251,511 | 274859 | 203005 |
| Gnuwe aficiguze flbbast do- | J188 | 6,095 | 13,381 | 18209 | 3700 |
|  | 869 | 357 | -6a2 | ${ }^{89}$ | ${ }_{4} 9$ |
| Graper do do |  | 2.950 | 8,807 | 1,518 | -895 |
| Teifet and 7ai er nbluong dol | 209848 | * | 18.886 | 15,174 | 4 31 |
|  | 851 | 904 | 764 | 635 | 1.49 |
| Paucy aild net, or tricat do <br> Sill mined with mets!  | 3,348 316 | -113 130 | 3,4838 | +18 | 512t |
| Taral entered by waight Ikm | 876,539 | 260,007 | 292, 291 | 114,058 | 34141 |
|  | J,460 | 311 | 1145 | 24820 | 253 |
| Millinerg wiz - |  |  |  |  |  |
|  | 744 184 | $1 \begin{aligned} & 1855 \\ & 1565\end{aligned}$ | ${ }_{1}^{685}$ | 1 1081 | 1.037 |
| Dremen ${ }^{\text {dis. }}$ | 830 | 39 | 3 sa | 493 | 363 |
| patercs at raluo | 38 | $\theta$ | 39 | 85 | y37 |
| ginnulactures of wilk or of aik and other materfinta not partucplarly Epamersted | 148863 | 119,989 | 132, 307 |  | 22 135 |
| Manufartures of India tiz |  |  |  |  |  |
| Bnndapnay romkle and mik handzarchiets pieres | 378286 | 316.740 | d063 38 | 568, 200 | 754170 |
| \$11is aud crapes 12 proces | 34828 | 2) sug | $25 \mathrm{M} / 2$ | 20102 | 21038 |
|  | $11+22$ | 278 | 5, 3 31 | 12,888 | 7374 |

Quantitise of Manufactured Sulks Imported and Eatered for Consumption wa the United Kingulom-(contanteed)

| DESCHEPTION | QUANTITIES ENTERED FOR CONSUMPTION |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 184) | 1812 | 38N3 | 1844 | 1848 |
| Mandiactupgs of Butores. <br>  | gunataly | quautity | nuactify | quataticy | qusbuty |
| Silk of satue and ailk, or metio ribbons bis | 218005 | 207 438 | 234,815 | 283, 5 | 24.234 |
| Gauxe tud glake ribbony | 0 000 | 413 | S03t | 1789 | 34,694 |
| -- tixatie dowerds dive | 863 | 4 | (6) $5^{4}$ | 39 |  |
| Crape do do | 8 vol | 3,30ns | 2601 | \$357 | 375 |
|  | 17006 | Itary | 2 *al | 147t | 2lis |
|  | 138 | 941 | 31 | 617 | $1+1$ |
| F pey wilk net, ar triont do | 3.834 | $3{ }^{0 \cdot 2}$ | 36.40 | 4121 | $2{ }^{2} 88$ |
| Suli mined with metal da | 108 | 229 | 174 | 243 | Lud |
| Toral eaterod by mergit | 244902 | yar 4 (6) | \$0 873 | 205125 | 317538 |
| Plam mink lace or net called kily equare yardiay | 881 | \$50 | 1135 | 1353 | 9012 |
| Sinfuety tike - |  |  |  |  |  |
| 1 urbans or cappr buther | 315 | 24\% | 363 | 54 | 03 |
| Hints or banapte da |  | $5 \times 6$ | 18 | 913 | 13 |
| Brets an mal | 14 | 142 | 1.4 | 314 | $27 \%$ |
| Sur nod as vilue ${ }^{\text {che }}$, | $3{ }^{3}$ | 0 | 32 | BS |  |
|  uot particatarly macterased | 158057 | 10. 651 | 11340 | 175208 | $\cos ^{4}+1$ |
|  |  |  |  |  |  |
|  | 6) 804 | 44.58 |  | 128718 | 17 464 |
| Bilk and crapes io plocer | 1343 | 1398 | $\times 2.75$ | 1488 | 4 is |
|  | 118 | 103 | 1,2 | 28\% | 1088 |

Under the taruf of 1842 the manufactured silks entered have been in 1846 and 1847 as follows

Srus Manoracteres－Entered under the Tanff of 1842

|  | \＃M ORTEか |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1946 | 1847 | 1845 | 18－4 |
| Suls Ananifactives of Earope Fiz．－ ilk or aztia plain | yousag． $26,385$ | plecest | Flacer <br> H306 | pinects |
| Gefigared or brocaded | 14.498 2.188 |  | 5657 |  |
| Gatie plaim | 2,148 $1+17$ |  | 1218 |  |
| Crape plino | 1487 184 | Not clastad as befor： | 74 69 |  |
| －ficuced | 3 |  | 3 |  |
| Vorver plin ${ }^{\text {a }}$ | 2748 |  | 1035 |  |
| －Gigured | 449 |  | 364 |  |
|  |  | $57 \% 78$ | 187103 | 100，312 |
| Datio | 348042 | 356 | Tree | free |

The imports of silk goods have increased very largely since the reduction of the duty in 1846 The above tables contan the particulars of the quantities entered under the tanff of 1842 ，in the year 1845，and for that portion of 1846 during which it continued in force The following table shows the quantity im－ poited under the taritif of 1846，duning the remainder of that year－

Silk Manofactunes－Entered under the Tanff of 1846

| DESORJPTIOH |  | HONE CON syay TiON |
| :---: | :---: | :---: |
|  | preme | prores |
| Salk or entin brosid utufit | 12187 | 11029 |
| $\cdots$ Tiblotay | 18.6 践T | 1950 |
| Osuze or erspe broad stuff | f）， 25 | 5，620 |
| －－ribboci | 62， 260 | 34730 |
|  materigla in lesa proportion than onv balf of the fabric vis broad atatia | 29 | 16 |
| $\cdots$ nibloms | 1946 | 2193 |
| HuFtt vit－ |  |  |
| Wroud tafte | 新794 | 35616 |
| Pribloma of volvet or ailk emboasmil wha elret | 14411 | 14738 |

The two tables together give the following companson－
Silk Manupacturee
PEREDODS
thowing an increase in 1846 of upwards of therty per cent，although the lower friff us an operation onls about eight months of the whole geat The follow－ $1 \mathrm{H}_{\mathrm{g}}$ show the mports，\＆ ，of manufactured silhs for the year 1046 and 1847 －

Stux Mantracturbs-Eatered moder the Tarfff of 1846

| DPSCEIPTENM | IM 70\%T县 |  | FOMECONSUMPTION |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1846 | 1647 | 18.44 | 1847 |
|  | plewat | plecres | pieces |  |
| Etice or trita broad stafis | 372087 | j159879 | 110 24 | [3, 321 |
| Gatw mbope | 186, ${ }^{3} 29$ | 19: 247 | 195,04 | tis 309 |
| Gatres ar crapo bratid eturits | 6984 | 5508 | 51020 | 3060 |
| $\qquad$ rithons <br> Gause mixelwith tisk satio otaty other | 31,900 | 42791 | 84,770 | 41 sm |
|  materials in less propartion thatin one tupif of the tionte ofte biosci wenfit | 78 | 71 | 16 | 9 |
| $\qquad$ ríabonas | 1,001 | 2000 | 218 | 302 |
| Velvet ris, - |  |  |  |  |
| Broad intoffa <br> Dibbond of reloet or able, emboned with | 27798 | 27450 | 20654 | 25, |
| relvet of relyot ar anic, embersesed with | 14404 | 14845 | 14, 33 | 15,8,14 |

Declarfd Value of British Sulk Manufactures Exported from the Couted Kingdon

| OHENTEES | 1831 | 1838 | 164 | 1645 | 1846 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | * | 511 | $\approx$ | $\Sigma$ |
| Rataba | 49 | 1238 | 1111 | $2,025$ |  |
| Soredan | 191 | 85 | 9 | 2838 |  |
| Nerray | 2518 | 408 | 80 | 420 |  |
| Dethnark | 143 | 288 | 96 | \% |  |
| Germany | 19,5009 | 20,935 | 18970 | 36,08T |  |
| Holland $\}$ | E621 | \{ 66.980 | 9477 | 21453 |  |
| Butguma 3 |  | 2.17473 | 14,778 | $44^{126}$ |  |
| Frabco | 43118 | +5019 | 48,907 | 13973 |  |
| Poitugal Proper unal Tstards | 4760 | 11,500 | 1459 | 4419 |  |
| Spain and the Butearic Inlonde? | W4 G13 | 4883 | 6,944 | J 80. |  |
| Gibraltat | 5088 | \$63 | $7 \times 11$ | 7.438 |  |
| Iraty and ite litalinn Istamule | 7675 | 1450 | 5 far9 | 750 |  |
| Malte se | 777 | 108 | $\pm 113$ | 1670 |  |
| Tutkey | 9745 | 3 El | 791 | ${ }^{2}$, dit |  |
| frypt, Act | 125 | t5 |  | 1. 206 |  |
| Heviercton tof Alrion | 506 | 4.7 | 189 | 4.355 |  |
| Cope of Gowl Fiope | 0.907 | 8931 | 13 \% 10 | 4,001 |  |
| Mautilug. | 178 | 2,473 | C,144 | 1491 |  |
| Ebel India Company a Tertitorete and Coylon | 64\%1 | 8.95 | 18,35\% | 13.110 |  |
| Sumatra jave nid other Iulanda for tue inclonit seat | \$500 | 830 | 3150 | 1905 |  |
| British Eocttemethe in Anturalia | 17 O7S | 3) 635 | d7 4ive | 3.187 |  |
|  | 93.098 | 8. 179 | 135,430 |  |  |
| $\rightarrow$ Weert Imblus | 27,504 | 44, $2+12$ | 50,230 | 2486 |  |
|  | $4{ }^{4} 4$ | 889 | 190 | 108 |  |
| Cuba and othor Porema Went In lies | 11524 | 8,561 | $1380{ }^{\circ}$ | 05014 |  |
| Lpituil Staleg of Amerioa | 24.985 | 5370401 | 574)49 | 2t8 3i |  |
| Menico | 13543 | \$ 134 | 124.48 | 6018 |  |
| New Granade tke | 4403 | 4245 | 3806 | 9416 |  |
| Bras 1 | 2348 | 29135 | 255 | 14921 |  |
| States of the RJoditut take | 13.319 | 18,39I | 31691 | 19300 |  |
| Cbilt | 3615 | 3 自87 | 30 as, | 0093 |  |
| $p \mathrm{para}$ | 5. 381 | 8 , 5 5 | $25,4.5$ | 111124 |  |
| $\qquad$ <br> Jolet of Guern ty Jerary A! dernay mal man (fareiga. yondr) <br> Ohber places | $\begin{array}{r} \text { if } 145 \\ 29 \end{array}$ | 11419 805 | 2883 471 | 3 SH |  |
| Torsil | STanci | 518 780 | 752.648 |  |  |

Foneigy and Colonal Silk Manufactured Goods Imported, retained for Homo Consumptoon, and Exported from the United Kıogdom


Britise Manafactared Sulk Goods Etported from the Urated Kinglom in the Years 1845 and 1846


Britisy Manufactured Sulk Goods Exported from the Unted Kingdom in the Years 1845 and 1846-(rontinued)


Paices of Sulk, per Pound, on the Ist of January during the following Ioars, th the London Marbet.


Sheep and Sherp s Wool - We have examined all the information which we could procure with regard to the products of Inda, solely with reference to the supply of the raw maternals which we require from abroad, and although the United Kingdom has, from the remotest periods of wheh we have any account that can be relied upon, yelded wool in great quantities, even for exportation, yet the supples which are demanded for one of the greatest branches of our manufactures has been annually increasing, and, as cheap labour is abundant. in Inda, it becomes a question well worthy of consideration, how far many of the higher districts are adapted to profitable sheep pasturages

It will be observed wa the following tables that the first imports of sheep $s$ wool anto England from loda appears to have commenced in 1831 Nor do the exports of wool from Inda (See Commercial Tables, pages 144 et seq) appear to bave taken place earher

The imports of sheep's rool mato the Unted Kıiggdom from Indar, and from all countries, have uncreased as follows -

| IEARS | In 1833 | Prom India. 3721 lbs | From all C untros | YEMRE | In 1833 | From lindin \$741 Ibe | From all Countres |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1939 | Indua | Anutralia * Jhen 2,577050 | $\begin{aligned} & \text { Qupntaty } \\ & \text { lbs } \\ & \text { 25, } 128973 \end{aligned}$ | 1549 | 1ndia 16s $2+41370$ | Aantralan * Ibs 575) 243 | $\begin{aligned} & \text { Quantity } \\ & 14 \$ \\ & 40,43584 \end{aligned}$ |
| 1513 | 3 21 | 351890 | 38040 C87 | 1841 | 3 Give, fat | 12.2998 690 | 60179474 |
| 1adk | 6776 | $3 \mathrm{v} 5 \times 3 \mathrm{tat}$ | 4046842 | 159* | 4, \%10 dis |  |  |
| 1.15 | 91 045 | 4210101 | 4174. 139 | 148* |  | 1733.174 | 4 as 003 |
| 163A | $100+393$ | $45 \% 545$ | C1:3497T | 1814 | 97493 | $17 \mathrm{CO2} 247$ | 650751594 |
| 183\% | $1{ }^{1}+104$ | T 0.6081525 | $4 \mathrm{~A}_{3} 30708$ | 1845 | 3,974, 8 96 | 84177317 | 75,351950 |
| $5 \times 35$ | 18.70266 | 7887423 | $53,5614.350$ | 1836 |  |  |  |
| 139 | 9103516 | 10123774 | 573 J J23 | 4847 |  |  |  |

1t With appear that in 184 a the amonat of sheep wool fopportad from India and Australin excecdod the ;ancity iraported frope ull payte of the world in lisis

Indu hns been considered a country far from being adapted to the rearng of sheep for wool Of late jears, howevel, considerable quantuties of wool have been exported from the British presidencles (sse Tables) The sheep, however, are evidently of anferior breed $\operatorname{Dr}$ Tennant says -

The Bengalee sheep is small, lank, and thin the colour of three-fourths of cach flock is black or dark gray Io Asta the colour of cattle generally is the reverse of that in India, what we term in England a herd of black cattle is here white, a flock of sheep whath at home is usually white, bere it is dark giay or black"

The quality of the fleece 18 coarse, harsh, thm, and harry No part of clothing or domestic furnture, so far as Dr Tennant had observed, is manufactured of wool, except a coarse kund of blanketing, which some of the boatmen and people in the upper distracts use during the cold season as a coverlet at aght
D. Tennant deserbes the Coromandel sheep, between Bengal and Madras, is inf.rior to those of Bengal in fleoce and carcase Their coarse han and their incompact form approach to the goat or deer Two or three may, in some places, be bought for a rupee, but absolute want only can make an Englishman rehsh the mutton

There are in Bengal sheep with four horns, two on each side of the head Thev ate a distunct breed, superiur in size, and better proportioned than the common hind

Dr Tumant says, there were five fammes of shepherds near Benares, who
possessed 1500 sheep, they seemed a partucular class, who clipped the wool of their sheep and manufacture atinto blankets

The Cabool sheep are fat, and have a larger excrescence on the rump than that of the Cape sheep-it is nearly half as large as the whole body Mr Johnson says -
"In the Mysore, one man and a dog attend to a flock of ten rams and 100 ewres
"The male lainbs are partly sacrificed, partly kept for breeding, and othere, when three years old, are eastrated and sold to the butchers
"The ewes breed at two pears old, without observing any particular season, after bearing four or five lambs, they are sold to the butcher for three months the lamb takes all the molk, for the next month a small quantity is given to the parl-thirty ewes not giving more than a quart, which is taken once a day by the shepherd It is mixed with" the mulk of the cow or buffalo The sheep are shorn twice a year Fifty fleeces weigh about a maund ( 24 lbs 6 oz ) The wool 1 g coarse, and chefly serves for making a kind of blanket In Behar the fieece werghs half a pound During the day they are pastured upon the waste grounds, but at night they are usuaily penned near the shepberd $s$ hut During the ploughog seasons they are hred by the farmers to be folded upon their fields The hire is no more than food for the shepherd
"Water is given to them twice at noon, and two hours subsequently
"In Combatore there are two varienes of the sheep, distunguiged as the Curumbar and the Shaymblana
"The mutton of this disfrict 19 described by Dr Buchanan as most excellent, and even that fattened upon grass as in grood condition, the pasture having a short and nutritious herbage
"Of the shaymblar, which is a long legged sheep, bumped somewhat like the ox, I shall take no further notice, but I would recommend the cuenmase sheep very strongly to the notice of those who are endeavouring to mprove the agriculture and the commerce of India
"It is a small compact sheep modelled very much like the Southdown, but on a reduced scale, and with a bead shaped like the Merno Its hind-quarters are particularly well formed The anmal fattens readily, and its flesh is close-grained and well flavoured The wool is thek and curly, and almost entirely free from harr The fleege is generally white, and the head black
"In Comabatore they are shorn twice a year The wool is not very fine, but crossed with rome other fiaer-fiecced kind, or even by better management the staple might unquestionably be improved
*The Jeypore sheep are large with thite fleeces, and generally black faces They are to be bought for less than a rupee each Mr Barberie, of the Hawper Steed Depot, sent some of the wool to Caicutta in 1831, and it pas then valued at eightpence or minepence per lb , being of a very low description compared with that which commands a market in England The shart expervence of Mr Barberie was sulficient to show that the fleece unproved as the anmal was better fed *
"At present in Bengal, and most other parts of southera Inda, the wool is of a very mferior quakty, deficient in that elastic softuess arising from a spiral fibre which characterises the superior kinds but having that coarse, dead feel, which arises from th straght, hary texture
"Inferior as it confessedly 18 , yet the export of wool from India, chuefly from Bombay, luas yearly mereased
"In 1833, there were only shipped 69,944 lbs but in 1837 it had increased to 2,444,091 1bs"

The prices for which Indian wools were sold in London in 1839 were-

Superior white free from gray hair soft and kind (relatively)
Fuirquality and fair to other respects
Superior mixed with yullosy or gray
Gray and low

| $d$ |  | $d$ |
| :---: | :---: | :---: |
| 10 | to | 11 |
| 8 |  | 9 |
| 6 |  | 7 |
| 42 | 7 | 5 |

"From the prices pard, with the cost and charges, it is said not to leave a profit, and from the remarks made $n$ is evident it must be mproved in quality before it can assume a firmer place un the home market *
"The remarkable improvement in the Austrahan wools is not to be,farly tested by comparing them with those of Germany In the later country, wool is grown as an exotic, in door production, the sheep being carefully housed durng a great part of the year, and the rapid dechne in the fineness, and every other property in which the excellence of German wool consists, is so great when the least neglect or undue exposure to the weather has been suffered to take place, that by one year's bad maanagement the produce of a flock 16 often deteriorated to the extent of 25 per cent
' Not paying attention to this difference of system, the earher wool-growers in Australia attempted to rase wool wheh should compete with the finer produce of Germany and faled and even bad they succeeded, would only have had a fleece weighing $1+1 \mathrm{lb}$ at $3 \mathrm{~S}=4 \mathrm{~s} 6 \mathrm{~d}$ They now have a less costly, but more marketable staple, averaging 41 lbs at $2 S=9 \mathrm{~S}$, and not unfrequently 5 to 6 lbs per fleece, but it took some years to retreve the error that had been commited at the outset $\dagger$

- To improve the fleece of the native sheep, crosses have been attempted aith imported Merinos and Southdowns, but all with more or less want of success Mr Hulse, veterinary surgeon at Mutra, thus enumerates the causes which mduced the fallure of some Merinos which came into his possession -
" 1 st There is the greatest difficulty and it is almost next to an impossibility, to get a trostworthy shepherd, and (unlike the shepherds of old) they are excessively stupid and ignorant.
"2nd The sheep must always remain housed, for if the shepherd is allowed to take them out to graze he will to a certanty allow them to mix with otber sheep, and the breed will be runed
'The expense 18 very great in keeping them always housed, and the price realsed when fat will not admit of th
"4th The lambs do not grow to the size of the imported sheep
"5th The wool of the progeny bred in this country becomes coarser, and is consequently of less value It is also essentail that the wool should betong, in order to make the best price of it, the sheep should therefore be shorn annually, but it is found in the upper provinces that sheep will not fatten with beavy fleeces, and theretore it is necessary to sliear then twice during the year, viz, about the beginning of March and middle of September, a thick fleece also retards their growth
" 6 th They degenerate not only in size (as spohen of), but in appearance Instead of the blach spots upon the face, and frequentiy upon the lege, matead of the buck lege, and brown or tan colour of them, many of the young have thick coarse legs, covered with short coarse wool in fact, in every way they lose the same appearance as was possessed by the tmported sheep
" 7 th The sun and ran, extreme heat and cold will kill them
" 8 th The suze of the mutton is not larger than what is commonly met with in Calcutta, nor would it be so large if proper attention was given to the feeding of Behat or Meywar sheep, for the Calcutta market "

The sheep of Mysore, mentioned by Dr Buchanan, yield decidedly the uool most resembling that of Enghsh growth that I have seen in 7ndaa, From the sheep being natives of the tropics, from ther compact form and from the bulk of ther fleeces, I beheve that more coult he done for the improvement of Indian wool, and the consequent increase of th expori by a careful attention to this kind ot sheep, than by any other dinection of effort

1 So luag as the pastures are scant, to give each sheep a small allowanct of gram dully

- 2 Po give them as regularly a supply of salt Its use for this purpose is notalto getice unknonn in the East but in some countres, as in Spam, it is given to their flocks it thf rate of 112 bss to every 1000 sheep in five months Mr Curwen, the late M P fot Cumberthad gase every sheep of his numerous flock about half an ounce per dam I buve lached more than one great flombaster say, that no sheep, either to flesit or

[^19]fieece, would succeed well mithouk a supply of saif' Mr Youatt, no mean anthornty, says, 'that it is the basss of every medicuse whinh really has powet over the rot and in the early stage of that disease it has often completely arrested irs fatal progress
" 3 The thind and last essentral pont I shall meptoon 15 providing shelter for the fock This can be done at a very trifhig expense, and the benefit to the general health, and to the superionty of the wool, I amotold, is only to be appreciated by those whohave compared the fleeses of sheltered sheep with those produced by sheep exposed withont any care to the full meridian sun, to the heavy might dews, and to the storme of these tropical hatitudes-a few panels made of mat hardles, supported by stout bambos stakes, and arranged in the form of a rectangular cross, is all that is required, and may be constructed in the vicinity, or in the maddle of the usual pasturage, and moveable at pleasure, for a very few rupees"

## BAITISH WOOLS AND WOOL TRADE.

Tue British legislature baving, for a long penod, probibited the exportation of wool affords an example of folly as well as of ignorance and stupidty, which experzance has established, by the extraoydnary movease of the tmportation of foreign wools It is not within the scope of the work to enter into lengthy details respecting the kinds and qualities of wools furthor than that in statements regarding Oriental commerce, and also with respect to the prospect which China may open for the sale of British woollen manufactures, and the moreasing suppiy of the raw maternal from the Cape of Good Hope, the Austrahan colonies, and India, wool and the woollen trade constitute in commerce a subject too important to be overiooked

Wool has been usually considered as long amd short wools, and these again into various subdimsions of length and fineness

Cleanness adds greatly to the value of wool, and $m$ this respect the sheep wools of Indis, hase the cotton wool, is sadd to be generally dirty $\mathbf{S p a m s h}^{\text {spool }}$ is always well washed iminedately after shearing, Eaghsh wool is usually, we beheve, washed rather imperfectily before it is shom

Mermo sheep were introduced inta England m the reign of George III, who patronsed this breed But it has been ascertaned that, though the fleece does not much degenerate here, the carcase, which is naturally ill-formed, and affords comparatively little weight of meat, does not improve, and as the farmer, in the kund of sheep which he rears, must look not only to the produce of wool, but also to the butcher market, he has found 12 his interest rather to return to the native breeds of his own country, and to give up the Spansh sheep They have been advantageously croased with the Sonthdown and others, but without crossing they were found to be unprofitable from their mferior flesh

According to the evideace taken before the Lords in 1828, and other statements, it was considered that the quality of Briash wool had deteriorated for several years This is supposed, or affirmed, to have arisen from the sheepewners beng anxious to increase the weight of the carcase and the quantity of wool at the same time Mr Culley asserted, "that the Herefordshre sheep that produce the finest wool are kept lean, and yeld $I_{\frac{1}{8}} \mathrm{lb}$ each, and if they be better kept they grow large and produce more wool, but of an
mfenor quality ' The turmp culture has contributed to a larger breed of sheep, and lessened the value per 16 of the wool Mr Fison says ("Report," p 3567,' that twenty-five years ago the weight was $2 \frac{1}{8}$ ibs a tleece, and that now it is 3 lbs or $3 \frac{1}{2} \mathrm{lbs}$ ' According to a table furnished by him, it appears that of fifteen tods, or 420 lbs of clothing nool grown in Norfolk in 1790, 200 lbs were prime, while in 1828 the same quantity of Norfolk wool only velded 14 lbs pmone), and other witnesses confirm his statenuents

Mr Luccock, in his "Treatise on Enghsh W ool,' estimates that all sorts of wool yielded by the sheep of England in 1800 at 384,000 packs, of 240 lbs a pach Mr Hubbard, a wool-stapler at Leeds, estrmates the quantity of wool produced could not, from the greater weight of the fleece, be estimated under 463,169 packs

Mr Luccock estmated the

| Nutaber of long woolled sheep in England and Wales in 1800 _-ol short-woolled dato | was | $\begin{array}{r} 41006988 \\ 14804299 \end{array}$ |  |
| :---: | :---: | :---: | :---: |
| Total number shorn |  |  | 19007607 |
| Slaugher of short noolled sheep per aunmm |  | 4221748 |  |
| Cirtion of ditto |  | 211087 |  |
| Slaughter of long woolled dh. 0 |  | 1,180,413 |  |
| Carnon of ditio |  | 50020 |  |
| Slaughter of lambs | * | 1,400 960 |  |
| Carrson of dito -- |  | 70,028 |  |
|  |  |  | 7,142856 |
| Total number of sheep and lambs |  |  | 26150468 |

In Scotland, during the last sixty years, a great increase has taken place in the number of sheep In the Highlands, many of the proprietors have transformed then estates into large sheep farms The Chevot breed of sheep have, under the term of long sheep, from their long wool, supplanted the small blackfaced heath breed

According to a general report on Scotland, m 1814, the number of sheep was estumated at $2,850,000$ Suce 1814 the number may be estrinated at one-thrd more, or altogether at about $3,750,000$

According to Mr Wakefeld, there was not (when he wrote) a sungle floch of breeding sheep in the whole province of Ulster -("Account of Ireland, ' vol 1, p 341) And though there may now be considerable flocks in Roscommon and other counties, we beheve that if we may estamate--(though in Ireland it is difficult to ascertan any approxumate estrmate)-the whole number at probably not more than $1,600,000$
$30,(000,000$, or $10,000,000$ less than Dr Colquhoun estimated (a very uncer tun authonty) for 1812 , mas probably exceed the present number of sheep an the Trited Kirgdom

Fiunt 1660 down to 1825 , the export of Britush wool was sti ictly prohibited Mi Twhismith, m has " Merooms of Wool," exposed the mjuatice and absurdity of this unwise and most arbming system Ile clearls proved that if manufactuins exind by preventing the exportation of wool, this was more than counter-
balanced by the loss to the agneulturists Bat, in despite of Mr Smith, the prohibition of the exportation of wool was contanued untal 1825

As late as the year 1802 the importation-of forengt wool mato Great Bntain Was free of duty In 1802 a duty of $5 s 3 d$ a cwt was imposed on sll foreign wool imported In 1813 the duty was raised to $6 s 8 d$, and in 1819, Mr Vanstttart rased at to 56 s a cwt , or $6 d$ per lb i The use of foreign wool had become indispensable for the manufactures, and the imposition of a duty of fifty per cent caused the manufactures to suffer for a considerable penod after

In the evidence taken before the Lords' Committee on the subject of wool Mr Gott, of Leeds, informed the committee that he used only foreign wools, and that, in certain descriptons of cloth, "he could not make an artacle that would be merchantable at all for the forengn market, or even for the home maxket, eacept of forengn tooal"
"Can you give the committee any information with respect to the competition that exists " ${ }^{\prime \prime}$ "I think the competition between forelgners and this country very strong In some instances the forergner has, probably, the advanage, and in others the superiority of the Britush mauufacture, I think, has greatly the arvantage, that would apply, I should say, particularly to the fine eloths of Great Brtain compared with forergn clochs, in some descriptions of low cloths, the foreggaers are nearly on a footing, and some mastances, perhaps, superiar to us"
"Speakng of the finer closhs, is the competition such as to render an additional duty on the mportation of foregn wool hikely to injute the expori trade "-" $I$ have no doubt, speaknty on my outh, that t would be fatal to the forergn cloth trade of the country I would say furtber, that it would be equally injurions to coarse manafactures of all krods made of Enghish wool The competiuon now with forengaers is as nearly balanced as possible; and the disturbing operation of attacks of that description would necessarby enable thefforenger to buy his wool cheaper than we should do it in thrs country the result would be, that forengners would, by such a premium, be enabled to extend thenr manufactures, to the exclusion of Brituh manufactures of all deserptions"

On beug asked whether, in his opinon, the price of Britash wool would have been higher, had the duty of $6 d$ per lb on foreign wool been continued, he replised -
"My opioton is, that the price of Britisb wool would have been far less at this tme"
The duty was aftermards, in 1820, reduced to id perib on foreign wool, and in 1845 Sir Robert Peel abohshed the dity

Total Imports of Sheeps' Wool into the Dinted Kingdom since 1800


Quaxtities of Wool Imported during the followng Years -

\begin{tabular}{|c|c|c|c|c|c|c|}
\hline WHICH EXPORTRD \& $1 \$ 10$ \& 198* \& 1888 \& 1830 \& \multicolumn{2}{|l|}{Rates of Duty Chatgeabla} <br>
\hline Rumiza Exedor and \& libes \& Hs \& lbs \& libs \& Outil Jiny ${ }^{\text {a }} 1803$ \& free <br>
\hline Norway \& 59603 \& 75814 \& 1 data 900 \& 90983 \& From Jaly 51803 to \& <br>
\hline Dermark \& 351741 \& 15527 \& 54t 813 \& 17:17 \& Jane 1805 \& 5 sd Hid per ctit <br>
\hline Prusita \& 12305 \& 107101 \& 131100 \& 713 245 \& - Juce 1 1804 to \& <br>
\hline Cemmay \& 7\%R R24 \& 5113482 \& 43 noct 1 \& 9603858 \& April 51 lags \& 5 iod <br>
\hline The Nuelieshands \& 4,873 \& 1 taH \& \% 650215 \& 9545 \& - Apria 9 g 1800 to \& <br>
\hline Pramel \& \& 330980 \& 4300673 \& 451003 \& Hay 10, 1806 \& 5. 110 E 20ths <br>
\hline Purtugal \& 3 D19 Ot \& 95187 \& 95.303 \& N(1) 142 \& -May 10.1806 .0 \& <br>
\hline Spair at id Cannies \& 9952467 \& 3 2.412 289 \& 8900477 \& $10 \pm 3$ sth \& Juty 5180078 \& 6s 4 d 2 l 30ths <br>
\hline Cal maltar \& 31, 1983 \& 3,859

2H15 \& 319284, \& 9461 \& April fi ${ }^{\text {a }} 18009$ to \&  <br>
\hline M Ita \& 40940 \& 5 ysa \& r219, \& 9481 \& Mprin \& fod percwt <br>
\hline L) 180 Lolabele \& \& \& 25048 \& \& July \%, iml \& 73 1td <br>
\hline Turkey \& \& 160584 \& 518414 \& \&  \& <br>
\hline Marmex \& \& \& \& \& Oet 1819 \& 1d prer 3 <br>
\hline Terg y mod tan \& 11,407 \& 19015
8045 \& 12205 \& 7745 \& Of Britush Pousenton \& Uf Poreigr Countres. <br>
\hline Neve H ll ma mad Vam \& \& \& \& \& \& <br>
\hline Dlem $\pi$ Land \& 117 \& 99115 \& 303.985 \& 1987309 \& Prom October 101810 \& <br>
\hline Cepe or Gond Hope \& 29717 \& 13,669 \& 87619 \& 33.407 \& to Jaduary 51825 \& <br>

\hline Brit th North Am rycan Gol mes West \& \& \& \& \& | Id jer It |
| :--- |
| Jinduary : laza | \& 1 per ib <br>

\hline Ild ef ard Lartad stris of Amexics \& 411 \& 1177 \& \& \&  \& <br>
\hline Mexica \& \& \& \& \&  \& <br>
\hline Perus \& \& \& 313 \& 5741 \& ta Denember 10 158, \& <br>
\hline Chil \& \& 11798 \& \& \& 1 d per lt \& 3 d <br>
\hline Rito de la Plate and Hrsail Priz \& 116173
23637 \& 73036 \& 331302 \& 20380 \& -Deseriabiby 1018 gya to July 51895 Id mer 16 \& <br>

\hline Torst low irt from fursign parta \& 1014 137 \& 9\%84880 \& 43,795 281 \& 5 5 , 13059 \& - July 5 tand iree \& $$
\left\lvert\, \begin{gathered}
\text { di per lb on } \\
\text { twow not of tbe } \\
\text { value of la }
\end{gathered}\right.
$$ <br>

\hline Quant: atemitued for bome coosempoption \& \& 7691778 \& 41101630 \&  \& \& $$
\left\{\begin{array}{l}
\text { Id per it on } \\
\text { whoin of the }
\end{array}\right.
$$ <br>

\hline Amount of dinty we clited \& $$
3 x^{5}{ }^{5}+3
$$ \& \[

$$
\begin{gathered}
\mathbf{E} \\
81.060 \\
\hline
\end{gathered}
$$

\] \& \[

{ }_{163} \frac{5}{769} is \frac{d}{71}

\] \& \[

$$
\begin{array}{lll}
120 & 4 & 4 \\
120 & 4 & 4 \\
\hline
\end{array}
$$
\] \& - \& per lb and upwarde <br>

\hline
\end{tabular}

Iee Alpica - The wool of the alpaca, or rather of the vanety of the animal called veuna, imported from South America, has recently entered into our manufnctures, as a fine riw materisl, of which a cloth is made hittle inferior to silk in beauty It is very durable, and if at could be obtaned in sufficient quantities, would be of the utmost value Peru is the apparently native country, of the zocuna genus, where it feeds in flocks on the mountans It is supposed that its numbers might be rapidly noultiphed It is easily domesucated The varieties are not well ascertamed The alpaca is used as a beast of burden hee the camel, though much smaller The guanaco, alpaca, lama, and vicuna, are evidently varieties of the same genus The ucuua is the varnety or species, wheh yelds the finest wool They are sad to be numerous in the Cordilleras of the Andes They would thrive undoubtedly among the Alps and Pyrenees They feed in flocks like goats, are very timid, and easily surrounded, caught, speared, or killed, the nool is susceptible of all artificial dyes

| 6UNTE1期 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1891 | 189. | 1889 |  | 3835 | 1836 | 14＊） | 78 ata |  | 1896 |
| Boanje | Jot 250320 | $\operatorname{lims}_{8>5} \text { aso }$ | $\begin{aligned} & 1 \mathrm{hsy} \\ & 18 \mathrm{xing} \end{aligned}$ | $\begin{aligned} & 16 x \\ & 2,107952 \end{aligned}$ | －${ }_{4}^{17} 024540$ | S，17，ona | $\operatorname{lin}_{4}^{164}$ | $\operatorname{sic}_{10}^{16} 102$ | $\operatorname{limg}_{\sin \cos 4}$ |  |
| bwedot |  |  | 27289 | 21 gat | 118 | ${ }_{42} 401$ | 0.021 |  | 1773 | 3 mmb |
| ${ }^{1}$ bumark | 23，9，919 | 802 848 | 374400 | 020809 | 80.0443 | L，S51 A／5 | $810^{10} 227$ | A84）${ }^{\text {che }}$ | 02183 | 60.151 |
| Pruaxis | 000942 | 83， 184 | 203，fro | ${ }^{2977} 517$ | 251．177 | 930 ${ }^{3} 80$ | 15 D06t | 1819297 | 024． 649 | 9tatr |
| Gerndery | $3^{2}$ A370x2 | 19，822，225 |  | 921834615 1804 788 | 23 70s 780 | 3170064 | 10703 des | 97 9 or 82 |  | 21，984 464 |
| Hollemd ${ }^{\text {B Lgium }}$ | \} 059840 | $200144\}$ | 863038 467015 | 18047 896.298 | 881） 4 （4）5 | 1.1076000 | 461857 07122 | － 10.340 |  | 4.847 132005 |
| Fratice | 713 ast | 1，573 | $259 \times 44$ | 1620 J193 | 104305 | 1000808 | 149306 | 220 680 | n314 | ＋42150 |
| Partugal | 413704 | 103944 | C31 969 | 1,234021 | 68\％， 318 | 163834 | A161075 | 627800 |  | \％ 54915 |
|  | \＄6， $674 \times 29$ | 2，024， 624 | 2，339，150 | 8343915 | 1602752 | 8，918，198 | 2， 24.8317 | 1， 414.487 |  | $13 \mathrm{~m} / \mathrm{m}$ |
| Gibraluar |  |  |  | 761899 285049 | 1850737 | 1.312081 | 9131 040 | 17514n | ANTCOF | ${ }^{21217394}$ |
|  | 409588 | 70，652 | 835 4.800 | 2850819 142779 | 10.810008 |  | 1314107 |  |  | 1，6045418 |
| toverat lutagde |  |  |  |  |  | 46719 |  |  |  | 121110 |
| thor a a dd Greok Ialandi |  |  |  |  |  | 88383 |  | Sr 075 |  | 42 kg |
|  | 11447 | 17998 | 301501 105090 | I 4745858 |  | 2，177644 | 2.3835484 124545 |  | 11823 463 |  |
|  | 48888 | 13405 68457 | 105 983050 |  | M1T［8th | 183810 831579 | 124525 406051 | 611.425 3122.6064 | 463 004 |  |
| Eaut Indin Company P Terrltarige and |  |  |  |  |  |  |  |  |  |  |
| Cestan |  |  | 8721 | ${ }^{64} 963$ | fut 848 | 100030 a | 1886741 |  | 2103 485 | 2，44170 |
| Artilab Sciticurente to tuatralla Hriturh Warth averican Colupies |  |  | 8，315， 8664 | 8，805 6 | 4，210，304 | 4 Moldid | 7，000 ${ }^{1815}$ | 1，kdT 4.18 4,1813 |  |  |
| $\qquad$ We I Indiea <br> Cube ard atiagy Porelser Went lactar |  | 877 | ${ }_{198}^{810}$ |  |  |  |  |  |  |  |
| Unifed Stetetot Anmerice． | 1644 | 4 Las 0 an | 334 （17\％ | 9048，500 | 2873850 | 6，32，800 | 223）368 | $00^{\prime 3}$ | $24 \% 168$ | 155095 |
| Dracil | 1011 | 1． 406 | 3078 |  |  |  |  |  |  |  |
| States of the Mio de is Phata | 1284 | \＄030 | zor 160 | 1，\％ras ast | atas 900 | 1 ATs 310 | 2 $207{ }^{204}$ | 17 的 6 6is | csitust | dicres |
| Chin | 1456 | 23101 | 14，010 | 102796 $17^{2} 207$ |  |  | 376,217 104781 | 176814 .81048888 | 134．99\％ | 4id 510 |
| biker plates | 268 | 318 |  | 趇加 | － 4 ， 3.37 | 17 2ม | 24080 |  | \％ $\begin{array}{r}19359 \\ \text { 17060 }\end{array}$ | 27 41689 |
| Torkl | 310525124 | 24124973 |  | 4045838 | 1217484 | CA 4ds 677 | 183797008 | 82551．33 | 5953 313 | 49630144 |
| COUNTRI |  |  |  |  |  |  |  |  |  |  |
|  | 1831 | 1 H38 | 1433 | 1 334 | 1835 | 18 da | 1897 | 1883 | 1836 | 1ㅎfㅇ |
| Cermany |  | ${ }_{21}^{1 / 2 x}$ |  | $\mathrm{lbm}_{2 \mathrm{aty}}$ | ${ }_{77100}^{l}$ | $\mathfrak{l l}_{\substack{l 3 n \\ i}}$ | $\operatorname{lbs}_{D \geq 013}$ | $1 \mathrm{lbs}$ | $25300$ | 1 lm |
| Fioliath | 40708 | $455093\{$ | ［8］ $0^{\text {an］}}$ | S2 PNE | 71982 | 6， 147 | 128.488 | 41.490 | 103 212 | H9［5\％ |
| Beligum |  |  | 205127 | 102，488 | yob ufy | 11） 713 | 1174769 | 189333） | 37234 |  |
| Pritisti Nortis Amer ca |  | ait 12 | ks dato | 41 9ab | Gis， 807 | 43819 | 1016.060 | ame 497 | 63459 | 140 Hat |
| Upited Stotan of smeri－ | 981440 | 10272 | \＄${ }^{3}$ |  | 1 100376 | 408108 | －84 413 | 14 A （1） | ＋2．${ }^{194}$ | 10， 4.45 |
| Siniex of Cuersamey（Torelstu Suade） | 7 隹 | 2418 | 4.349 | 7532 | 1076 | 86.40 | 4576 | B40\％ | 3130 | 16 |
| Olber glaced | 9 （kgr | 4610 | 4 NE，${ }^{\text {a }}$ | 83538 | 87 UL3 |  | 71597 | 4.5 | 2.88 | \＄ |
| Torta | 10 cas ＊） | 455404 |  | 807868 | 4103.700 | 61370 | 2881859 | 1800060 | （J） 14 | 1011020 |
| Total quabutits netajued for botne con apspetion in the Uplled Klogern | 20.68988 | 4360830 | 89，004，020 | 40，540，271 | 45，716，014 |  | 43013，490 | 66， 619.697 | 62959831 | 49710,390 |

Statevent of the Quantity of Sheaps Wool moported into the United King iom in 1811 and 1842


The quentity of sheep's wool imported in 1847, shows a great reduction upon that of 1846 -and a stall greater reduction when compared with 1845 Thus.-

- $\quad 18.45$
76815855 lbs
65255462
1846
62,180307

There has also been a large mcrease in the quantity re-exported durng the last year-leaving a stull greater reduction on the quantity retamed for home consumption, the companson of whith will be thus shown -

|  | 1\%A5 | 1846 | 4847 |
| :---: | :---: | :---: | :---: |
| fipported <br> Re-Ax ported. | $\begin{gathered} \text { 7bs } \\ 76,9138 k 5 \\ 2,062,338 \end{gathered}$ | 1bs. <br> 65 255 <br> 5,011. BE 5 | $\begin{aligned} & \text { [6s } \\ & 4,130,207 \\ & 4,200725 \end{aligned}$ |
| Ieft for consumoption | 74 151.302 | 62943,489 | 57320582 |

Showing a reduction in two years of nearly $14,000,000 \mathrm{lbs}$
The following table shows the quantity of wool in bags imported from each market of the world into the ports of London, Laverpool, Hull, Bristol, and Leith .-

Colontal end Forega Wool, imported into London, Liverpool, and Hull, from the Iat of January to the 31st of December in the Years 1846 and 1847, and the Total Iroports, maluding Bristol and Lerth

| counjrags | London |  | Liperpeol |  | Holl |  | Totacs <br> inchading Brastal avd Leifh |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 18.6 | 1847 | 1845 | 1897 | $18+6$ | 1837 | 1846 | 1897 |
| colomial | hags | bags | bage | bage | Luga | bayts | baty | Damer |
| New Sonth Wales | 59 197 | 42409 | 1420 | 71 |  |  | 40,586 | 42, 5.50 |
| Yan Biener a Laud | 14, 138 | 1381 |  |  |  |  | 14.45 | 17\%3 |
| Port Philip snd Adelaide | 11439 | 29115 | 1715 | 4010 |  |  | 26,105 | 3215 |
| Cape of Good Hoye | 11170 | 12491 | 4.0 | 965 |  |  | 1) 178 | 13,566 |
| Bart hadiok | 6740 | 2001 | 4 S33 | 5,291 | 36 | 1 | 11315 | 8184 |
| Tetal Colonisl | 95940 | 105347 | © 127 | 0,987 | 8 | 1 | 104103 | 114.3s |
| Ommany FonElow |  |  |  |  |  |  |  |  |
| Sermany ${ }^{\text {Gpana and Portagal }}$ | 9819 3.766 | 7,3689 1689 | 4877 |  | 42.706 | 24, 500 | 5983 8008 | 41580 |
| Rurefa | $9 \mathrm{Pre4}$ | 6,300 | 1445 | 318 | 1769 | 38\% | $11+53$ | 405s |
| Sooth America | 3 T | 13723 | 49 nem | 45.98 |  |  | 87650 | c. 119 |
| Gurbary and Tbrkey | 3.24 | 4,300 | 3.127 | 965 5 | 9 |  | 978 | 5063 |
| Sxple | 1100 |  |  | 493 |  |  | 140 | 133 |
| Triesth logbans acc | asb | 321 |  | 2,23is | 51 |  | 3453 | 2.502 |
| E) - -triort |  |  |  |  | t, 住) | 043 | 1 if | 648 |
| Lfortod Statea | 457 | 18 | 1,903 | 1626 |  |  | $2 \times 10$ | 1514 |
| Sundry | 1656 | 8364 | 1641 | \$,330 | 334 | 48 | 3014 | 6.383 |
| Torat | 123,439 | 142 260 | 75.314 | 67485 | 45,804 | 34706 | 356,495 | 245,781 |

There was a considerable merease in the quanity of colonial wool maported in 1847, the chif decrease arose in German, Spantsh, Russian, and other continental wools, and in those of the United States

## Woollen manufaciurls of great britain, and the markets for sale

The progress of the noollen manufactures of the United Kingdom, and the great perfection which woollen fabrics have attaned in Belgium (Verviers, \&c), France, Austria (Moravia, \&c ), Germany (Sasony, \&c ), renders any inquary, as to the openng of new markets, interesting Woollen apparel, it is evident, will only be extensively used an cold or temperate climates The countries to which our woollen fabics are chiefly exported will be found in the following tables

In Indin and China the use of Brisish woollens has hitherto been very hmited in quantity, but as climate forms a cause of necessity, the temperate and colder parts of India, Chma, \&c, should hereafter afford an extensive sale for Britsh woollen cloths, if made to suit the fashons and wants of the inhabitants

We will offer but few details relative to the origin of British woollen manufactures Cloths of wool were actually made at the earliest periods of which we have any account in Great Britain More than 100 years before the statutes of Edrard III to regulate the woollen manufactures, we find broad cloths two yards in width in the lists mentioned in the statutes In 1331, weavers, dyers, and pullers came in great numbers by invitation from Flanders to settle in England This may be considered the date at which the woollen manufacture, as a great branch of industry, was established In 1337, any cloths made beyond the seas, were prohibited to be norn in England but in those days evastons of mere laws were common The weavers were gradually distributed over several countues, viz, in Yorhshre, Suftolk, Worcestershne, and Norfolk In 33 Henry VIII, c 10, "worsted yam is set down as the prisate commodity of the city of Normach" Worsted manufactures, demve the name from a small viliage whire first made, and still called Worsted in Norfolk The numerous statutes attempting to regulate the woollen manufactures, abound with the most absurd Iestrictions Medley cloths were made in 1614, in Gloucestershre

It is stated in "Rees's Cyclopedia"_-"From the most remote period of the woollen manufacture unthl the latter end of the last century, or about 1780 , very fex, if any, mechancal improvements had been introduced intu it Duning the whole tume the varmous processes were carried on neariv in the same manner, but with greiter or less skill, and were employed upon materials more or less valuable The carding and spinning of wool and the wcaing and finslung of cloth, in the early part of the reign of George III, were effected by the same mulines as an the reign of Cdward III, which, probably, were similar to those of the ancient Romans, but more rude in ther construction In an art which
had seen so many centuries roll on without any change, it did not appear possible to the manufacturer that any mprovement could be effected, and had not the genuss of Hargraves and Arkwnght changed entrely the modes of carding and spinning cotton, the woollen manufacture would probably have remaned at this day what it was in the earhest ages of civilised society"

The repeal of the acts of Edward VI and of Phup and Mary, in 1807, led to the introduction of gig-mills, shearnag-mills, brushang-mulls, and other im provements, which were also caused by the astomshing progress of the nval cotton manufactures, many artocles of which began extensively to supplant the use of woollen cloths

Gregory King and Davenant estimated, near the end of the seventeenth century, the value of the wool shorn in Lagland at $2,000,000$ a a year, and they supposed that the value of the wool (ncludng that amported from abroad) was guadrupled in the manufacture, making the entre value of the woollen artucles annually produced in England and Wales 8,000,000l, of which about 2,000,000l. were exported In 1700 and 1701 , the official value of the woollens exported amounted to about $\$, 000,000 l$ a year. The increase in the quantrity of woollen fabrics exported was inconsiderable The bome market creating the elref demand For $2 f$ we take the amount of the six years, endug 1789 , the officral value of exports was $3,544,160 \mathrm{~L}$ a-year, or about $540,000 \mathrm{l}$ more than the value exported in 1700 In 1802, the offical value of the exporta amounted to $7,321,012 l$, being greater than in any year until $1833_{3}$ when the value amounted to 7,788,842l

The following tables will exhibt the progress of the export of woollen manafactures sunce the year 1815

Sumanar Account of the Quantity and declared Value of the Woollen Yarn，and of the Quantities of the different Descriptions of Woollen Manufectures，with the Total declared Value of the same exported from the United Kiaglom，in each Year from 1815 to 1848 ，both malusive．

| Y 意AES | 4 OOLLEN ANB WORSTED YARN |  | Clothe of ali Sorts． | 14 O L L E N |  |  |  | H A N U A C T D A \％ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Mepped <br> Cosatipgr， <br> Duffela Ac | Kerway merea and Balises | ghufis <br> Woollom or Worated | Fratuel | Bianketa and glanketiog | $\begin{gathered} \text { Curpeta } \\ \text { and } \\ \text { Carpeting } \end{gathered}$ | $\begin{array}{\|c\|} \text { Worbilens } \\ \text { mized } \\ \text { Cottan } \end{array}$ | Hpalery 72 Stockings Froolten or Wornech， | Supdrles， cotristiog of Rugs Tapysac | Total declarea 3 altee of Wonllena Nabifac． titise |
|  | Quanty | $\begin{aligned} & \text { Deflared } \\ & \text { Falue } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |
| $1{ }^{1618}$ | Hes | $\pm$ | pieces． $63 * 369$ | plecey $89.88$ | procen <br> 102 379 | pleces <br> 09730 c | $\begin{gathered} \text { yards } \\ 7056+25 \end{gathered}$ | yard． <br> 6， 397187 | $\begin{aligned} & \text { yarala } \\ & 798793 \end{aligned}$ | $\begin{aligned} & \text { ysids } \\ & \text { 99C Ct } \end{aligned}$ | $\left\{\begin{array}{c} \text { dozea paire } \\ 2020040 \end{array}\right.$ | $0 \times 4200$ | $9381_{426}^{2}$ |
| intg |  |  | 467229 | 90591 | $1+124$ | 585842 | $8650,73 i$ | 1 ， 344189 | 820 cas | 704435 | 119463 | 158101 | 7 H 42 ， 6.4 |
| 1417 |  |  | 478， 978 | 93，329 | 141 CT | $6 \times 846$ | 2，814 101 | 2，315，568 | $042 \times 0$ | 851874 | 1603183 | 197833 | 7173735 |
|  |  |  | 418，872 | 78395 | 163046 | 937144 | －6911860 | 270 cos 4 | 114.830 | $8+848$ | 161217 | 10497 | R， 41076 |
| 1819 |  |  | 34094 | 60， 574 | 111439 | 727，581 | 3532704 | 17710 | $820{ }^{6} \mathrm{~F} 30$ | $4 \times 39$ | 101473 | 41 j09 | 54 54130 |
| 1920 | \＄924 | 819 | 20x＋ 700 | 84.544 | 115827 | $8 \times 401$ | 2505108 | 12988400 | 52484 | $40{ }^{\circ} 710$ | 89350 | 3， 230 | ${ }_{5} 5186$ |
| $1 \times 21$ | 5131 | 147 | \＄7） 104 | 69 \％ 27 | 133010 | 10812938 | 3 － 0481 | 162433 | $7{ }^{7} 4012$ | 827800 | 30775 | 3 H 80 |  |
| 2827 | 12815 | 2，392 | 40177 | 67757 | 139317 | 108789 | 4503019 | 129671 | $8{ }^{\text {¢ }}$ | 1320376 | $13 / 545^{\circ}$ | 9， 043 | 0 O48N 167 |
| 18.3 | 6728 | 1187 | 3山ふ027 | 5426 | $12_{1} 833$ | 1 150 183 | 4311397 | 2133632 | 77842 r | 918，469 | 10r fat | 44819 | 50.3858 |
| 1 ln 44 | 121.40 | 2，168 | $4187+20$ | 61，509 | 1hs 177 | 1．244 4is | 31098001 | 1900041 | bincmi | 1318.438 | 113183 | 43 19.1 | C043 381 |
| 1 NES | 70.001 | 14.467 | 381.840 | 44288 | 13 xaf | $1{ }^{134} \mathrm{mog}$ | $2 \mathrm{OLS}, 504$ | 21694 | S4xi 32\％ | 1744，301 | 100 dig | ${ }^{4} 838$ | G $188^{\circ} \mathrm{FVA}$ |
| J4\％ | 131052 | 22704 | 325， 809 | 411000 | 122， 400 | 121．40a | 2423120 | $10925 \times 18$ | 903.597 | 581517 | 71.29 | $3{ }^{3} 23$ | 4 arflen 9 |
| 1481 | 243743 | 3 3，394 | ${ }_{3} 1965$ | 51600 | 169693 | 12581467 | ${ }_{2} 3168887$ | 18 mag erx | 1198939 | 810 c8 | 144178 | 43858 | 0.2450 |
| 1029 | 43977 | 562938 | 335059 | 406988 | 134091 | 17atess3 | 2， 239785 | 2097542 | 1197947 | 5，1758 | 159 | 45，314 |  |
| 1482 | － 56.585 | 43 Crs 12430 | $3+365$ -941059 | 10156 23377 | 81 848 878 | $1,307,454$ 1252.512 | 178080 104009 | i 2398961 | 891638 672 chatis | 1074077 1080318 1008 | 91218 111198 |  |  |
| 180 |  | 121430 1.4111 | 794269 136143 | 23377 $13,8 \% 8$ | 89878 |  |  | － 1770391 |  | 1080518 160098 | 111148 | 54,038 045048 | 4 $72 \times 1646$ 351113 |
| 1632 | 2204464 | 235307 | 99b 01 | 24， 453 | 75858 | 1550714 | 2704750 | 169130 | 640042 | 1334072 | 15814 | 5814 | ${ }^{6} 81179$ |
| $1 \times 83$ | 210148 | 245204 | 6．57 149 | 1.313 | 76531 | 1 190 59 | 2 erso 3 | 3120468 | （3） 377 | 1 fm 0 O | 832才何 | 74.200 | 0 04132 |
| 1834 | 1818314 | $4{ }^{2}$ | 321414 | 120403 | $6{ }^{6} 209$ | 1 \％ 76 | 1821344 | 2 23， 74 | Eir 013 | 1，723 1698 | 173 P63 | 7811 |  |
| 4885 | 2.873318 | 309 （6）1 | 019 5 ad | 20,483 | 71057 | $1{ }^{1}$ 的3 003 | 2 206\％ 20 | 312384 | 啮的4＊ | 178789 | 207614 | 110 C | trymils |
| $\pm 1535$ | 9，94617\％ | 3080.39 | 72087 | $2 \times 14$ | 65165 | 1，160，000 | 2.190009 | 4831506 | 1004013 | $1{ }^{1}$ if 924 | 163142 | 142553 | 7tar 3,3 |
| 1897 | 8613 718 | 3336 | 347787 | 24，cois | 60， 4,74 | 10.11436 | J 8959437 | $2{ }^{2} 71053$ | 753.164 | 1 \％fas ： 2 | ${ }^{7}$ | 020.67 |  |
| 1824 | 9044508 | 38535 | 64903 | 20.47 | 03，374 | 1，358 484 | 17 ctas | 2334800 | 72735 | 1 bitr 31 | 10.98 | $12+315$ | ${ }^{6} 709469$ |
| 14， 38 | 3 380 541 | $4 \times 7380$ | 3／2，954 | 25 0）${ }^{\text {c }}$ | ［0］ 321 | 51565356 | 1723023 | 5119.840 | gor 489 | 2 JMN NE | 11,093 |  | 68.11 bis |
| 7840 | 3 Pat 48 | 42407 | 215746 | 16094 | 6316 | $1{ }^{18} 517$ | $1 \mathrm{C13} 477$ | ${ }^{1} 102,5053$ | 745879 | 8： 4 ifit | 16.446 | 1641834 |  |
| 1341 | 410329 k | 5.349 | 21315 | 13.418 | 39481 | 2960 | 182019 4 | 21878139 | 8 By 316 | 3018007 |  | 203 1300 | $87.186,3$ 0.145045 |
| （1812 | 5478481 $7+10318$ | 63.203 74.483 | 171675 24160 | 8,433 8273 881 | ${ }^{41} 364$ | 1 74.80 | 1597150 1760 1809 |  | － 6 cz | $0.150,010$ 11104,675 | 131480807 | 132129 $192+86$ |  |
| （1843 | $7+10318$ $827!806$ | 74 9 9 | 244160 31793 | 8.73 4616 | 50：93 |  | 1710， 189 | 176170 +360800 |  |  | 147597 $26+36$ | 192 ${ }^{196}$ |  |
| 1845 | －463 998 | 1，868．4．5 | 307791 | 4，773 | 43，256 | 8， 14.406 | 9 ${ }^{\text {2 }} \mathbf{0 5 , 3 1 1}$ | $82794 / 8$ | 1096070 | 23，$\times 12017$ | 174 06E | 178 ¢ \％ | 7，0\＄\％1is |
| $\mathrm{l}_{184}^{187}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 185 |  |  |  |  |  |  |  |  |  |  |  |  |  |


| COUNTEIES | 1851 | 1885 | 1883 | 1884 | 1835 | 1 kgh | 1937 | 1883 | 1889 | 1840 | 1841 | 1949 | 1842 | 184 | 1845 | $6^{1846}$ | 4545 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rasain | $1010 A 0$ | $\chi^{ \pm} \mathrm{m} 7$ |  | $1 \mathrm{ln}, 408$ |  | $\underset{123}{E} 8,3$ | $103199$ | $\frac{s}{9}$ | $\text { 壬 } 193$ | $\underset{1}{\boldsymbol{f}} 919$ | $\underset{102, ~}{\mathbf{f}}$ | $117$ | $\begin{gathered} \text { f } \\ 49 \\ \hline 192 \end{gathered}$ | $\begin{gathered} \& \\ 0 \% \\ 3 a n \end{gathered}$ | \& | $\pm$ | 2 |
| Sweden | ${ }_{13}^{2}$（ins） | ${ }^{4} 40$ | 82.8 | 10 205 | $1+684$ | 9\％ 702 | $1{ }^{1} 102$ | 18493 | 16.200 | 10.009 | 16， 818 | ${ }^{24} 406$ | 79 419 |  | $\begin{aligned} & \text { B4i } 402 \end{aligned}$ |  |  |
| Nerway | 13. |  | 12,321 8034 |  | 17 4323 4309 | 15295 <br> 2686 | 10646． | 10978 1785 | 10883 | 0062 | 11， 0,42 | ${ }^{18} 186$ | 21044 | 72，538 | 24，288 |  |  |
| Derrandy | 5 ${ }^{6}$ | － $\begin{aligned} & 323 \\ & 627\end{aligned}$ | 2038 <br> 150 | F 43.5 | ＋3，309 23 | 2588 426 | 2042 <br> 02 | 17378 <br> 6.91 | 9 c 972 | 1450 | 1774 | 1573， | 8，800 | 1778 | 2，4031 |  |  |
| Gefrasay | 44908 |  | 084.916 |  | 831 178 | ${ }_{381} \mathrm{mas}$ |  | ${ }_{734}{ }^{6902}$ | 2180804 | 75127 |  | 238814 | 1181 1048,23 |  | \％ 1935 |  |  |
| Holland | 200，205 | 28， 910 | 28\％123 |  | 2015 6 | $345 \times 38$ |  | 290 | $3_{17}{ }^{3}$ | 284844 | 310， 88.9 | 239 51000 | 7048,23 424 700 | 1，031 7083 | \＄664，760 |  |  |
| A Belgam | 200，203 | ask 910 | \｛30x689 | 129173 | 12378 | 15104 | 14， 48 | $1{ }^{160} 4$ | 1ata | $1{ }^{2} 8506$ | 110.52 | 372，44 | 384 css | 291， 684 | $4{ }^{102} 689$ |  |  |
| Frase <br> Porsutal | 11513 | ${ }_{4}^{43147}$ | 564 484 | 917 2331 | 6， 213 | 53876 | 45670 | 5780 | 51 4920 | 44150 | 38，04＊ | 92142 | 14.3216 | 18780 | 176，9\％0 |  |  |
| －Axore | ${ }^{16} 10$ ， 28 | 73.357 16.2909 | 1242618 1060 | $2.13,341$ | ${ }^{250} 715$ |  | 184582 10 BxN |  | 177 819 | $\begin{gathered} 165859 \\ 10060 \end{gathered}$ | \} 1 251 | 153805 |  |  |  |  |  |
| Spain ard the Gajeate latends | 4，721 | $4{ }^{1 / 4}$ | 4540 | 49102 | －0］ 3 n | 6,724 | 6230 | 5082 | 6.674 | 4292 |  |  | 120380 | 180080 | 156，489 |  |  |
| Spain and the Galcate lalunds | 104， 408 | 50 2,430 2,40 | $19730-2$ 4 478 |  |  | ${ }^{45435}$ | 30687 | 34 8 8 1896 | ${ }^{23} 1589$ | 78006 4886 | \} 00,382 | 49，341， | 6，734 | 55182 | 112，828 |  |  |
| Cibraltar | $15 \times 5$ | 2504. | 19 N 35. | ［24179 | 84 478 | 39159 | 47 6148 | 15，700 | 75，203 | 80879 |  | 84338 | 109 | 118 |  |  |  |
| Italy and the Italiad Inlande | $2011 \times 6$ | 194 cys | 200\％ 312 | 25147 | 24352 | 241820 | 178，056 | 250 157 | 233 614 | 228854 | 201539 | 280727 | 394200 | 331090 | 291024 |  |  |
| malita toniag lumady | 93018 | 8 | 14．450 | 1 13 5ry | 1416 ${ }^{\text {a }}$ | $13,3.20$ | 7172 | 15 2451 | 12，310． | 6，796 | 15010 | 17189. | 14，281 | 2．） .49 | 12，578 |  |  |
| Mores and Eswek lajands | 104 | 2,32 | 30049 | 3,757 1728 | 3 <br> 1887 <br> 1189 | － 315 | 31639 808 | 3140 | 1718 | （1） 152 | 2484 | 901 | 48.35 | ${ }^{4} 183$ | $\square \mathrm{BH1}$ |  |  |
| Tarkey | 29498 | $8{ }^{7} 180$ | 20102 | 20830 | d1 Sha | 81008 | 19，4201 | 35，003 | 42， 19 | ${ }^{25} 4108$ | 732 | 77 | 1.5581 | 8，060 | 4611 |  |  |
| Syma atad Palerting |  |  |  |  |  | 18 m |  | 4，13 | 1）208 | 1476 | 20.571 | 85.501 | 64556 | 65，320 | 120．848 |  |  |
| Egypt |  | 1，90 | 678 | 1，979 | 3 （0n3） | 3， 31020 | 1635 | $8 s{ }^{\prime \prime}$ | st1 | 10 |  | 10 | 2，2 | 3,36 4,600 |  |  |  |
| Tripoli，Tumbe Algiern，and Morocea | 4 | 11200 |  | 77 r | 145 | 8038 | \％14\％ | 9403 | 4089 | $12^{90}{ }^{2}$ |  |  |  |  | 824 |  |  |
| Crpe \％erd lilends | 20,408 | 41767 | 43，004 | 89429 | 8490 | 49075 | 80659 | 6453. | 83650 | 47796 | 50.188 | 8，474 | 8\％， 857 | 47383 | $00 \sim 14$ |  |  |
| St．Helepar |  |  | 400 | 1021 | 123 | 231 | 184） | 85 | 49 | （15 |  |  |  | 76 |  |  |  |
| Ohhor Porth in Africa | 10 | 520 | 4 （10） | 4，733 | 5810 | 4975 | 3340 | 6，110 | － 340 |  |  |  |  | 7 a | 009 |  |  |
| H／auyifus Isle of Banrbon | 1540 | 187 | 2.813. | 8950 | 10，414 | 17147 | 12，005 | 23.213 | 9 4til | 7914 | 24，447 | 68， 200 | 25，06\％ | $\left({ }_{1} 7875\right.$ | 7818 |  |  |
|  | 7 ， | 0.4 |  |  |  |  |  |  |  |  |  |  |  | $1{ }^{1} 45$ | 2 c ars |  |  |
| Ceylan $\} \text { \} }$ | 6．5482 | 686280 | 708 881 | （244385） | 218，${ }^{\text {and }}$ | 894787 | 235 679 | 204908 | 198175 | 301001 |  |  |  | ［459 61 | 310460 |  |  |
| Samitra Jife and other lolsudi in |  |  |  | （384 432） | 52713.4 | 12as 388 | 240，586 | 408702 | 883210 | 16412 |  | 302，000 | 77200 | （ 5 ah 4 | 539 |  |  |
| che ladian Beas | 25369 | 32025 | 80， 5.5 | 4818 | 12750 |  |  |  |  |  |  |  |  |  |  |  |  |
| Philupphee lusatids ${ }^{\text {a }}$ | \％ | $17+84$ | $8 \mathrm{BLT7}$ | 11040 | 47603 | 1620 | 030 | 1340 | 713 | 1900000 |  |  |  |  |  |  |  |
| Bribob getlyenent io Abakrait | S5 300 | 35，630 | 04162 | O6 968 | 48603 | 05004 | 75600 | （104 20. | 130128 | 1450085 | 96，418 | 404 404 | 103， 524 | 0\％ 758 | 129488 |  |  |
| South Sen lulands | 703 | 4 |  |  | 10 |  |  |  | $1^{2255}$ | $\begin{array}{cc} 2 & 178 \\ & 708 \end{array}$ |  | 667. | 7，566， | $\left\{\begin{array}{l}\text { TSN }\end{array}\right.$ |  |  |  |
| Britub North Amorigan Colonien | 848898 | 362435 | 376，878 | 208856 | 418 c05． | 525，474 | 892070 | 859，689 | ［11 190 | $440 \mathrm{a0}{ }^{3}$ | 81834 |  |  |  |  |  |  |
| $\overline{\text { Hapti West ludies }}$ | 74.960 | 92816 | 102101 | 1023003 | 114208 | 140047 | 155704. | 08412 | 81833 | D0 047 | 62， 018 | $8920$ | $\begin{gathered} 25885(604 \\ 00,00 \end{gathered}$ | $\begin{gathered} 639 \\ 78 \\ 890 \end{gathered}$ | $\begin{gathered} 571908 \\ 4 \\ 414 \end{gathered}$ |  |  |
| Cryti and other Porefell Weat lodies | 3.43 37 318 | 9\％ 415 3.7031 | 19676 46,172 | 10763 的 818 |  | 11717 <br> 9673 | （3378 | （0） 274 | 116898 80 | 6 | ） 50,9020 | 82748 | 5710 | 7795 | 85858 |  |  |
| Onited gratus of America | 3 sse 179 | 1，404963 | 9， 50340 | 1 126932 | 2681271 | 3 1735645 | L045 274 | （ 8 S4 $2 \times 60$ ） | ¢ 1423521 | 10.68721 | 1021,060 |  |  |  |  |  |  |
| Aiesico Guatumala | 64 40k | 15， 3 \％ 6 | 43482 | 07 487 | 2367 | 17638 | 40435 | 37448 | 4349 | 03350 | 108，020 | H88，496 | Eag 186 | 245 <br> 19524 |  |  |  |
| Columb | 19260 | 81441 | 12，304 | 10.85 | 18 a3b | $15 \times 6$ | 17 sos | 24230 | 89\％01 | 24889 |  |  |  | \} 23685 | 20747 |  |  |
|  | ${ }^{89} 835$ | 215100 | 2740 | 268 ，309 | 387 78， | 379694 | ：882， 128 | 228593 |  | 807， 204 | 379，908 | 258，800 | 278，17！ |  |  |  |  |
|  | 64919 | 1031085 | 8783 | 187976． | 133760 | 119551 | 101298 | 105 cas | 134803 | 132 3， 6 |  | －120 | 2， | 184037 | 1004.80 |  |  |
| Pera | 105985 | 88.817 | ［ 1785183 | 109730 H witi | 8） 618 | 1， 108 | 1029431 | 02688 | 125034 34200 | 160 |  |  |  | 200 34， | 28） 412 |  |  |
| Ifles of Guatrats fersey Alderney |  | 8 |  | H | Gticta | 65， 294 | 10578. | 100， | $1{ }^{3} 300$ | 151463 |  |  |  | 204310 | 24.427 |  |  |
| adian doreign guoxin） | 33 064 | 40， 030 | 3472 | （4） 514 | 42085 | 10 GRS | 40 0s 0 | 48681 | $8{ }^{1}$ S 305 | 31724 | 31 212 | 40341 | 51785 | ＋1350． | ¢ 5 568 |  |  |
| Toral woven goods | 5281014 | 624474 | 0 294 r2a | a 36，871， | 48：0 5131 | 639，384， | 4，055 477 | 3，703 bing | 6971 613 | 3，377，Rn3 | B74 |  |  |  |  |  |  |
| Tutal yeria． | 158111 | 233，307 | 44， 304 | 22411 | 3010 | 350 6909 | 333 0035 | 384835 | 423340 | 482，937 | 5623 HH | 6vi 5 ta | 742 ykd | 9：825 | $\left[\begin{array}{l} 1036 \\ 10060 \end{array}\right.$ | $90420$ | 6，857 796 10 （1） |
| torac mmotilens | （10）398429 | 6429740 | 9，0611726 | 1775 | 602 | 吅等09 | 9819 ${ }^{3}$ 5 | ＋ 17080 | ces jar | 780 810 | 301021 | 82－2， | ， | 154003 | 900 |  |  |


| countries | 13 | 1832 | 1483 | tess | 1835 | 1436 | 1837 | 1839 | 1839 | 1840 | 1841 | 142 | 1347 | 18.4 | 18.5 | 1860 | 1897 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ruasta | $\begin{aligned} & \mathrm{t}_{5} \\ & 1548 \end{aligned}$ | Is 4． 8 2． | 1 bat 48．7 76 | $\begin{aligned} & \mathrm{lbs} \\ & 74 \mathcal{H 3} \end{aligned}$ | $\begin{gathered} \text { Ths } \\ 111489 \end{gathered}$ | $\begin{array}{\|c\|c\|} \hline \mathrm{sbog}_{107} & 30 \end{array}$ | Thes <br> 195 641 | It <br> 14才 308 | Nom． <br> 141 934 | lb |  | $\mathrm{lb}_{83} 8007$ | $4$ | ${ }_{74 \mathrm{Hat}}^{1691}$ |  | lbs | liba |
| Svedo | 1.5 | 40， |  |  |  | 318 | 1006 | 13 | $\mathrm{Sc}_{8}$ | $21 \times 1$ | 1900 | 4 4124 | 0415 | 15374 | $1{ }^{1}$ |  |  |
| ${ }^{N}$ why | 148 |  |  | 180 | 234 | 80 | 4．6 | 3.42 | 661 | rys． | 9 S | 2144 | 2 cks | ¢ 163 | 174 |  |  |
| $\mathrm{O}_{1} \mathrm{tm}$ | ris | $\mathrm{r}_{7}^{2 \mathrm{~F} 7_{1}}$ | 9 4 7 ${ }^{7}$ |  |  |  |  |  |  | 8176 ${ }^{36}$ | ${ }^{81 \mathrm{Na}}$ |  | $\begin{array}{lll}1 & 4 \\ 3 & 4 \\ 3\end{array}$ | 1104 805 | 1708 497 |  |  |
| \％moals |  |  |  | $\|$1010 <br> 1017 <br> 187 | （1919820 | 14345 | $142)^{158}$ | 1045 cal | $1770310{ }^{2}$ | （ 2178 | 2，938，914 |  | － 3 357 | $4014{ }^{205}$ | 437.497 |  |  |
| Hila d | ）494， 250 | 52.515 |  | 354， | 43 773 | 1184 | 50.75 | 600 01 | $\pm 3108$ | 91913 | 1204,1004 | 1480 ＜ 205 | 1,514 צse | 1 的tr902 | 20 ＋，＋46： |  |  |
| ［15 180 | $\}^{492} 201$ | 52.581 | \｛ 110440 | 46，4 ${ }^{4}$ | 141702 | i4G，793 |  | 11048 | 11174 | $12+115$ | 123 T 4 | 170019 | 10910 | 49457 | 51 Bus， |  |  |
| Prone | 1 ta | 2act | 342 | $9+35$ | 2750 | 8514. | 63， 72 | 14034 | 133 き3s | 23 64 | 300，500－ | 3681 DS8 | 4350.0 | 3658 | 41.3 m |  |  |
|  | 2,413 | 2374 | 2,46 | 1 ¢20 | 3，53： | 24 | 2， 512 | $3 \mathrm{B06}$ | $\pm 340$ | 31280 | 2，750． | 11.40 | 0.51 | ${ }_{3} 470$ | 984 |  |  |
| beari lasace | 66 |  | 485 | 31 | 1239 | 8 Pl | 206 | 435 | 4360 | 3，209 | 96. | $8,0.77$ | 1472． | 20 naj | $66^{695}$ |  |  |
| －Conavicy |  | 8 Pa | 46 | 15 |  | 104 | 145 |  |  |  |  |  | ${ }_{22}$ | $2{ }^{7}$ | $4{ }^{4}$ |  |  |
| Gibraltar | 114 | 230 |  | 50 | 105 | 84 | 3240 | 1090 | 0.765 | 6.2380 | 60，030， | 41，428 | 83，572 | 14，389 | 10120 |  |  |
| It if and chic litalitan Iniex da | 9223 | 17，3040 | 80，649 | 29，101 | 21050 | 69，212 | 47165 | 63,183 | 80,903 | 43009 | 54604 | A3，100 | 114783 | 73808 |  |  |  |
| Maidi I nlan lulanda |  |  |  |  |  |  |  | 80 |  |  |  | － 4 |  |  |  |  |  |
| I nlan lulanda |  |  |  | 224 |  |  |  |  |  |  |  | 14 |  | 288 |  |  |  |
| Wear mo Cuant of |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4，97\％ |  |  |
| Africa | 1797 | 048 | 168 | 1，312 | 168 | 803 | 379 | 5 S | 9n2 | 410 | 156 | ${ }^{6} 8$ |  |  | 200 |  |  |
| Cope of 6 ood llope |  | 20 | 1190 |  | 24 |  |  |  |  |  |  | 边 | 14. |  |  |  |  |
| EL thadia company ${ }^{\text {b }}$ 7cratomes\＆Ceylon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cluad | ） 064 | 3，656 | 760 | $\left(\begin{array}{l}3,34 \\ 2,340\end{array}\right.$ | 2，328， | 15016 | 1109 | 1176. | 2439 | 3384 | 8，702 | 2 H 20 | $\begin{array}{ll} 4 & 88 \\ 1 & 8 \end{array}$ | $\begin{aligned} & 57 \mathrm{~g}^{\prime} \\ & 87 z_{2} \end{aligned}$ | 8，729 |  |  |
| Sure trs，Ja a oud otule falandas an the |  |  |  | － |  |  |  |  |  |  |  |  |  |  |  |  |  |
| If diap seas |  |  |  | 1200 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ptulppane Islanda |  |  |  |  | 0，352 |  |  |  | 1245 |  |  |  |  |  |  |  |  |
| Bridisi S telementa |  |  |  |  |  |  |  |  | 120 |  |  |  |  |  |  |  |  |
| In Auatralia | 118 |  |  |  | 126 | 40 |  | 752 |  |  |  | 132 | 149 |  | 1110 |  |  |
| －Morth hmerican |  | 10808 | 1） 300 | 4 G18 | 12，073 | 17990 | 1730 | 10901 | 1945 | 22 cls | 92，930 | 18，440 | 176.1 | 34，455 | 22.795 |  |  |
| Colonlen $\qquad$ West Indea | 5，553 |  | 194 |  | 5660 | 30 |  |  | gop | 438 | ［16 | 42 | 108 | 112 | 478 |  |  |
| Cuba do other Foreign West Indiea |  |  | 112 | 300 | 1610 | 800 | 1 18． | 1340 | 87s | ara | 112 | 1，304． | 112 | 20. | 1892 |  |  |
| United States of Amo rics | 7－3， 8 806 | 547380. | 269993 | 263 498 | 257293 | 231780 | 160 Dat | 329 603 | 384320 | 7938988 | 20274 |  | 242,142 |  | 18928 |  |  |
| muxico |  |  | 248 |  |  |  | 160 ${ }^{\text {das：}}$ |  | 323 | 193038 | 2 O | 23015 |  | 1 as． |  |  |  |
| Columbite |  |  |  |  |  |  |  |  |  | 24 |  |  |  |  |  |  |  |
| Hracil | 39 |  |  | 0 | 8400 | 336 | 916. |  |  | $241$ |  |  | 118 |  | 850 |  |  |
| la Plata |  | 1672 |  |  |  | ald | 97\％ | $30+$ |  |  |  |  |  |  |  |  |  |
| Chils |  | ${ }_{4} 27$ |  |  |  |  |  |  | 168. | ＊ | 24 |  | 346 |  | 112 |  |  |
| Pery of G |  |  | 1248 |  |  |  | 804 |  |  |  |  |  | 1006 |  | 112 |  |  |
| tua find（Foremb Goods） | 21，817 | －${ }^{5}$ | 29，616 | 32024 | 27.518 | 27，594 | 24ans | 38，030 | 24830 | 27 999 |  | 16，546 | 25494 | 25415 | 89025 |  |  |
| Totat | 1 cos， 85 | 2 2M H64 | 2.10748 | 1 561814 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Valau $\boldsymbol{E}$ | 15111 | 23 30 | 2 t | 123844 | 2069031 | $23,46041^{2}$ | （33309m | 384 | 4 $4 \leqslant 3,420$ | 3， 529 9n7 | ${ }_{5}^{4808}$ | 0，502，401， |  |  | 3405，32＊ | 909090 |  |



| CUUNTR1E＊ | British Wor liet 1870 Experted | $\begin{aligned} & \text { Clathe } \\ & \text { ysa33 } \\ & \text { gorts } \end{aligned}$ |  | 18 rey weres | Baurces of at Sorts | $\begin{aligned} & \text { St.1I } \\ & \text { Wo } 11 \\ & \text { ar } \\ & \text { Worsted } \end{aligned}$ | Flatmel | $\begin{aligned} & \text { Blanketa } \\ & \text { and } \\ & \text { Blanketag } \end{aligned}$ | $\begin{aligned} & \text { Carpets } \\ & \text { nad } \\ & \text { Capetioy } \end{aligned}$ |  | $\begin{gathered} \text { Hopery } \\ \text { vie } \\ \text { steciriss } \\ \text { Wuonlich } \\ \text { or } \\ \text { Worsted } \end{gathered}$ |  | Dechared Falao of firltuh W0019n 1480 ifo turea Esporked from lue tins thed hicgiom |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3 lm | prees | preces | P1 ros | preced | plecest | Yardes | Yesits | yards |  | doz paris |  |  |
| B and | 1134785 6872 | 487 | 106 | 1 H |  | 19 cran | （ ${ }^{3} 40 y$ | 560 8.45 | 5989 3016 |  | $\begin{array}{ll} 711 \\ 15 \end{array}$ | 4.414 | $64333$ |
| Sw den | 601 1501 181 |  | 92 | 223 | 140 | 24 ${ }_{8}$ |  | 2 1 1 1098 | 9 216 3,73 | ${ }_{3} 18954$ | ${ }^{115}$ | （1383 | 31792電 |
| N wnmy |  | ${ }_{5}$ | 8 | 223 | 10 | 17 | 403 |  | 1484 | ${ }_{0} 1515$ | 49 | 10 | ： 00 |
| ${ }^{\text {jobu }}$ | 4377 | 0. |  | 4 |  | 459 | $250]$ | 160 | 1720 | 20136 |  | 28 | 1．31 |
| $\begin{array}{rl} \\ H & 0 \\ \text { or }\end{array}$ | 8.604 |  | 40 |  | 100 | 3 ncu | 3.0140 |  |  |  |  | 105 | 53 |
|  | 4＜31，020 | 130，${ }^{\text {a }}$ | 7 | 1053 | 223 | 5858 |  | 30.794 | 94301 | 30149309 | 2105 | 1580 | g＊F $3 / 4$ |
| $\mathrm{H}^{\text {Hent }}$ | z 403120 | ${ }_{212} 12$ | \％ 1 | 361 | 16， 162 | 2311 dicm | 114162 | $31 \times 19$ | 85 50， | 524175 | $4{ }^{3} 382$ | ic 24 | 46012 |
|  | \＄4540 | 21. | 145 | 40 | ${ }^{62}$ | 11.747 | 90150 | 129 | 2， 301 |  | 174 | 15.54 | 241689 |
| $p$ p | 413339 | $1 \pm 5$ | $\mathrm{l}^{145}$ | 874 | 45 | If 470 | 21179 | 740 006 | （33）23 | 1 $06987 \%$ | 1363 | 2133 | $1{ }^{1} 536$ |
| F 1 laf Amote nd Mudersa | 93a | $12 \times 124$ | ${ }_{6}{ }^{\text {d }}$ | 245 | 1485 | 35604 | $12.3 \pm 2$ |  |  | 314．603 | 1，3， 18 | 1 llics | 1253 |
|  | 51086 | 15331 | 18 | 144 | 36 | 16，544 | $\bigcirc$ | 220 | ${ }^{5} \mathrm{H} 757$ | 452 fax | 1810 | 123 | 112488 |
|  | （10120 | 3124 | 13 |  | 32 | 10．7\％${ }^{\text {a }}$ | 3019 | 6711 | 42，400 | 177409 | 7480 | ${ }_{2}{ }_{21} 1$ | 2015 ${ }^{\text {ca }}$ |
|  | s0riss | 3 |  | \％ 7 | 8 | d＊ar | 8.78 | 13190 | 74 | 38 may | 120 | b34 |  |
| fo tilnlaude | 33 | 28. | 4 | 45 | 10 | 14 mm | \％ 24.4 ． | 1400 | 4184 | 21 104 | 97 | $3 \times 2$ | 5．911 |
| 41 rit and \＆Feek lal bods | ${ }^{1}$ | 12 |  | 1 |  | 1 css | 110 | 5 | 1300 | 30090 | 84 | 112 | $4 \mathrm{rt1}$ |
| 17ks Pate tor | 4090 | G． 187 |  | 111 | 12 | 40.674 | －193 | $1{ }^{170}$ | 15087 | 482，172 | $\cdots 15$ | 2984 | 123438 |
| Sic and Padetane |  | 15 |  |  |  | 1748 | ${ }_{133}$ | 170 | 2044 | 42 ） 月 $^{\text {a }}$ | 100 | 313 617 | － 31818 |
|  | 9\％0 | 15 F |  | 14 |  | 80 | 1 |  |  | 3160 |  | 17 | － 314 |
| WhatirnC att i Afrien | 200 | sat |  |  | 57 | 2， 36013 | ${ }^{989}$ | 1038 | ${ }_{18}^{14.46}$ | 2360 | 1，354 | 1405 | $78 \%$ |
| Cuf $f$ Grih pr |  | 4256 | 1230 | 1 ls | 77 | 32.138 | 698987 | 154，410 | 1853） | 1，6089 | 1，358 | 9947 | 90718 |
|  |  | ${ }_{81}$ |  | 3 | 9 | 137 | 350 | 088 | 3 at | 1300 |  | 80 | 909 |
| at Hrigat |  | 672 |  | 1 | 4 | 8，042 | 7374 | 1，390 | $20 \times 0$ | 598.2 |  | 82 | 14， 6,4 |
| Brineh Turritarios ia the Patt Indies | $a^{-3} 0$ |  | 37 | 182 |  | 1095 | 153 28＊ | 35.5584 | 17131 | 150689 | 1，802 | 8783 | 31c， 480 |
| Sara | a． 7 |  | 37 |  |  | 312 | 16.0 | 1910 | 360 | 19，370 |  | 79 | 11564 |
| Prtilipund 1 lands |  |  |  |  |  | 2，034 | 1309 |  | 745 | ${ }^{800}$ |  |  | 5507 |
| Cluna ${ }^{\text {coub }}$ |  | ＊） 22 | 350 | $i$ |  | 232， 810 | 18339． | C3 380 |  | 17180 | 608 | 074 |  |
|  |  |  | 73 | 929 | 837 | 23096 | 18.290 | 295407 | 40086 | 200275 | 13934 | 4287 |  |
| So th $S$ Istigeds | 10087 | $\begin{aligned} & 2,539 \\ & 1039 \end{aligned}$ | 7 | 4 |  | 2uct | 18.19 | 3 smd |  | 1412 |  | 104 | 7408 |
| Brauti Narch amortian Coloules | $2 \mathrm{P}, 194$ | 29110 | 100 | 1785 | 694 | 1825 | sen， 7 \％ | 35348 | 238530 | 10903515 | 攵178 | 38，587 | 67） |
| Preve tindies | $1{ }^{17}$ | 3， 114 | 2 | 423 | 11 | $1430 d$ | 60047 | E0 104 | $46 \%$ | 15345 | 2.338 | 6,515 | ［5） 144 |
| P rek on at ladtes | 1892 | 4，04E |  | 10 | 36 | 4332 | 1620 | 131 ble | 5893 | A7 079 | 1455 | 2405 | 155832 |
| Frued States of Ametica Jesta | 4726.25 | $49,1 \pm 4$ | 64 | 6000 | 265 | 37817 | 191931 020 | 1207 ＊ | 174123 | 101549 meg | 947 | 50510 | 1，69173 |
| Jexat |  |  |  |  |  | 1895 | 19817 |  | 41833 | 140750 |  | 40 | ${ }_{37}$ |
| New Granadn vowezuela at | 2，240 | 3164 |  | 78 |  | 6743 |  |  |  | 1070 |  |  | 7337 |
| Eccador |  |  |  |  |  |  | 595 | 22003 | 817 | － 8180 | 397 | 401 | 39，747 |
| Braxil | 860 | 14314 |  | 1．893 | 1906 | 72，978 | 5，008 | $35 \times 1$ | \％，416 | 218，769 | 3,388 | 788 | 30993,4 |
| Stater of the Elio di In Plata | 418 | 14 6.341 |  | tilt | 236 | 21275 | 800 | ${ }^{294}$ | 7321 | －53093 | 1510 | 4，404 | 168.489 |
| Cbill | 112 | 0097 |  | 8 8ar | 60 | 25 C7\％ | 407 | 550 4,301 | 18919 |  | 1,901 2,47 | 168 | ${ }^{881} 8142$ |
| Pera Falland fulande | 112 | 8807 |  | 1.880 |  | 10872 |  | 4，304 | 18,37 302 | $2 \mathrm{~A} \times 100$ | 2，371 |  | 284887 |
| The Cbanall felanda | 32.025 | 4492 |  | \＄ | 49 | 0，903 | 162，188 | 36．998 | 3974，6 | 8409 | 481 | 8.275 | 65，580 |
| Torat | 9，405 423 | 307791 | 4773 | 2467 | 23 363 | 2，21， 306 | 2，405，311 | 2,479478 | 1，006 970 | 33891017 | 174051 | 176，${ }^{2} 95$ | 7，672 119 |

8L9 TOOM do SSUCJOVAMNVW GNV＇ATddAS＇NOILYAILIRO

Berrisu Wool (Sheep and Lambs') Exported from the United Kingdotn.

| OOUNEEIES | 1891 |  | 1939 |  | 1888 |  |  |  | IES |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quan 3tifig. | Deolaryd Valug | Quan btien | Declared Valua | Quan tuties | Derbsped Vatue. | Quac. taied | Declared Valme | Quan | Decliared Value |
| Germang | 1bs 75,460 | $\underset{3,507}{\underset{y}{x}}$ | $\begin{aligned} & \text { Ibw } \\ & 82,3014 \end{aligned}$ | $5$ | $\begin{gathered} \text { thas } \\ \text { 8,4293 } \end{gathered}$ | ${ }_{\substack{307 \\ 0.067}}$ |  | ${ }_{\text {f }}^{3}$ | 178 7111 | 4 |
| Halland | 1750,157 | 80,241 | 3,416,933 | 176.796 | 173,172 | 0063 | 74,217 | 5.470 | 72111 | 2,367 |
|  | 1703, 488 | 82, 097 | 5,16,03 | 17,796 | 3,773,498 | 214 239 | 1,289780 | 109000 | 3,675,938 | 28, 1,438 |
| Yrapon | 430888 | 28081 | 730.492 | 26,541 | 1 12t, 200 | 109,056 | DCO9 156 | 81851 | 1,501, 218 | 131 583 |
| Ohistr countrich. | 15918 610 | 46,0*p | $\begin{array}{r} 1000 \\ 13 \\ 1306 \end{array}$ | 44 | 165,914 7,090 | \$698 ${ }_{\text {g }}$ | 4,150 | 301 | 10049 7839 | 8068 |
| Tuftic | 3494978 | 173,103 | 41998205 | 215,650 | 4722.110. | 312504 |  | 192,176 | 4,042, 004 | 38,905 |

Batise Wool (Sheep and Iambs') Exported from the Unted Kingdom-(contunued)

| counteigs | 7836 |  | 3837 |  | 180 ${ }_{\text {d }}$ |  | 189 |  | 1840 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qann tritice | $\begin{gathered} \text { Declured } \\ \text { Valute } \end{gathered}$ | $\begin{aligned} & \text { Quan } \\ & \text { ittres } \end{aligned}$ | Beclared Valae | Quad titien- | Declared Vslue | Quen tite | Declared | Quan plies. | $\begin{gathered} \text { Declareat } \\ \text { Yatuo. } \end{gathered}$ |
| Germany |  | $\underset{2084}{5}$ | $\begin{aligned} & 368 \\ & 63 \\ & 168 \end{aligned}$ | $x_{0}^{2}$ | IU 24,004 | $\stackrel{\mathbf{x}}{\mathbf{8}, 308}$ |  | 8,293 | $\begin{aligned} & 1 \mathrm{iba} \\ & 33,465 \end{aligned}$ | $\underset{2,250}{x}$ |
| Holmand | 3,983 \%ax | 189837 | 1,941760 | 130 \#25 | 4,962,734 | 117,014 | 3.6\%5,696 | 284,744 | 4,108,316 | 279, 8 90 |
| France | 1,521 69\% | 181,501 | 5083 932 | 45350 | 1553.636 | 113,901 | 87e 168 | 68,176 | 60t 099 | 15,994 |
| United Statos of Ame rica | 99294 | $\begin{array}{r}\text { 7,807 } \\ \hline, 008\end{array}$ | 93,387 | 3,401 | - 360 | 45 | 19989 | 1200 <br> 100 | $\$ 011$ | +40 |
| Otbit countries | 18034. | 13 MOS | 10689 | 7,047 | 8,298 | 716 | 43,2091 | 3,309 | 8,1095 | 159 |
| Torat. | 3042,407 | 382,374 | 2,647,874 | 185,350 | 8,251,340 | 434,005 | 4,603,798 | 3 360,849 | 3,8:01457 | 830888 |

Bextres Wool (Sheep and Lambs') Exported from the United Kingdom-(conanued)

| OOUMTEIES | 1841 |  | IEN: |  | 1843 |  | 1844 |  | 1843 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quan ctiles | $\begin{gathered} \text { Dectaxed } \\ \text { Values } \end{gathered}$ | Quan utica | $\left\|\begin{array}{c} \text { Detlared } \\ \text { Value } \end{array}\right\|$ | Quan <br> Gtias | Doclared Value | Qusn tituce | Declared Yalue | Quan utice | Dielared |
|  | ${ }_{\text {the }}$ | $\mathrm{E}_{11}$ | 164 6,428 | ${ }_{304}$ | ${ }^{1651} 8000$ | ${ }_{875}$ | 3138 013,097 | 53 | ${ }_{4}{ }^{\text {Prat }}$ | 去10. |
| Hinliacd | 1055 | $65^{*}$ | 7763 | 1405 | \$4, 719 | 5473 | 410750 | 13 cm | 111689 | 0, 218 |
| gelgiom | 4544150 | ง92. 109 | 7815977 | 461582 | 10,202 170 | 325909 |  | \$20 dif | $4 \mathrm{Pl} \mathrm{F}^{2}$ | 2043 77 |
| France | 0897 | 61,679 | 710732 | 95,50\% | 1087700 | 80,682 | 1 58.3800 | 59187 | 4080,907 | 855067 |
| Ubited states of Murerica Other countritan | (2950 | ${ }_{7}{ }_{287}$ | $\mathbf{3}, \mathbf{0 8 8}$ $\mathbf{7}, 705$ | 4013 | 88 <br> 4,483 <br> 189 | 2,593 | 1463178 |  | ${ }_{5} 9103$ | $\begin{aligned} & 843 \\ & 819 \end{aligned}$ |
| Toralm | 8, (7) 35.5 | 35\% 6 ala | 8,578,091 | 509,529 | $01.9839{ }^{\circ}$ | 420,940 | 8,947,6101 | 535,634 | 9064,48 | 858 ${ }^{3} 949$ |

Quantitips of Wool of the Alpaca and Llama Tribe Imported moto the United Kingdom in the Year 1844, and of the Quantuties Re-coported dunng the same Period, and the Countries to which they were sent

| D日SCRIFTION | Quantitfes He-texported | Quantines Luxperided |
| :---: | :---: | :---: |
| Imported hato tho Eaited Kingdom He-entiv rted to Belgiund Prance | $\begin{array}{r} 7 \mathrm{Th} \\ 47769 \\ 480 \end{array}$ | $605 \pm 35$ |
| Tortu Quant ty Re-etported | 4.848 |  |

An Account of the Quantaty of Moharr (or Goat's Woot) Imported unto the Unted Kuggdom in the Year 1844, and of the Quantity Re exported dunng the same Penod, and the Countries to which they were gent.

| DEECRIPIION | Quantitues Re exported. | Quantlea 1mported. |
| :---: | :---: | :---: |
| Insported trive the United Kiogdom Be experted to | lks | $\frac{164}{1990 \% 4}$ |
|  | 2412 |  |
| Hsiland 8 ikium | 90835 94.40 |  |
| Prasee | 11310 |  |
| United blaten of Ambicas | 10239 |  |
| Torsl Quantaty Re-exportad | 97520 |  |

The woollen manufacture has long been one of the staples of France, and the excellent quality of French cloths has been generally acknowledged In some branches of the manufacture the French clothers have taken the lead, and to this day their finer woollens find a market in every quarter of the globe Under these circumstances, there can be no doubt that the quantsty of woollen cloth manufactured in France has increased with the growth of the population, and it appears from a table inserted $m$ the recent "Enquete," published by the French goveroment, that the quantity of these goods exported has also matenally mcreased during the last half century These facts are shown by the following statement of the quantity and value of wool imported, and of woollen goods exported, in the sears 178789 , and $m$ each year from 1812 to 1843 -

| \EAES | Wool Imported |  | Woollon Clothy Exported |  | YBARE | Wool Impozked |  | Woollea Clotid Kxported |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Werg t | 1 hlto | Wought | Value |  | Weight | Valte | Whitht | Value |
| 1747 | $\begin{gathered} 311 \\ 7912085 \end{gathered}$ | frar 173 max 1300 | kil | $\begin{aligned} & \text { frpach } \\ & 21 \text { H.11 f0n } \end{aligned}$ | 1829 | $\begin{gathered} \mathbf{k} 11 \\ 5,744194 \end{gathered}$ | franca 9275011 | ${ }_{1100744}^{\frac{k i l}{20}}$ | fratio at AOS, 14 |
| 1784 | friff 71 | 13544060 |  | \$ 1.60200 | $1 \times 30$ | 7814439 | 12,877 4132 | 1029472 | 27 500 13\% |
| 1789 | 6 sue cost | $1{ }^{1} 41600$ |  | 25704000 | $1 \times 31$ | 38345107 | 5, 43169 | 1 4504 | 24,944, 716 |
| 1812 | $7 \mathrm{JC2} 280$ | $30 \mathrm{C2}$ \% 885. | 1761281 | 24 303193 | 12032 | 4021594 | 7 \%nl $k 1$ | 18.34026 | 36, 30016 |
| 1817 |  | 20.308 .673 | $22 \times 9$ 17 | 27880842 | $i^{1873}$ | 3505702 | 10130549 | 1346997 | \$3509806 |
| 1814 | $\mathrm{tax}_{51} 1$ |  | 7015 8.pa | 1311294 | 1034 | 928059 | - 37914814 | 186247 | 30437014 |
| 1815 | 2 431 d4 | 53445793 | ${ }_{1} 3366$ | 5 D Dise 67 | l830 | 14 H 44530 | 34858,93 | 1510204 | 343851900 |
| 1610 | 8 3 514 0 0 | 8200038 | 2018 | Ans min 329 | 1683 | 13 tos 12 | 31890,637 | 20.88 .802 | 4919 478968 |
| 1817 | 5112411 | 11 14588 | 1 coleral2 | 4 N5E 53 | 1837 | 9 94i 468 | 18497420 | 1601072 | 43 428 afer |
| 1818 |  | 2316, 146 | 1359818 | 14 571453 | ${ }_{\text {l }}^{1838}$ | 14936779 |  | 221774 | di 400800 |
| 1859 | 9484 | 14.12647 | 1740795 | 40613161 | 1830 | 13.612150 | 31437089 | 2 2ra 0 0d | 651586194 |
| 1520 | 41012201 | $x_{1} 10405$ | $\square_{1}^{1}+3.4137$ | 433898060 | 1840 | 14,396341 | 29888784 | 2, crs 71 |  |
| isat | 8 \% 6601 | 111250384 | 1345746 | 39750591 | 1841 | 20333741 | +5607373 | 2511459 | 643125741 |
| 1 1923 | +117 31 | 15 Scirl 142 | 1161613 | 4052* 113 | :m+1: | 70951 Test | 49 did 8 B 7 | 2402543 | 68189108 |
| $1 / 23$ <br> $\$ 824$ <br> 8. |  | 9313876 | 1016261 | 35808911 | 20, 13 | $20.503,370$ | $4380 \% 770$ | 2, 3665 , 551 | 78, $510 \mathrm{St7}$ |
| 3824 | +10) yoc | T 1967984 |  | $30430,512$ $\text { ay } x^{2} 1130$ | ladd |  |  |  |  |
| ${ }^{\text {mat }}$ | 641522 | $10938 \times 87$ | , 1214 | $2+5484$ | 1816 |  |  |  |  |
| 1327 | 38185 | 111 Wr ${ }^{2 / 2}$ | 102.100 | 2369140 | 1847 |  |  |  |  |
| 18-d | 7 \%66 35\% | 133010 15 | $1058812+$ | zfods 73 |  |  |  |  |  |

FLAX, AND MANUPACTURES OF FLAY
Flar-This useful fibrous material for our linen manufactures is not impoited from British Indua Yet from the increasing production of flax seed, It is rither surpning that the fibre itself has not been mported At present we depend chefly upon Russia, Belgum, and Germany The mportations into Great Britain of flax seed from Bitish India commenced and increased as fullows -

| YBAES. | From Iedin | Frann ull Comotrios. | YEARS | Froter India. | Prom all Countriea |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | buskela. | buphels |  | buthels | burbels |
| 1838 | 10 | ) Das, 072 | 1841 | 199382 |  |
| 3833 | 2168 | 2.173134 | 154\% | 71784 | 3042400 |
| 1836 | 2, 335 | 2,110 237 | 1643 | $6{ }^{6} 024$ | 8004142 |
| 1835 | 327416 | 2, 3063748 | 1844 | 23thina | +015, 6 |
| 1538 | 7) ${ }^{2} 168$ | 3.339255 | He-s | 194 676 | 52.4544 |
| 1887 | 126532 | $3,3816.43$ | 18id. |  | 4049129 |
| 1888 | 78572 | 3136605 | 1847 |  | 3 168,403 |
| 3898 1840 | 103,959 20.909 | 4156017 | 14848 |  |  |

There ss no doubt but flax may be collected in many parts of the East, and, exclusive of the so called flax of New Zealand, we believe that this raw matenal may hereafter be procured from Assa and the lslands of the Eastern Archupelago - in considerable quantities

The mportations of flax and hemp, for which ummense sums are annually paid by our manufacturers, has hitharto been cluefly from Russia, Belgum, and Germany, $71 z$ -

Flax and Tow Inported minto the United Kingdom.

| GOUNTRIES | J83] | 1854 | 1838 | 14,34 | 1835 | 1836 | 1837 | 18.18 | 1889 | 1840 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hupan | C\%\% 08.85 | cwta 067 | $\begin{aligned} & \text { cuta } \\ & 7 T G, 809 \end{aligned}$ | cofth <br> 6(6), 875 |  | ${ }_{1037}^{\text {cinto }}$ | GFty 633020 | 1089838 | $\begin{gathered} \text { cuta } 1 \\ \text { tug } 108 \end{gathered}$ | cwta. 871401 |
| Demmark |  |  | 1014 | 2483 | 1308 | 2293 | 77 Pr | 1700 | 1, 71 | 104 |
| Frasin | 101739 | 14.1 tadid | 145304 | 103,940 | 04,587 | 180) 291 | 207095 | 171745 | 89154 | 135590 |
| Guramy | 7615 | 4, 108 | 41221 | 7704 | 1179 | 6,073 | 3,487 | 4,3113 | 2,597 | 450 |
| Holland |  |  | [ 4378 | 8115 | $1 \mathrm{H}+43 \mathrm{~s}$ | 184010 | 134916 | 303 609 | 16044 | 123108 |
| folgrum |  |  |  | 35426 | 72.781 | 119840 | 148958 |  | 1* | $80{ }^{6} 748$ |
| Franco | 4,394 | 3) 312 | 97147 | 7304 | 16102 | 25119 | 32587 | 53.493 | 78609 | 43295 |
| Bt Ulah Setilementhan Aa otration Qther places | $\begin{array}{r} 10,018 \\ 3,45 \end{array}$ | $\begin{array}{r} 18 \\ 857 \\ 837 \end{array}$ | 7626] | $\begin{aligned} & 4,598 \\ & +201 \end{aligned}$ | $$ | 1678 <br> 318 | 1,349. | 1151 | 2,028, | 000 |
| Tesal | 030414 | 982,316 | 123 630 | 817722 | 740,814 | 22, 110 | 1000 | 1640,776 | 1283,701 | 2Ad, 240 |
| Totut quantitles retained for homs onsumption in the United Eing lom | 97888 | 984,9891 | 112100 | 794979 | 788,143 | 51: 488 | 903654 | 1815,90 | 210811 | 1956 |

FlaX and Tow Imported anto the Unted Kingdom-(continued)

| COJNTK1ES | 1841 | 19420, | 1948 | 144 | 180\% | 1846 | 1847 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fureta | $9 \mathrm{ett}$ | owls 9947蛙 | conty | owts. <br> 1,118 02s | cwit | cwits. | Stutit |
| Egypt |  |  | 98948 | 30, 268 | 19414 |  |  |
| Denmark | A099 | 5,534 | B852 | 7 mfs | 18.103 |  |  |
| Pruabill | 110.685 | 149.6818 | 173859 | 549404 | 185.020 |  |  |
| Getmany | 10399 | 16319 97578 | 14870 | 119988 | 187\%88 |  |  |
| Hfollant |  | -97358 | 400088 | 108 che | 107 80.168 80.188 |  |  |
| Fripue | 295 mg | 17, 858 | [147] | 7276 | 11140 |  |  |
| Ofber places |  | 2,165 | 1618 | 5,004 | 15785 |  |  |
| Total. | 1,346, ${ }^{2} 43$ | 114515 | 148315t | 1,487538 | 1418.3 , 4.3 | 1197002 | 1-49,541 |

Silesia and Flanders formerly supphed Inginnd, and even Scotland, with henen yarns, and the finest lunens and damasks, -although for a long period, linen fabrics were made in Great Britam and Ireland Abaut the first year of the present century the first hnen mill in the United Kingdom was erected at Darlington The West Ruding of Yorkshire, and Lancashure, are the cheef seats of the manufacture of hnen and lenoes in England In Seotland, about 1,500,000 yards of linen are estimated to hava been made as far back as the period immednately before the Umon In 1750, it increased to 7,570,000 yards, and in 1800 to about $20,000,000$ yards In 1822, to $36,268,530$ yards, and since that period, although we have no exact account, the progress has been mereasing
both in spming and weaving，especally at Dundee－See Tables herenfter In Dundee alone the quantities are estimated at above $80,000,000$ yards The Insh lmen trade has also greatily mereased

The followng table will shon the quantites of men goods which were ex－ ported from Ireland in different years，from 1800 to 1825 ，subsequently to which year no account has been talaen at the custom houses of etther England or Ireland，of the commercial intercourse between the two parts of the kingdom

| YEARS | Grent Anltan | To Pornith Purta | Trand． | YB4R | Greot Pritain | Poreigni frarts | Topat． |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1800 |  | 2，343， 829 | Fprida <br>  | 1815 | yraivis 34 915 306 | yards． $20 \times 3$ 955 | yardy 57441231 |
| 1802 | 23.340943 | 4，3exi911 | 3561584 | 1820 | 40， 518270 | $\pi 294548$ | 4.613218 |
| 1004 | 3 ass 10t | り3．352\％ | 43140699 | 1821 | 40，w 19509 | 4041630 | 40531130 |
| 1806 | 85， 245480 | 288\％，4\％1 | 39126,341 | 1584 $=$ | 43280510 | 8.3740928 | 40，601703 |
| 1限昭 | 41454719 | 1，024 4.6 | 4 5999706 | 1823 | 4800601 | \＄1\％\％ 0 de6 | 51235597 |
| 1810 | 92， 5144545 | 4312745 | 86，898，270 | 1827 | 40406950 | 8000.477 | 4910377 |
| 1818 | 35076 | $2{ }^{5124645}$ | $25,065+50$ | 13鲄 | 32．559， | 9．054 6.87 | 6 113， 680 |
| 1814 | 79539443 | 自169， 763 | 43，003 226 | 1830 |  | 4720327 |  |
| 1835 | 77 96U359 | －196206 | 434102455 | 1827 |  | 4254569 |  |
| 1810 | 4434） 118 | 5298511 | 45n 3978 | 1829 |  | b，14，510 |  |
| 1857 | 30 qeg， 42 | 59473 | $569305^{\circ} 5$ | 1885 |  | $28800_{3} 123$ |  |
| 1818．4． | 4， 746364 | 6，178， 44 | 80，945， 208 |  |  |  |  |

It will be seen from the next statement，that a large proportion of the exports of linen from Ireland to Great Brotan has been re－exported to foreign countries．
Barsiss and Insh Innen and Saulcloth Exported from the United Kuggdom win each Year， from 1820 to 1833

| \％ $\mathrm{S}_{4} \mathrm{H}$ | Brtedsh Lines | Irinh Lamer | Eridiale Saileloth | Irinh Batlototh |
| :---: | :---: | :---: | :---: | :---: |
|  | gerdes | yapde | clla | clis． |
| 3 F 2 n | 29056,914 | 17433.419 | $1,226,335$ | 18117 |
| 1821 | 28， 899765 | 18 400 061 | 1，339 184 | 12163 |
| 182\％ | 27702820 | 15 93．${ }^{\text {a }}$ 75 | 1259.19 | 10039 |
| 1828 | \＄4624517 | 15705923 | 1206745 | 32，839 |
| 1824 | 43879893 | 17933,195 | 1593291 | 6r 185 |
| 1825 | s8 Edi ， 055 | 16，023149 | 1，A79306 | 51104 |
| 1885 | 83019428 | 10853407 | 4 443，984 | $5 \$ 178$ |
| 16.7 | 日8， 250760 | 14422496 | 221180 | 2－4， 13 |
| 1828 | 44，556，941 | 11 ret 003 | 2，984 898 | 89.905 |
| 1829 | 193 409 264 | 11024.918 | 1769,093 | 51856 |
| 1630 | 16．232 243 | 13 241269 | 1972311 | 㮽 350 |
| 1831 | 60． 79973 | 14，738，348 | 2，924 464 | 24185 |
| 1832 | 8.347198 | 0，060，367 | 2189387 | 1150 |
| 1893 | 81393,484 | 9，06t 27\％ | 8.299177 | 48085 |

Lines Exported from the United Kingdom in each Year，from 1834 to 1847

| TEAE8 | Sntaned by the Yand |  | Tibread Tapan， and Scmali Wanes | Tanen＇rarn |  | Total <br> Dechared Yaike |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yarde． | Peclered Vimlue | Declured Value | Pomucts | Decinred Valuo |  |
| 183 |  | 235＊991 | ${ }_{5}^{5}$ | 1534， 325 | 130，312 | ${ }^{\text {E }} 57988$ |
| 1890 | 7，7489 | 9．98139 |  | $241+215$ | 2103635 | 3208.779 |
| 1685 |  | 32381031 | is 104 | 4574504 | 318772 | 80.451097 |
| 3437 | 6k 410313 | 2，04，3 495 | 64020 | 8.373100 | $17+367$ | \＄ 80.04758 |
| 1838 | T13 0， 4 | 2\％1 079 | 102 298 | 14.5 | 746150 | 3040435 |
| 12999 | 84，$+3,442$ | 382720 | 12－747 | 1fu14 615 | 813 4．5 | 423842 |
| 1 l ¢ 4 | b． 175431 | \＄194 82才 | 111261 | 17732，775 | 742，476 | 412504 |
| $1 \times 19$ |  | 31107 | 14J 093 | 2K， 20.990 | 4F246 | $43200^{\circ 1}$ |
| I） 41 |  | 2， 17277 | 120376 | 241.59 S67 | 1，62\％ $5 \mathbf{5 1}$ | 3372700 |
| 1843 | 衴 1295 | 215306 | 1bt 697 | 23，356 3st | 829，829 | 3760,059 |
| 104 | 51837801 | \％ 01809 | 2． 21.101 |  | 14606 | 4075476 |
| 1021 | － | 81003 䊉 | $\rightarrow$ | $\cdots$ | 10 ari 30 d | －4064338 |
| 1 14tb |  | 283034 |  |  | 9 O 4） | 3503910 |
| 1447 |  | 2，96\％ $895^{*}$ |  |  | 650，307 | \％ 614208 |

－Incluxing smad waros

| Coumteiss | 18.81 | 1882 | 1883 | 1834 | 1838 | 1888 | 1887 | 1888 | 1899 | 1840 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 2 | $\pm$ | $E$ | 5 | 2 | A | $\mathcal{L}$ | 24 | 2 |
| Ratsls | 245 | 487 | 439 | 803 | 1，889 | 437 | 1077 | 754 | 2，4970 | 2，469 |
| Sweden | 97 | ${ }^{5}$ | 920 | 40 959 | 1095 | 148 | 104 | 188 | 80 | 499 |
| Norway | 3005 | 208 | D21 | 959 | 1090 | 1000 | 1470 | 3，493 | 3，336 | 3，780 |
| Demmark | 350 100 | 72 90 |  | 744 | 20 | 708 | 783 | 319 | S03 | 405 |
| Gramany | $5{ }^{5} \mathrm{E}$ S 8 | 8 4 8 | 1） 8 67 | 88158 | 18825 | 24.45 | 28，310 | $840 \%$ | 4 A .96 | 83.607 |
| Holland | 6488 | 8，144 | 2，445 | 4 4971 | 3240 | $\mathrm{E}_{1} 075$ | 8950 | 14，450 | 7617 | 10061 |
| Belgand | 1 ） 6080 | 8，14． | （ 4951 | 8685 | 92418 | ${ }_{11} 641$ | $8{ }^{\text {cop }}$ | 13，30 | 4 4 4 A | 6712 |
| Prances | 0878 | 16.018 | 18，718 | 2288 | 62，315 | $1113 * 8$ | 144548 | 271226 | 277689 | 220，447 |
| Portugl Proper | 25， 158 | 12，010 | 29887 | 81846 | \＄8，${ }_{\text {cki }}$ | 15787 | 27 442 | 30603 | 31008 | 30.551 |
| － | 8469 | 1 50， | $11 \pm 5$ | 1594 | 233s | 5014 | ${ }_{186}$ | 1111 | 836 980 | 820 |
|  | 22.533 | 20as sing | 200189 | 13． 108 | 12234 | 203518 | 151639 | 133293 | 123， 304 | 163030 |
| Cibritanaries | 4.969 | 2.14 | 3189 | 1828 | 1092 | 4784 | 3，438 | 524 | \％，185 | ${ }^{+971}$ |
| Gribraltar | 81345 | 36，611 | 2st 340 | 22，737 | 17904 | 23614 | 21082 | 90395 | 173424 | 218,976 |
| lubly and the Italian Lakonds | 19 270 | 10,382 2031 | 16,572 7152 | 址， 515 | Th196 | 46，575 | 85，792 | 50.15 | 70，807 | 62，142 |
| Iomian lainals | 2028 302 | ${ }^{2} 818$ | 7168 | 2815 | 15040 | 1774 | 2,867 1783 | 5,600 1.670 | 0,830 | 4015 |
| Moren and Gruek Inlands |  |  |  | 310 | 411 | 20 | 190 | 199 | 181 | O0．5 |
| Turkes | 781 | 1，926 | 2.356 | 916 | B，394 | 4，831 | 5，630 | 4959 | 0183 | 2）015 |
| Syram and Pateatioc |  |  |  |  |  |  |  |  | 8 | 140 |
| Cuypt Tuple Atgleta，med Moroceo | 175 |  |  | ${ }_{148} 8$ | 80 | $\underset{36}{415}$ | 1935 | 102 | 135 | 17 |
| Wentern Coast of Africs | 9，693 | 1654 | 1340 | 3594 | 2.511 | 459 | 1849 4.859 | －${ }_{\text {4，}}^{685}$ | J 2578 | ${ }_{1}^{408}$ |
| Oape of Good Hope | 12，398 | 0441 | 7126 | 0000 | 18，393 | 20297 | 13084 | 20，168 | 16014 | 1485 |
| Caper Verd Laiande |  |  |  |  |  | ${ }_{80}^{80}$ |  |  |  | 179 |
| St Hiolens fund | 407 | 2tat | s31 | 453 | 585 | 09 | 180 | 194 | 2 c 2 | 46 |
| Kasture Coxat of AMrima |  |  |  |  |  |  |  | 27 |  |  |
| Maurithas Inle of Euphon | 2，412 | 3，748 | 4090 | 8，724 | 6，612 | 11.19 | 7007 | 1474 | 7072 | 11268 |
| Arabja |  |  |  |  |  | 238 |  |  |  |  |
| Eaxat Indua Compony＇s Teriforien and Ceyino |  |  |  | 17，2383 | 1） 805 | 40 4 多 1 |  |  |  |  |
| Colna | ） 21,390 | 39601 | 27818 | （ 60 | 6,003 | 2819 | ${ }^{83}$ | ${ }_{3} 8427$ | 6\％ 6,104 | 68,700 2 |
|  | 576 | 2，704 | 3,170 | 0，679 | 165 | 1490 | 1788 | 4514 | 7800 | 15315 |
|  | 677 | 1，198 |  | 1100 | f 1 at |  | 6 mo |  | 170 | 18，85！ |
|  | 15，910 | 17874 | 26498 | 86790 | 13，509 | 85809 | 43724 | 818.354 | A 788 | 60－4 |
| Soath Sea minds | 3 63 | 46 |  |  | 22 |  |  |  | （ 985 | 40 |
| Britioh Aortit Amertican Colonits | 192430 | 97699 | 0¢，590 | 69．Anz | 118，839 | 130768 | 96， 174 | 10.832 | 113345 | 18978 |
| －Went fadies | 350378 | 810746 | 323102 | 321995 | 37134 | $40-1041$ | 等4， | 358,779 | 310838 | 184917 $3 \times 2.088$ |
| Hayt ${ }^{\text {che }}$ | 111 n78 | 136．930 | 50884 | 87497 | 118890 | 61638 | 34880 | 87101 | 84123 | 50， 100 |
| Cuba and other Poreign Wret Indtem | 113290 | 35，185 | 42 R93 | $801 \%$ | 10，248 | 28781 | R0， $\mathrm{Hax}_{8}$ | til 109 | 113640 | 1328926 |
| Onited Staled of Amenice | 1041 CR6 | 415150 | 890．30 | 10－17 74 | 2， 66188.85 | 568787 | 884 897 | 941581 | 1864008 | $9 \mathrm{FT}, 586$ |
| Mesico | 75197 | 15 4．56 | 61.014 | 65380 | 62，800 | ${ }^{17} 165$ | 6s 102 | 58753 |  |  |
| Gualermala |  |  | 1630 | 7） 410 | 12980 |  |  |  | 7 |  |
| Brazil | 24705 117374 | ${ }^{4} 85838$ | 102098 | 802 210 | 12930 | 838 198 | 90，483 | 3143 | 42,063 | 83150 |
| Ititas of cise Riade la Plata | 1817 | 52，279 | 98，017 |  | ${ }_{35} 635$ | 198304 | 19．4．3 | 10.845 | 211109 | 23138 |
| chali | 19350 | 11293 | $8{ }^{3} 735$ | 50904 | 21190 | 89307 |  |  | $4^{44} 386$ | $310 \times 8$ |
| Peru of | 28.08 | 23 chla | 41645 | 34411 | 2970 | 32306 | 54084 | 40， 4.64 | ${ }_{4} 518$ | ${ }^{1+546)}$ |
| （forelga goode） | 15044 | 17006 | 15，494 | 17706 | 17053 | 17283 | 10，019 | 1937 | 17637 | 22，971 |
| Toral | 2，461 704 | 177427 | 2107024 | 2，143349 | 2，992，143 | 3，326，345 | 2，1974， | 2.320272 | 3 4i， 50 | 3 logel cise |



| COUNTRESS TO WHICH RXPORTED | 194） |  |  |  |  | 1845 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LINEN MANUPACTUAES |  |  | LINRN YARN |  | LINEN MANUPACTURES |  |  | LINEV YARN |  |
|  | Enfered by the Yard |  | Thread Tapos and 8 math 3t area |  |  | Entered by tha Yard |  | Thread Topew and Smaill Weter |  |  |
|  | Gasontry | $\begin{aligned} & \text { Deflared } \\ & \text { Yalue } \end{aligned}$ | Dectared Value | Tuantiry | Drelazed Value | Quantity | Declared Volite | $\qquad$ | Quantite | Declered Value |
|  |  |  |  |  |  |  |  |  | 168 4.380 |  |
| （tandm |  | 3071 | 809 29 | 3，321 | 1078 | $\begin{array}{r}12,365 \\ 1.607 \\ \hline 1605\end{array}$ | 671 | 5，180 888 | 47805 7685 | 813 $\$ 83$ 583 |
| Sordeb | 1898989 | $\mathrm{Cr}^{277}$ | 1685 | ${ }^{3} 820$ | 40 | 163，${ }^{\text {ati }}$ | 6116 | 2.082 | 736 | 203 |
| $\mathrm{D}_{\text {pinami }}$ | 9005 | 361 | 19 | 11，900 | 888. | 17189 8183 | 894 | ${ }^{6860}$ | 21626 | 941 |
| Prusata | 98． 23 | 1.859 | ${ }^{5}$ |  |  | 31333 9.305037 | 881188 | G69．94\％ |  | ${ }^{42} 808$ |
| Crem ny | 057 24.4 | 31.990 | 20471 |  |  | 9，305 3033 | 83118 <br> 19 <br> 983 | 66， 314 |  |  |
| Relfama | As 408 | ， 303 | 489 | 0,5848 | 815380 | \＄36，226 | 19， 6.418 | 3，5at | ${ }_{1} 7538.376$ | 14， 481 |
| Bela | 74.47 | ${ }^{5} 770$ |  | 4， 42 ， 6 | $\mathrm{HF}^{1 / 20}$ | \％ 177778 | 102，412 | 6， 408 | l | \＄4， 803 414.350 |
| Frabce | 8.583 .43 | 3815 | 1985 | 20 33， 573 | 300，336 | 4，259， | 102， 4010 17993 | 403 | 9159188 | 811，230 |
| 1 artugal and Salapds Sput and tha Sateafic lslandi． | 809 4 49 | 27 239 |  |  |  | 750356 2,41956 | 179938 | 10.07 | 8， 02883808 | 1715939 |
| Sputh and the Brleafie lislandin | 1.934726 345069 | 18．508 | 31 | ${ }^{69} 809$ | $2{ }^{2}$ | 2097\％ | Stiba | 8 | 1036 |  |
| Gibraltar | 3， 215404 | 193270 | 797 | 95458 | C，569 | 243 3／by | 24 94s | 138 | \＄p0，031 | 明172 |
| Caiy and too kalian Ifiande | Dety 724 | $6{ }^{601}$ | S0\％ | 120， 368 | 10014 | $1384.4{ }^{-5}$ | 80180 | 2.537 | 800,944 | 42， 625 |
| Mrxita | 89390 | 4，072 | 15 |  |  | 140，746 | 7801 | 198 | 979 | 150 |
| format lelondo | 89787 | t 590 | 14. |  |  | 15723 | $\pm 80$ | 497 | 8.060 | 100 |
| Morea atd Groek 18lugat | 1338 | 147 | ${ }_{68}$ | 106 | 7 | 6278 453018 | 14765 | 488 | 783 | ${ }^{25}$ |
| Tricy | 92049 | 4．394 | － |  |  | 4，385 | 189 |  |  |  |
| Fgypt | T041 | 455 |  |  | ＊ | 15， 124 | 119 | 1 |  |  |
| Tripah，Twust Alplery and Moracro | 100008 | 59 |  |  |  | 2，00 | 130 | 25 |  |  |
| Wantern Cuatt of Africa | $00^{-23}$ | ${ }^{5} 179$ | 12 |  |  | 47401 | 1.977 | \＄29 |  |  |
| Cape of Grod Hope | 184975 | 12384 | 1618 |  |  | 601，354 | 20000 | 1，428 |  |  |
| Cape Yerd Lalands St Weleag | \} 060 | 8 |  |  |  |  | 10 |  |  |  |
| St Helens | $2 \times 1906$ | ${ }_{0.150}^{90}$ | 375 |  |  | 180.606 | 3，221 | 10 |  |  |
| Alatytus Company＇d Territones and Ceslon | 800 69 | 33513 | 3600 |  |  | 1900283 | 59885 | 1227 |  | 03 |
|  | 139623 | ＋190 |  |  |  | 337008 | 9，2\％ | 78 |  |  |
| （hine ${ }^{\text {che }}$ | 911816 | 89.986 | 1虭 |  |  | 209921 | 1193 | 388 |  |  |
| Aritsin Setilemunto in Atutralis | 971 \＄85 | 40.132 | 1790 | 1，044 | 108 | 1974 1296 | 60 197 | 1403 | 620 | 31 |
| Auw Zeatand | $\xrightarrow{245}$ | $\mathrm{mag}^{200}$ |  |  |  | 4351870 | 133，45 |  |  |  |
| Britith Morth Ameticad Colonies | $3,920,024$ <br> 814430 | 199754 | 17，979 | 112 | 0 | 4938193 | 329365 | ${ }_{3}{ }^{3} 6$ | 896 | 5 |
| 11 yfi \％ | 2.21494 | 54801 | 的 |  |  | \％fusy 224 | 08617 | 413 |  |  |
| P reige Weat lodian Calonies | 3172,503 | 134153 | 6127 | 1300 | 90 | 10037426 | 807573 | 6，07a | 2000 | If |
| Ufitted States of Atmertion | 310000007 | 18.80 .584 | 82 160 | 22，353 | 409 | 25，983， $4 \times 2$ | 850 342 | 48167 | \＄ 269 | 2， 269 |
| Tenka | 5685 | 12） |  |  |  | 954 | 830 | 37 |  |  |
| Mitrion | 188） 2.50 | 078 | 407 |  |  | $4 \times 3680$ | 177643 | 413 | $40^{-3}$ | 197 |
| Cuatemals | 67408 | \＄384 |  |  |  | Y 40504 | 30463 | 412 |  |  |
| Columbta | 1.064394 |  | \％ 735 | 8，000 | 140 |  |  |  |  |  |
|  | － | 243188 68420 | 8，493 | S， |  | 10.581404 | 84738 | 1081 |  |  |
| Stalun of div de la plaza | 20．93，4．50 | 36.408 | 107 |  |  | 1173 | 44727 | 338 |  |  |
| 1 cru | 1，441，655 | 00001 | 887 |  |  | $1,82513,504$ $43+1306$ | 61580 | 070 |  |  |
| Inlch of Guerwey lersey Alderney and Man | 85994 | $1 \geqslant 010$ | 470 | 48 | 2 | $4 \mathrm{M}+306$ | 20476 | 280 |  |  |
| Toril | 90341781 | $3200,46 t$ | 117.488 | 25， 270,290 | 972，466 | 38， 601 gito | 83974 | 205，580 | 29.485 | 1，660 864 |

Statement of the Pinces of Lanen yarn ond of Caniage (Vo 37) and of the Fages pad at Leeds for Weang the sime in each I car trom $1 \times 13$ to 1833 indurve

| DESCRIFTON | 1915 |  | 1814 |  | 1A1* |  | 1816 |  | 1817 |  | 1815 |  | 1819 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aremge wize of on a crage butnde of yars catsonated in licus of $3(\mathrm{~m})$ vartis P4 [1b | 111 |  | 111 |  | 111 |  | 112 |  | 11. |  | 113 |  | 116 |  |
|  | 5 |  |  | $d$ |  | $\sigma$ |  | $d$ |  | 6 |  | $d$ |  | $d$ |
| badalo of jarm |  |  |  | 5 |  | 7 |  | 1 |  |  |  | + | 3 | 10) |
| A ages of Eien ont a piece of connakn Nosa Wit ctree wid 11 threade marp 17 wetir $p$ riach |  | 8 | 2 | g | 2 | 10) | 2 | $\theta$ | 2 | G | 2 | 8 | 2 | 8 |
|  No 1 |  | 0 | 30 | D | 23 | 0 | 21 | 0 | 20 | 6 |  | 3 | 27 | 0 |

Statwanty of the Prices of Lanen Yutn \&e-(contunued)


Statement of the Prices of Laen Yam, \&e -(confonued)

| טESCRIPTION | 1897 | 142县 |  | 1896 | $1 * 30$ |  | 124 |  | 1532 |  | 1833 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A erage muze of an a crage bumalo of <br>  por ib | 200 | 22.5 |  | 24 | 200 |  | 270 |  | 218 |  | 371 |  |
|  | * |  | d | - | ${ }^{4}$ |  |  | $d$ |  | d |  | $d$ |
| butide of ys <br> W \& of wes mag a pece of crmpase |  |  | 5 |  | 10 |  | 11 | 1 |  | 3 | 10 | 9 |
| iv 37 tr hostue wille to direade warp <br> 1) wefít periach |  |  | - |  |  | 6 |  | 0 |  | 5 |  | 6 |
| Sculing poce af a plece of satyath N 37 |  |  | - | 16 |  | 0 | 10 | 0 |  |  |  |  |

Statemevt of the Weelly Rate of Wages padin a Ilax Spinang Mill year Leeds, in the leat 133 ?


The above rates had been nearly stationrri during the preceding twenty years
The umprovements made in the operation of flay spuming in England are rendered sppaient in a very important manoer, by the fuct that we are now large exporters of lnen-parn to lreland, and even to France thr earlest shipments to the futher country acre made in $\mathbf{1 8 3 3}$, and amounted to onl $76,512 \mathrm{lbs}$, but the quatit riputly incremed until 1842, when it racherd 22202,292 lbs

The fillowing table exhbits a considerable morease in the consumption of foregig grounfla during the last ten or fifteen yeus, but it is probable that the
growth of the article in this country has，in the meantime，expenenced some diminution

| YRARE | FLAX | YEARA | PLA X | Y BARS | FLAX |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 16\％ 0 | cwitito | 1829 | 902\％ 9008 | 11837 | Swty |
| 3 g 21 | 491883 | 1890 | 935112 | 18599 | 16.51005 |
| 169\％ | 007540 － | P181 | 918，888 | 1639 | 1216．4t |
| 1623 | 55.530 y | 1538 | 904 80 | 18180 | 1556.322 |
| 1824 | 739651 | 1833 | 1119190 | 1981 | 1，53＊213 |
| 1825 | 1018637 | 1834 | 794272 | 11818 | 1130,312 |
| 1828 | 69748 | 1638 | 742，006 | 18943 | 1972，9\％2 |
| 1827 7629 | 696,899 883,289 | 1836 | 151148 | $1^{1844}$ | 1，983，328 |

Trread of Flax and lunen entered for Cousumption in France

| Y A A | OOLONRED |  | W H 1 T E |  | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prem Bugland | Total | Frem England | 7atata |  |
| 1RS | $\begin{gathered} \text { y, og rammed } \\ 13400 \end{gathered}$ | Kalogrambers． 707800 | $\begin{gathered} \text { k!ogrampsev } \\ 11200 \end{gathered}$ | Kalogrammes 114300 | Lilogrnmmes （2） 100 |
| 1＊33 | 2，94000 | 1144,900 | O6， 700 | \＄0000 | 131600 |
| 1834 | 679800 | 1423,300 | 108000 | 238，900 | 1 dul 500 |
| 1805 | 1181900 | 1，802900 | 112，800 | 213500 | 2076400 |
| 1836 | 15157400 | 9414400 | 151500 | 26．5 4000 | 21989800 3.85000 |
| 1837 | 2，857 000 | 3472,900 3716700 | 297300 | 403,000 344800 | $3.88,80010$ 6,751800 |
| 18.58 | 4787700 $4.652,900$ | 6716.700 6076400 | 444700 6342009 | 344 800 （4ations | 6,781800 E 57 480 |
| 1839 | $5,582,900$ $5 \times 49$ | 6076400 6874800 | 632,800 40,700 |  | $5 \% 54800$ $6+51500$ |
| 1804 | S， 373,400 | 3,030400 | 771600 | 825，900 |  |

Declaried Value of Apparel and Slops Exported from the United Kingdom

| OGUNTRIES | 1851 | 1439 | 1813 | 1894 | 1835 | 1835 | 1837 | 1838 | 1883 | 1840 | 1945 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\pm$ | 建 | 4 | $E$ | 5 | 4 | 5 | 4 | $x$ | $\pm$ | 5 |
| Rusalm | 907 | 1713 | 1152 | 1778 | 1972 | 1274 | 841 | 1387 | 3，196 | 1，732 | 9， 667 |
| Spedea | 160 | 354 | 5138 | 460 | $\mathrm{CSH}_{4}$ | 960 | 10 \％ | 6781 | 1 1024 | 504 | 041 |
| Rorway | $\pm 450$ | 1，210， | 2504 | $20^{4} 5$ | \＄739 | 2， 880 | 1318 | 2795 | 1988 | 2.203 | 3.5408 |
| 5eamalt | 570 | 378 | 41 | Hes | 181 | E0．${ }^{\text {a }}$ | 2 z 20 | 268 | 150 | 387 | 241 |
| Prumais | 255 |  | 187 | 69 | 141 | $2+9$ | 147 | 38. | 183 | 189 | 286 |
| Germany | 7 839 | 10 0ess | 11843 | － 143 | 13，68 ${ }^{\text {1 }}$ | 11415 | 12，\＄05 | 14125 | $22 \times 000$ | 22550 | 17672 |
| Malland | 14，165： | 12036 | F 20541 | 14.774 | 15，898 | 19073 | 521005 | 13001 | 15505 | If，506 | 13，509 |
| Felsitum | 18， 6 | 120 | ［ 3846 | 4301 | 6161 | 5143 | 4491 | 6，889 | 8，298 | $4 \mathrm{ra}^{-3}$ | 4.75 |
| Pramee | 5，Th易 | 11，507 | 17057. | 10256 | 12， d $^{3}$ | 1＇5 8.47 | 18714 | 17898 | 78， 594 | 92069 | 29.49 |
| Portugal Preper | 1640 | 3 3 3 ， | 13873 | $15 \mathrm{H0}$ | 13935 | 10，619 | 407 | $3+80$ | 4984 | 4120 | 38409 |
| －－Azores | 1309 | 7，609 | 1106 | 1706 | 172i | 2，a63 | 1290． | 305 | 4300 | 1475 | 1770 |
| －Majeina | 2171 | 1476 | 2,103 | 2.31 | 3， 035 | 3085 | 1919 | 1 \％19 | 90.39 | 1500 | 1516 |
| mpain | 6.243 | 2，053 | 9808. | \＄104 | 9515 | 20829 | $1+79$ | 1316 | 2004 | \％410 | 3，438 |
| －Corn | 433 | 184 | 246 | 397 | 543. | s做 | 579 | 383. | $5 \mathrm{B4} 4$ | 844 | 12406 |
| Gibmitar | 8870 | 4,398 | 129013： | 4，236 | 6，623 | 9，2012 | 0398 | 13，45\％ | 15，599 | 12，${ }^{58}$ | 14018 |
| Italy and the Italfan Ialands | 0， 049 | \＄，010 | 7,218 | 6777 | 7203 | 6， 3 故 | 4162 | 是674 | 9．49 | 7870 | 10965 |
| Mrite | 180t | 1515 | 1903 | 2154 | 3 0xd | 3，24 | 169 | \％ 014 | 3． 5.30 | 3 tat | 15700 |
| fodian Priandt | 1980 | 2 296 | 2 c 41 | 91048 | 2181 | 2，309 | 9210 | 1470． | 30.45 | （2，\＄03 | 3，918 |
| Turtiny |  | 4792 | 2，931 | 4 ld | 3360 | 5.410 | 79， 96 | 5，519 | 5359 | 4090 | 10，724 |
| Pgypt | 0063. | 100 | 741 | 335 | 705 | 1115 | 5 st | B08． | 1488 | 1431 | 25.450 |
| Hexiteras Canst of Airlea | 10176 | 7250 | 込 | 0044 | 81816 | 10761 | 7470 | ［ 988 | 1） 060 | 8.710 | 10909 |
| Capu of Good tiope | 14．311 | 39830 | 21： | \％ 304 | 全他3 | 12，415 | 44139 | $44^{49} 9$ | 40471 | 4580 | 153 149 |
| Et Helena | 3088 | 1146 | 7895 | 4 fipl | 7375 | 2）${ }^{\text {che }}$ | 1 m | 8081 | 2 去t | 14t | －3． 36 |
|  | 7.515 | $\pm 5761$ | 9 483 | 518 | \＄193 | 17.506 | 12419 | 24659 | 11453 | 17.350 | 14809 |
| Patk Iadice tr Coyton | 4 tan ， | 5741 | 28，778 | 2610 | 4167 | 69 | 80 vis． | 61， 645 | 7770 | 90.31 | 10.515 |
| Java \＆ce | 10，${ }^{\text {a }}$ | 845 | 769 | 631 | 1403. | 1051 | 05.5 | 404 | 473 | 1601 | 3.045 |
| Cuta |  |  |  | 672 | 18.29 | ［1017 | 1245 | ＊ 741 | 1544 | 1，489 | 7103 |
| British auctratio | 77933 | 70315 | 87680 | 12980 | 117000 | 169711 | 173，512 | \＄25 774 | 972．432 | 270 th | 974日St |
| Ncw Reainod＊c | 882 | 46 | 115 |  | 614 |  |  | 70 | 2 245 | 0801 |  |
| Arctish North Ame nen | 1087529 | 101 积8 | 1592，（10）6 | 1293147 | 175084 |  | 703 | 150 | 200805 | 200 24 |  |
| 碞ntuth Mrast Indite | 189 318 | 180235 | 196737 | 808251 | 23，746 | 430 192 | 209 159． | 256，046 | 200， 30.06 | 231 90\％ | 259，78 |
| 10yti | 2，021 | $8 \pm 24$ | 1 126 | \＄13 | 1120 | 1792 | 328 | 412 | 824 | 689 | 518 |
| Cuba and Foreqga Weal Indied | 9130 | 17017 | 12，654 | 12673 | 1790\％${ }^{\text {a }}$ | 12643 | 15.089. | 10834 | 10．899 | 6，912 | 9753 |
| Waited 8tates of Amence | 130 383 | \＄1 477 | 127911 | 106，983 | 229 251 | 254809 | 751 | 164151 | 180，010 | 109372 | 149750 |
| Hicyico | 5 211 | 817 | 1840 | 1189 | 4074 | 2700 | 3148 | 388 | 1160 | 10， 2,514 ， | 2076 |
| Colatalasa | 144 | 1，rus | 1277 | 9，371 | 768 | 7in） | 403 | 㑒哊 | 924 | 609 | 2309 |
| Braml | 9，961 | 4 ¢，905 | 14） 0 | 16，434 | 20,008 | 28439 | 14，036 | 11 876 | 13，867 | 15，021． | 14841 |
| Stelen of the Rio co Ia Plate | 4，317 | 6，063 |  | 9096 | 8980 | © 681 | 2111 | 1545 | 3，45t | 499 | 0.396 |
| Gndid． | s 130 | 4898 | 2664 | 7，388 | 2，210 | 5279 | 51880 | 9.969 | 4811 | 7181 | 1154 |
| Pera | A 038 | 2198 | 6． 009 | 5015 | 8， 512 | 2 413 | 481 | ${ }_{4} 97$ | 1578 | 3，39s． | 30，769 |
| Cbandel Isianda | 13，214 | 14，196 | 11176 | 18，915 | 11486 | 16，589 | 10.615 | 18.651 | 18609 | 10，509． | 50574 |
| Other plecers． |  | 0 | 120 | 370， | 相 | 611 | 443 | 989 | 345 | 73 | ］248 |
| Toris． | 700 2985 | $71234 a$ | 760161 | 758，24311 | O14，53t | 291，379 | 950981 | $100.37 t 1$ | 359，437 | 2088， | 89， 7 ， 56 |

The proportions in which persons of defferent ages were employed in each woven branch of industry, in 1835 and 1839, were as follows -


|  | Cottoo |  | Woollen |  | Flat |  | Silk |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1535 | 1830 | 1835 | 1839 | 1635 | 1839 | 1835 | 1880 |
| Malut <br> Fematich | per cedt 457 54.3 | $\begin{aligned} & \text { per rente } \\ & 435 \\ & 805 \end{aligned}$ | $\begin{gathered} \text { per cent } \\ 525 \\ 475 \end{gathered}$ | $\begin{gathered} \text { pereent } \\ 483 \\ 613 \end{gathered}$ | $\begin{aligned} & \text { par ceat } \\ & 91 . \\ & 68-8 \end{aligned}$ | $\begin{gathered} \text { per cent } \\ 296 \\ 64 \end{gathered}$ | $\begin{gathered} \text { par eeat. } \\ 329 \\ 664 \end{gathered}$ | $\begin{gathered} \text { par zont } \\ 317 \\ 483 \end{gathered}$ |
|  | 1000 | 1000 | 1000 | 1000 | 1006 | 1000 | 1000 | 1690 |

The returns of 1835 , in regard to the mechancal power used in factories, did not allow of precise calculations with respect to the proportions in which that power was used as compared with the number of persons employed The following abstract gives only the information from the returns, both in 1835 and 1839

| DEGCRIPTION <br> of pactories | 1833 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Namber of Factories the Powner of which If given | A amber of |  |  | Horae-power of Elegn Qugiaed and \% ater Whath |  |  | Number of Horees 1 oustactstally Bra ployed | Number of <br> Pextody Fim pleyed in <br> Vactertes the Power of which is siven |
|  |  | $\begin{aligned} & \text { Steam } \\ & \text { Engract } \end{aligned}$ | Water B heels | Torat | 8team | Water | Totat |  |  |
|  | No | Na 1000 | N0 479 | No |  |  | ${ }_{\text {Nas }}^{\text {Nitos }}$ | Na |  |
| 4 Hen | 740 | ${ }^{1029}$ | 419 | 149 990 | 77633 | 6573 4783 | cotios | 8301538 | 172 4005 |
| $\mathrm{m}_{3}{ }^{2}$ | 00 | 35 | $\stackrel{3}{4}$ | 110 | 178 | - 829 | 130 $2 \times 4$ | 118630 | ${ }^{41} 1085$ |
| Sar | 131 | 118 | 41 | 139 | 1363 | 939 | 1874 | 140 | 18,390 |
| J 4 | 104\% | 1201 | 2487 | 9739 | 10.83 | 12:38 | $5+56$ | 47898 | 250590 |



From these figures at appears that the number of persons employed for each mechamcal horse power at each period, was-

|  | 1815 | 14893 |
| :---: | :---: | :---: |
|  | ```mumbicer ``` | muander <br> Sid mearys <br> 11 |

The larger proportion in the silk mills anses from the greater number of young persons employed

The progress of our textule manufactures during the pertod of four years will be apparent from the following statement of the nucrease or decrease in 1839, as compared with 1835, of the number of factones at or out of work, and the number of persons employed in each division of the United Kingdom -


Statement of the Number and Power of Flax Factones in Operstion in different Parts of the Unted Kingdom, with the Number and Ages of Persons employed therenn in the Year 1839


Statement of the Number of Flax Factones in Operation in the differeat Parts of the United Kingdom, with the Number and Ages of Persons employed theren in 1835


Retuen of the Total Number of Persons employed in Cotton, Woollen, Worsted, Flax, and Sulk Factories, respectively, in England, Scotland, and Ireland, aud the Total Number m the United Kugglom showing the respective Numbers of Males and Females, the Number employed under Thurteen Years of Age, the Number between Thurteen and Eighteen Years, and the Number above Eighteen Years of Age, elso specifying the Numbers in each County

ENGLISHFACTORIES

| covntirs | OOTTON |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Vadier Thirteen Yoars of Age |  | Between Tbirteen <br>  |  | Abote Krybtern Yogr of Ago. |  | Torse |  |  |
|  | Mates | Ferables | Matam | Pamalcs. | Halcs | Femalics | Malat. | Females | un altan and Fomsios. |
| Cbester | $\begin{gathered} \text { namber } \\ 1007 \end{gathered}$ | $\underset{\substack{\text { numbers } \\ \text { S69 }}}{ }$ | $\begin{gathered} \text { nuxabior } \\ 4,515 \\ \hline \end{gathered}$ |  | $\begin{aligned} & \text { namber } \\ & 12,14 \end{aligned}$ | $\begin{array}{r} \text { number } \\ 14096 \\ 36 \end{array}$ | number | $\begin{gathered} \text { number } \\ 90,269 \\ 99 \end{gathered}$ | $\begin{gathered} \text { namben } \\ 98 j 08 \\ 194 \end{gathered}$ |
| cupborinod | 44 | 20 | 23 ! | eas | 628 | ${ }^{957}$ | ${ }^{187}$ | 1625 | 2,402 |
| Derry | 611 | 548 | 1470 | $\begin{array}{r}2958 \\ \hline 95\end{array}$ | ${ }^{2760}$ | 4070 88 | ${ }^{1741}$ | 5, 18.818 | ${ }^{14} 6098$ |
| Ylint | 11 | 11 | ${ }_{201}^{298}$ | 835 | 248 | ${ }_{789}$ | ${ }_{4 \times 4}{ }^{97}$ | 136 1085 | - 2373 |
| 1 Anctater | 782 | 6635 | 24.401 | 33885 | 57548 | 71903 | 0,771 | 111903 | 201873 |
| Lefeerter | 4 |  | 36 | 92 | 178 | 26 | 911 | 367 | ${ }^{8155}$ |
| Maddlesat |  |  | 115 | ${ }_{7}^{87}$ | 131 | 161 | 248 | 248 | 497 |
| Norroit |  |  | 13 | 28 | ${ }_{6}^{43}$ | 898 | 398 | -89 | ${ }^{160}$ |
| Noedidgham | 1 | 4 | 136 | ${ }_{3}^{408}$ | ${ }_{405}$ | $\underset{70}{89}$ | ${ }_{6}^{393}$ | 1, 1263 | ${ }_{1}^{1580}$ |
| ${ }_{8} 8$ Surrer | 4 | 4 | 104 | 309 |  |  | ${ }_{81}^{614}$ | 188 8 | 1803 88 |
| Whrey |  |  | 13 | 11 | 19 | 28 | ${ }^{32}$ | 0 | ${ }_{168}^{198}$ |
| Yerk | 1207 | 927 | 2340 | 8,101 | 4 sk | 4890 | 7892 | 8,839 | 16,730 |
| Totalior Rngland | 10733 | 6sls | 3s,844 | $4{ }^{4} 8$ | 7878 | 28, 900 | 123,380 | 159,708 | 977088 |

Enolsa Factorigs-(contarued)

| COUNTIES | W ORET E |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under Tbirteen Yeara of Age |  | Beiween Thirtaen end Bightecn Yeara of Age |  | Above Buthteen Years of Ago |  | 70\%4t |  |  |
|  | Malas | Pemates | Molea | Pemintas | Males | Formalas | Mates | Fensaler | Malen qua Fithalus. |
| q3aper | number | bumbit | atirimek | thumber | tumber | cumbur | turiber | nomber | Lumibear 110 |
| Dartinim | 44 | 29 | 5* | 16 | 79 | 230 | 132 | 456 | 2354 |
| Lancaster | 31 | $\boldsymbol{\wedge}$ | 40 | 64 | 98 | 91 | 161 | 179 | 3410 |
| Le cetler | , | 4 | 947 | 291 | $4{ }^{4} 7$ | 759 | 736 | 1034 | 1 1 ${ }^{16}$ |
| N idtertx |  |  | 15 | 1 | 9 | \% | 4 |  | $1{ }^{9} 7$ |
| Narfolk | 17 | 在 | 83 | 809 | 106 | ${ }^{3}$ | 200 | -139 | 1315 |
| Narthemptorn | - | 10 | 7 | 19 | 34 | 19 | 48 | 47 | 98 |
| Natt ghafa |  |  | 3 | $3{ }^{3}$ | 15 | 14. | 18 | 47 | 05 |
| Stafford |  |  |  | 2 | 16 | 16 | 16 | 18 | 34 |
| Surrey |  |  | 3 | ${ }^{15}$ | ${ }_{8}^{8}$ | 47 | 14 | 43 | ${ }^{\mathbf{d} 46}$ |
| Yask | 3963 | 8794 | 3085 | 9863 | 6362 | 19,9048 | 18,700 | 33,509 | 47,499 |
| Toratir Bnglead | 343 | $36 \times 4$ | 4452 | 10.767 | 7724 | 28.012 | 14,184 | 3*,6tt | 14792 |

Enghar Factories－（contanued）

| COUNTIEs | Ender 7h reen Yate of AE |  | Fermenn 1 mirt $x$ ahd the hteed heare of Age |  | Ato \＆Eiglite E Years $1 \mathbf{1 m}$ |  | TOTAL |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Maler | Peare cy | Wales | Femalis： | Moles | Ytumals | Males | Femaley | Malen and Fenal |
| Brezon | wurater | nutio $r$ | Dumber | number <br> 10 | napober 37 | number <br> 9 | $\begin{gathered} \text { number } \\ 62 \end{gathered}$ | number $19$ | nomit |
| Ca d gra | 5 | 1 | 13 | 5 | － | 8 | 25 | 16 | 41 |
| Cr arthed | 3 |  | 3 | 25 | 31 | 13 | 74 | 37 | 111 |
| Ctesar | 14 | 5 | 16 | 4 | 45 | 4 | T3 | 33 | 103 |
| Cimberiabd | 4.3 | 16 | 31 | 63 | 11 | 12 | 185 | 11 | 304 |
| D abigh | 18 | 1 | 33 | 29 | 160 | 4 | 4.1 | 74 | 30， |
| Gerby | 4 | 1 | ＊ | 1 | 19 | 3 | ${ }_{4}$ | 5 | 31 |
| $\mathrm{D}_{2}{ }^{\text {m }}$ | 11 | 38 | 95 | 308 | 232 | $6 \%$ | 348 | 1174 | 1484 |
| Dermet |  |  | so | 14 | 25 | 30 | 43 | 40 | 69 |
| F is |  |  | 2 | 1 | 1 | ＋ | 3 | 4 | 5 |
| C）in u | 6 | 6 | 30 | or | 71 | 3. | 107 | 119 | 210 |
| （i）exter | 28 | 12 | 483 | 8.0 | 1583 | 19： | 2491 | 2．47 | 5，302 |
| H2 ${ }^{\text {¢ }}$ |  |  | $g$ | 1 | $\pm$ |  | 4 | 1 | 5 |
| Himefd |  |  | 8 | 7 | 4 |  | 6 | 7 | 13 |
| Imbeat | $30 \%$ | $\mathrm{ta}^{-}$ | 981 | $10 \%$ | 2943 | 1 cHs | 4601 | 3370 | 9971 |
| Late ser | － | I | 97 |  |  | 60 |  | 107 | 195 |
| L Desin |  |  | 7 | 3 | 4 | 3 | 1 | ${ }_{5}$ | 17 |
| 4 riofeth | 4 | 5 | 3 b | 17 | \＄3 | 28 | 75 | 30 | 175 |
| At 411 wen | 2 |  | 34 |  | 156 | \％ | 202 | 89 | 230 |
| Ments ib | 3 | 1 | 13 | 27 | 47 | 19 | E0） | 4 | 11 |
| Afontzornery | 32 | 13 | ${ }^{4} 38$ | 125 | 239 | ${ }^{3}$ | ＊8\％ | 221 | 74 |
| Nort lik | 10 | 3 |  | 110 | 99 | 16 | 46 | 2R | 7． |
| A arid umberland | 2 |  | 1 | 1 | 7 | 7 | 16 | 8 | 18 |
| Ont rd | 2 | 3 | 71 | 73 | 104 | 63 | 18. | 145 | \＄97 |
| Roulngr |  |  | 1 |  | 9 | 1 | $3{ }^{3}$ | $\pm$ | 4 |
| Salop | 14 | 4 | 58 | 15 | $14^{2}$ | 63 | 207 | 82 | 450 |
| Sinm raet | 24 | 14 | 383 | 388 | 715 | S | 1125 | 1003 | 2，1600 |
| Surrey |  |  | 40 | ${ }^{8}$ | ${ }_{1} 8$ | 8 | 123 | 10 | 135 |
| Whatmoreland | 4. | 51 | 59 | 230 | 120 | ${ }_{8}^{80}$ | 224 | 68 | $4{ }^{463}$ |
| Wiltr | 7 | 1 | ${ }_{6}^{67}$ | 1414 | 1753 814 | ${ }_{8}^{877}$ | 10039 | 1.35 | 3769 |
| York | \＄222 | 2738 | a 36 | S／46 | 14029 | 6，546 | $2{ }^{2} 9605$ | 14130 | 28.838 |
| Toral for Eneland | 4100 | 508 | 10854 | 1 5203 | 23，135 | 13，40t | 35968 | 24728 | 加盛7 |

 Mod Fortited

Encish Factolirs－（contunced）

| COUNTIES | FLAX |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thicr Thirten Yoare of Age |  | Betwoon Thirtoen and Eghern leart of Ag |  | Abofe Eifktoen tears of Age |  | Totat |  |  |
|  | Males | Feunles． | Maten | Pomakt | Nales | Pemalea | Males | Pemslea | Maler end Pemateran |
| Cumberland | number $\substack{\text { ate }}$ | number \％ | $\underbrace{\text { numbins }}$ | $\begin{gathered} \text { numiser } \\ 1 / 3 \end{gathered}$ | number 151 | $\begin{gathered} \text { number } \\ 309 \end{gathered}$ | number 248 | number 445 | $\begin{gathered} \text { number } \\ 6 B 9 \end{gathered}$ |
| Derby | 4 | 13 |  | 20 | 4 | 81 | 22 |  | 110 |
| Is on |  |  | $\pm$ | 5 | 11 | 38 | 13 | 38 | 31 |
| Dereet |  |  | 48 | 111 | 968 | 342 | 136 | 453 | 839 |
| D h d | 10 | 7 | 14 | 32 | 43 | 124 | 0.1 | 101 | $\pm 25$ |
| Glouct levt |  |  |  | 37 | ＋ | 47 | 11 | 84 | 94. |
| Hat |  |  | 5 | 47 | 7 | 37 | 10 | 84 | 94 |
| 5 nt |  |  | 34 | 10 | 33 | 28 | ${ }^{6}$ | 58 | 120 |
| taxater tir | 78 | 55 | 319 | 568 | 354 | 2173 | 745 | 1796 | 9，485 |
| Muid 1 | 1 |  | 30 | 14 | ＊9 | 65 | 113 | 77 | 190 |
| No 山umilutiend |  |  | ${ }^{60}$ | 155 | ${ }^{78}$ | 108 | 138 | 957 | 393 |
| Aalop | 51 | 31 | 99 | 107 | 200 | 236 | 358 | 389 | 41 |
| Estratrite | 3 |  | 3814 | 137 | 5 | 237 | 118 | 974 | 478 |
|  | 3 |  | 33 | 11 | 50 | 17 | kut | 38 | 127 |
| $\begin{aligned} & \text { W traoreland } \\ & \text { Witig } \end{aligned}$ | 20 | 23 | 35 | 75 | 198 | 714 | 187 19 | 814 | 601 10 |
| Yort | 626 | 87 | 1559 | 3056 | 253818 | 4491 | 4710 | 6135 | 12，812 |
| Torat for England | 836 | 751 | 3365 | 4817 |  | 7518 | 7098 | 127 ¢2 | 19，840 |

Esambe Factoribg－（coramued）

|  | BIILS． |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Upder Thirteea Yeary of Aest |  | Betreen Thirtaea and kigbteen itapt ot $\mathrm{H}+\mathrm{e}$ |  | Above Eighteen Years of $4 \mathrm{~g}^{\circ}$ |  | Toxam |  |  |
|  | Male | Pemoles | Mallat | Persalita | Salea | Pewtiter | M | Fermaled | Mates and Ferculed |
| Eucia | $\begin{gathered} \text { munber } \\ 30 \end{gathered}$ | namber | 4umiove | bataber | Napuber | Dumber 59 | nambior | numlurt | $\left\{\begin{array}{r} 20460 \% \\ 201 \end{array}\right.$ |
| Chester | 142． | 1640 | 1934 | 230 | 2－93 | 4 4 4 ¢ | 5701 | 0 ths | 14，169 |
| Darig | 256 | 375 | 504 | 1084 | 737 | 1.439 | 1496 | 8645 | $4.1+4$ |
| Deron | 24 | 31 | Il | 109 | 25 | 1983 | 70 |  | 393 |
| Dormet | 26 | 102 | 12 | 335 | 4 | 139 | 63 | 37 | 472 |
| Esati | 67 | 166 | 89 | 503 | 25 | $11+3$ | 409 | 1，s19 | 2，147 |
| Glencrastar | 9 | 306 | 10 | 209 | ＊ | JSS | 3 | 4 | dy\％ |
| kants | 9 | 43 | ${ }^{5}$ | 99 | 12 | ${ }^{96}$ | 26 | －37 | 265 |
| Herffotid | 350 | 118 | 154 | 137 | 180 | 167 | 40 | 429 | 923 |
| Kent |  | \％ |  | 13 980 | 1809 | \％60 | 2，${ }^{3}$ | 73 5789 | 80 8.357 |
| latursstey Midslesex | 324 3 | 47 | 840 | 9670 82 | 1809 | 20．45 | 2，478 | － $\begin{array}{r}789 \\ 10\end{array}$ | ${ }^{8,3787}$ |
| Mrdslesex Novfate | 3 | 7 | 8 | 82 | 77 150 | 114\％ | 118 | 16 | 1294 |
| Nottioghana | 94 | 150 | 66 | 219 | 56 | ${ }^{4} 4$ | 216 | 613 | 8.40 |
| Oxftra | 7 | 5 |  | 40 | ${ }^{4}$ | 19 | 9 | 35 | 44 |
| Bommeret | 119 | 238 | 61 | 506 | 74 | 63t | 256 | 130 | 2，63s |
| Sceifird | 73 | 299 | 137 | 744 | 35 | 559 | 598 | 1 ＊6010 | 3.859 |
| 息uftolk | ${ }_{5} 5$ | 107 | 14 | 206 | 11 | 165 | 108 |  | 606 |
| Warmiak | 33 | 5） | 118 | 449 | 310 | 889 | $4{ }_{0}$ | 845 | 1，801 |
| Wils | 46 | 117 | 29 |  |  |  |  | 515 |  |
| Warte tex | 74 80 | 117 | ${ }_{163}$ | 128 | 4 4 | 163 354 | 878 | 415 | ， 500 |
| York | 50 | 107 | 163 | 493 | 497 |  | 709 | 737 | 1458 |
| Torait x fogtand | 9351 | 477 | 3603 | 9310 | 7218 | 15，831 | 18，732 | 9923： | 42,000 |

Tatals in all Factornes men England

| OOUNTIES | Dader ThIrteen Yean of Age |  | Between Thitrens and $\mathrm{E}_{4}$ hieen Yesrs of Ago |  | Abswe Eighteon Yeara of Age |  | Toram |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Maies | Pemaler | Malen． | Femalea |  | Females | Malen | Pancaleat | 14ifles and Fersalien |
| Breton | aumber | namber | nomber | aumber 10 | atrinear 37 | naraber | bumber as | paspbet 19 | cumber ${ }^{*} 1$ |
| Buckn | ＊ | 39 | 29 | 8 | 4 | $s$ | 79 | 139 | 204 |
| Cardigan | 5 | 1 | 13 | $\stackrel{4}{4}$ | 7 | 8 | 25 | 15 | 11 |
| Carmarthen | 5 |  | 3 | 25 | a1 | 14 | 74 | 37 | 111 |
| Chenter | 2385 | 2，894 | 8，9065 | 7，887 | 14989 | 19，352 | 23.630 | 28859 | 59， $5 \times 3$ |
| Coratall |  |  | 3 | 43 | 4 | 35 |  | 会 | 108 |
| Cumberinud | ${ }^{63}$ | Es | 198 | 014 | 984 | 1308 | \％ 905 | 1 wil | 3，\％00 |
| Dentigh | 18 | 1 | 3 | 20 | 360 | 44 | 231 | 76 | 385 |
| Mesty | 780 | 2136 | 1，995 | 2， 300 | 3120 | 6，18 | 0283 | 10， 010 | 16．487 |
| Deras | $4{ }^{4}$ | 1 | 128 | W3\％ |  | Pry | 453 | 120 | 2648 |
| Dorset． | 25 | t02 | y0 | 249 | 5 s | 514 | $24+$ | ${ }^{6} 515$ | 1120 |
| Ditben | 55 | 3 | 69 | 190 | 122 | 402 | 2ts | 617 | 863 |
| Kasex | 6 | led | 4 | 304 | 2304 | 1150 | 412 | 1 480 | 2，242 |
| Fhat | 3 | 11 | 24 | 35 | 38 | ＊8 | $\stackrel{3}{10}$ | 137 | 231 |
| Clambreab | 6 | 8 | 30 | 64 | 71 | $3{ }^{31}$ | 107 | 112 | 219 |
| Glicmoreter | $3)$ | 118 | 1104 | 1359 | 1809 | 2， 073 | \＄ 980 | 4.130 | $t$ 43） |
| Mants | 9 | 42 | 10 | 147 | 21 | 155 | 40 | $4{ }^{3} 7$ | ${ }^{368}$ |
| Herciuta |  |  | 2 | 7 | 4 |  | 6 |  | 16 |
| Fiertard | 156 | tis | 154 | 137 | 184 | 157 |  | 428 | 413 |
| Kent |  | $0{ }^{9}$ | ¢fit | － 43 | \％ 31 | －793 |  | 184 | 820 880 |
| Lavemter | 8.45 | 6，085 | 2S， 310 | 380 | $6{ }^{6} 518$ | 77933 | 97838 | 192 ${ }^{1.628}$ | 580 $\times 971$ |
| Leateentiot |  | 5 | ${ }^{10}$ | 409 | 720 | ${ }^{1 / 40]}$ | 111 | 1，62 | 13 |
| berimath | 7 | 4 | 30 | 17 | 13 | 23 | 75 | 5 | 125 |
| At duftuver | 6 | 4 | 233 | 13.4 | 465 | 306 | 706 | 532 | 12 tan |
| Monmouth | 3 | 1 | 15 | 34 | 47 | 19 | 63 | 48 | 111 |
| M ntgamery | 87 | 13 | 285 | 323 | $\pm 39$ | 15 | 392 | 41 | 143 |
| Worfoll | 30 | 02 | 219 | 700 | 397 | 2，035 | 485 | 2 cost | 3503 |
| Nortbatptos | 4 | 10 | 71 | 156 | 34 | 10 | 4 | 245 | 418 |
| Northamberland | 2 |  | 8 | ${ }_{\text {L }}^{156}$ | 381 |  | 446 | 12003 | 2．5130 |
| Nott gheter | 101 | 154 |  | 674 | 328 100 | 1079 | 697 <br> 93 | 174 | 374 |
| Phuns |  |  | 1 |  | 2 | 1 | 3 | 1 | 4 |
| calop | 61 | 5 | 135 | 117 | 337 | 2009 | 359 | 171 | 1020 |
| Somernet | 146 | xGi | $0 \times 3$ | 903 | 168 | $4{ }^{4} 43$ | 146 | $2 \mathrm{k24}$ |  |
| 8taft ${ }^{\text {d }}$ | 119 | 303 | 324 | \＄39 | 78 | 13.5 | $1{ }^{1}$ 告 | 2467 |  |
| Suffole | 4 | 107 | 14 | gea | 14 | 185 | ${ }^{1 / 8}$ | $4{ }_{4}$ | ${ }^{606}$ |
| Burreg | ＊ | 8 | 180 | 8 | 174 | 50 | \＄36 | 5 | － 408 |
| Y atwick | 3 | 58 | 131 | sor | 314y | 0.57 | 4 | 509 | ？ 409 |
| WYedururelaza． | 7 | 77 | 88 | 205 | ${ }^{216}$ | ${ }^{309}$ | 20418 |  |  |
| Wily ${ }_{\text {W }}$ Wrester | 78 | 118 117 | 76 47 |  | $1{ }^{1}$ | 3090 | 2048 +18 |  | \＃800 |
| Y Fcestar | 74 8967 | 117 7645 | 1＋795 | 21878 | \％ $\begin{gathered}281 \\ 28.370\end{gathered}$ | 38， 312 | $5 \begin{array}{r}172 \\ 5152\end{array}$ |  | 11733 117085 |
| Tors | 92163 | $12 \times 15$ | 41978 | 80,794 | 120401 | $45+508$ | 127848 | 257794 | 455094 |

## SCOTCHFACTORIES

| COUNTIBS | COTTON |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ueder TMirtecn Yeart of Ago |  | Retwean Thitreen and knbleca lante of Age |  | Above Eugheen Yeare of 18\% |  | TOTAL |  |  |
|  | Mules | Females | Hales | Pemalar | Males | Pemales | Malea | Femalus | Malas and Pemals: |
| Aberdeen | cumber ${ }^{\text {at }}$ | nacaluer | namber | $\underset{5 \times 1}{\text { numb }}$ | $\begin{gathered} \text { notidever } \\ 2 \boldsymbol{z e l} \end{gathered}$ | momber 1093 | $\begin{gathered} \text { numbir } \\ 409 \end{gathered}$ | numbinar $1703$ | $\begin{gathered} \text { number } \\ 2,113 \end{gathered}$ |
| Arr | \$5 | 49 | 01 | 316 | 92 | 311 | 843 | [904 | 1045 |
| Fute |  |  | 105 | 14.5 | 115 | 2 HO | 920 | 435 | 405 |
| Crackmaxam |  |  |  |  |  |  |  |  |  |
| Dambertan | 11 | 7 | 113 | 157 | 156 | 344 80 | 270 | 508 | 778 |
| Kızkcudbragh | 2 | a | 34 | 41 | 35 | 80 | 61 | 124 | 185 |
| Labart | 77 | 06 | 1363 | 4994 | 3701 | 10,500 | 8183 | 15 Sob | 20, 29 |
| Leahtrow | 10 | 6 | 14. | 29 | 98 | 84 | 50 | 45 | 114 |
| Pertb | 5 | C2 | 15 | $\underline{593}$ | 185 | 575 | 937 | 330 | 1307 |
| Refrew | 114 | 89 | 695 | 1996 | 115: | 3971 | 1168 | 5.440 | 7604 |
| $s_{\text {strlin }}^{6}$ | 4 | 18 | 42 | 114 | 80 | 278 | 126 | 4.7 | 348 |
| Toral | 379 | 346 | 3046 | 8681 | 4.96 | 16 BCB | 9291 | 2 Sman | 35 110 |

Scotch Factories-(continued)


Scotor Factoniss-(contonued)

| COUNTIES | W00 L L $\mathbf{O}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 der Thartect heard of fige |  | Hetweon Thirteow and 1 ghteen rears 01 Ase |  | Abeve Eightrea 1 ears of Age |  | Total |  |  |
|  | Males. | Femalse | Malea | Pembles | Male: | Fomated | Males | Femaler | Malge apd Fewalen |
| Aberdect | number 10 | number 16 | math bur 146 | nu nbect 3.16 | $\underset{404}{\text { neml } \mathrm{er}}$ | number | $\underset{466}{ }$ | $\begin{gathered} \text { number } \\ \text { on } 3 \end{gathered}$ | pumber 1319 |
| A) ${ }^{\text {a }}$ | 12 | 6 | 86 | 189 | 124 | 1414 | 191 | 312 | 5 |
| Eerw $k$ |  |  | 7 | 13 | 12 | 14 | 20 | 97 | 47 |
| Cl Sk a dam |  |  | 247 | $2{ }^{2}$ | 484 | 52\% | 1233 | 765 | 201\% |
| It: tri** |  | 2 | -3 | * | 33 | 44 | d | s7 | 148 |
| [511 $1 \mathrm{rb}_{6}$ | 7 | 4 |  | 23 | 37 | 9 | 44 | 趏 | 78 |
| $\mathrm{EP}_{5}$ |  |  | 4 | 10 | 30 | 4 | 34 | 15 | 60 |
| $\mathrm{F}^{\mathbf{Y} 1}$ |  |  | 5 | 3 | 3 | \% | 13 | 18 | 46 |
| 1 ज10 * |  |  | $1)$ | 6 | 24 | 14 | 39 | 40 | 5 |
| K) thac |  |  | 3 |  | 1 |  | 4 |  | 4 |
| k $\boldsymbol{r}$ |  |  | 0 | 5 | 6 | 1 | 11 | 9 | 28 |
|  | 1 | 3 | 7 | 8 | 11 | 8 | 19 | 19 | 36 |
| L $\quad \mathrm{k}$ | 19 | 16 | 130 | 23 | 061 | 365 | 905 | 591 | 1490 |
|  |  |  | 4 |  | 1 |  | $\checkmark$ |  | 5 |
| ${ }^{5}$ ) | 2 |  | 13 | 16 | 31 | 3 | 37 | 19 | 56 |
| \% |  |  | 30 | 34 | 94 | 21 | 192 | 0 | 181 |
| 31 \% |  |  | $\stackrel{F}{*}$ | 17 | 17 | 14 | 2 d | 1 | 45 |
|  | ${ }^{4}$ | 1 | 131 | $2{ }^{2}$ | 438 | $2{ }^{2} 4$ | 593 | 433 | 1035 |
| y lacrk | 22 | 11 | 143 | 193 | ${ }^{575}$ | 249 | 740 | 383 | 111 |
| $8{ }^{81}$ | 1 |  | 16 | 23\% | 014 | 283 | 7 tm | 195 | 1276 |
| ${ }^{4} \mathrm{~F}$ |  |  | 7 | 3 | 20 | 3 | 27 | 6 | 33 |
| Tcial foes otiond | 60 | 88 | 17: | 1748 | 4023 | 2410 | 845 | +122 | 1631 |

Sconce Factorres－（contenued）

| COUNTIES | \％ $4 \times$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under Thirteren <br> Yeary of Agn |  | Hetwent Thite的 und Bightecn Yeand of Age |  | Abowe Eurblead Itara of Age |  | Tatal |  |  |
|  | Malen | Fernales | MnIe： | Female | Mates | Fenolles | Malea | Pemalea | Wales and Famalea |
| Ahprilept | manicer 11 | namieer 47 | gumber | numbiour 832 | number 67a | nunsher | number 2081 | 3ungber | $\begin{gathered} \text { number } \\ \$ 759 \end{gathered}$ |
| AYr | 4 | 14 | 414 | 85 | 138 | ${ }_{278}$ | 188 | 375 | 36 |
| Rdintmargh | 18 | 15 | 37 | 77 | \％ | 319 | 193 | 211 | 38.4 |
| Pire． | 1 | 18 | 193 | $68:$ | 53 | 1754 | 711 | 8，453 |  |
| Forfar | 78 | 196 | 1069 | 19.59 | 1648 | 8008 | 27013 | clos | 10935 |
| Eincardine |  |  | ${ }^{8}$ | 11 | 10 | 8t | 13 | 63 | ${ }_{6}$ |
| Lizark |  |  | 120 | 914 | 147 | 38.4 | 307 | 036 | 943 |
| Parth | 1 | 7 | 98 | 180 | 167 73 |  | 260 | 781 484 | 1067 |
| Rapfrem | 8 | 4 | \＄0 | 141 | 73 | 279 | 101 | 424 | 385 |
| Tornch tor Sieotland | 109 | 296 | 1973 | 4253 | 3465 | 11834 | 5647 | 13893 | 81，330 |

Scotce Factories $\rightarrow$（contenued）

| G00NTISE | 6120 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Frader Thisteen Yeare of Age |  | Betwpan Thitteen and Bighteen Years of Age |  | ABure Ehatroen Yeurs of Age． |  | TotaL |  |  |
|  | Malet． | Peminiea |  | Pernalen． | Males | Fenale： | Malea | Ferames | Hates and Femiles． |
| Latuark Ronfrer | manber $1 \pi$ 2 | $\begin{gathered} \text { number } \\ 93 \\ 20 \end{gathered}$ | gumber <br> 7 <br> 10 | $\begin{gathered} \text { namber } \\ 965 \\ 65 \\ \hline \end{gathered}$ | Mrublec | numbets $\substack{37 \\ 186}$ | aumbar $\substack{104 \\ 67}$ | number <br> 360 <br> 387 | $\begin{gathered} \text { number } \\ 783 \\ 904 \\ \hline \end{gathered}$ |
| Tor4t for Spolland | 17 | 69 | G3 | 330 | 141 | 407 | 991 | 796 | 1017 |

Scothand－All four Factories

| COUNTIS | TOTAL OFALL PACTORIBS |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dader Thirteon I eart of Age |  | Batween Thirtpen and Elightern I eaves of the |  | Above Bightem Yeara of age |  | Toram |  |  |
|  | Maics | Fomaly | Malem． | Pumales | Mates | Femajers， | Males | Fomelea | In intur and r analen． |
| Alersemo | $\begin{aligned} & \text { number } \\ & \$ 5 \end{aligned}$ |  | ${ }_{\text {nuabl }}^{600}$ | natober 1 948 | number 1297 | number 3 3 | ${ }_{\substack{\text { number } \\ \\ j \\ j \text { pus }}}$ | number B，279 | cumber <br> 7194 |
| Ay＇r | － | 78 | 301 | 325 | 354 | \＄11 | ＋47 | ＋100 | 2.137 |
| Ifurwiek |  |  | 7 | 13 | 13 | 14 | 20 | ${ }^{47}$ | 47 |
| Suta |  |  | 105 | 145 | 155 |  | 290 | 435 | r3s |
| Ofackmabata |  |  | 2.47 | 284 | \％ 4 | $3 \times 4$ | 1433 | 786 | \％ 019 |
| Dumberton | 11 | 7 | 113 | 6SI | 120 | 334 | \＄70 | 503 | 774 |
| Denaifles |  | ＊ | 43 | 43 | 积 | 43 | 61 | Q |  |
| Edinburgh | 19 | 19 | 45 | 200 | 101 | 12\％ | 165 | 247 | 414 |
| Flyin |  |  | 4 | 10 | 3.0 | 17 | 31 | 10 | ${ }^{50}$ |
| Fife | d | 13 | 193 | 80. | 539 | $17 \% 9$ | 745 | 2406 | 2170 |
| Forfar | 72 | 106 | 1070 | 1，160 | 1637 | 6，060 | \％ 769 | N， 208 | 10935 |
| Inverness |  |  | 15 | 6 | 24 | 14 | 35 | 20 | 51 |
| Kle esidine |  |  | ${ }^{6}$ | 11 | 15 | 52 | 4 | ${ }^{83}$ | 40 |
| Kicrata |  |  | 3 | 5 | ${ }^{6}$ | 4 | 11 | 9 | 20 |
| Kirkcaulsright | 3 | 6 | $\pm 1$ | 41 | 6 | 的 | 80 | 14.4 | 223 |
| Labart | 104 | 144 | 17 OH | 5781 | 464 | 1148 | 6，513 | 17378 | 2＊）${ }^{\text {a }}$ |
| Linliftigen | 10 | 6 | ＊2 | 新 | 93 | 24 | 61 | 3k | 119 |
| Peeblea | 2 |  | 13 | 110 | 82 | 5 | $3{ }^{31}$ | 19 | 56 |
| Perth | \％${ }_{0}$ | 69 | 289 | 483 | 445 | 1237 | 814 | 1 rato | 2390 |
| Reptrat | 124 | 119 | 94 | 2.203 | 139 | 3 24 | 2，414 | － 106 | 9，870 |
| Rowb trgb | 8 | 1 | 130 | 204 | 438 | 434 | 0682 | 453 | 1035 |
| Sid Mat | 2 | 11 | 103 | 123 346 | 535 | ＋198 | 70\％ | $3 \mathrm{k}{ }^{3}$ | $\underline{1173}$ |
| Sid 4 ctg | b | 18 | 3 | 34 | 69 | \＄38 | 907 | 992 | 2，N（0） |
| Torat | 885 | 710 | $00^{\square 8}$ | 1300 | 23，493 | 30748 | 20．409 | 46，777 | 6743 |

IHISH FACTORIES


Irish Factories-(continued)

| COUNTIL | W O O L L L E N |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | I nder Thireen l und of $A E$ |  | Between Thirtang and Eigitera Yeam of Age |  | Above Eighteen leate of Age |  | +50\%A2 |  |  |
|  | Halen | Prmeles | Majem | Fromalu: | Alther | Pematea | Males | Pamales | Molce and Fexatiks |
| Cork | bumber | cutbuler | mamb ${ }^{2}$ | number 4 | Bumber | numbir | number | number 113 | numbier 151 |
| ${ }^{0}$ himn | 2 | 1 | 41 | $39$ | 191 | 123 | 234 | 168 | 402 |
| K larate |  |  |  | $11$ | 13 | ${ }^{*}$ | 13 | 19 | 91 |
| Kitk my |  |  |  | $2$ | 95 | 114 | 05 | 116 | 211 |
|  |  |  | 3 | 3 3 | 31 | 11 | 84 | 71 | 105 |
| Tit 1 rat nuterford |  |  | 6 | 15 | 7 | 1 | 13 | 3 | 10 |
|  |  |  | \$ | 15 | 70 | 43 | 73 | 60 | $1 i^{3}$ |
| TnEA Wootlon for 1 Inad | 2 | 1 | 79 | 14.4 | 452 | 404 | 513 | 519 | 1,088 |
| Fothy Woullen fry | 80 | $5{ }_{5}$ | 1318 |  | 4023 | 2110 | 5 *** | $0, \mathrm{yz}$ | 9,63y |
| Tor th wall of T Einglaud | 4.108 | 306s | 10 nts | 8,233 | 23135 | 13, 101 | 3798 | 24789 | 68087 |
| Ctand Total | 4243 | 314 | 12013 | 10151 | 91810 | 16215 | 12, 13 | 29493 | 13,406 |

Intisi Paotornse－（oortmithed）

| COUNTIES | P A X |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under Thirtera Yearn of Age |  | Betwenn THirteen and \＄ighteen Yenrs of Lg g － |  | Above Buthtecn Yeare of Ago |  | Totas |  |  |
|  | Nales | Fenulay |  | Ferimien | Muies | Feranite | tales | Famalea | falaley and Feronics． |
| Antrion | camber | numbar 37 | number | $\begin{aligned} & \text { number } \\ & 2,101 \end{aligned}$ | $\begin{gathered} \text { mambey } \\ 1, \$ 76 \end{gathered}$ | noruber | $\begin{gathered} \text { numbeax } \\ \mathbf{4 y s} \end{gathered}$ | Mumber | number <br> 9246 |
| Aranate |  |  | A9 | 2135 | 165 | 228 | 104 | 413 | 677 |
| Donugal |  |  | 29 | 88 | 4 | 52 | 6 | 120 | 174 |
| Bown |  |  | 56 | ＊ 82 | 部 | 1234 | 136 | －084 | 3443 |
| Dublon |  |  | 48 | 89 | 51 | 1180 | 100 | 197 | 297 |
| Eilunte | $\cdots$ |  | 7 | 118 | \％ | 180 | 143 | 407 | 105 |
| Lodiunderiy | $\cdots$ |  | 42 | 108 | 69 | 170 | 105 | 2 F 3 | 384 |
| South |  |  | 141 | 2 za | 187 | 400 | 764 | 681 | 970 |
| \＃epth |  |  | 14 | 54 | ${ }_{51} 1$ | 173 | ${ }^{48}$ | 1985 | 175 |
| Tymne |  |  | 95 | 385 | 174 | 466 | 280 | 865 | 1184 |
| Toral for Ireland Torki for tie tind |  | 27 | 2458 1973 | 4735 4835 | 3128 34625 |  | 54906 | 15 1598 | 17089 $\$ 1730$ |
| Sorric for he riond | 800 | 78 | 1983 | 4833 4.517 | 3460 3,677 | 11234 7513 | 5047 7059 | 15189 18,789 | 19.730 19,640 |
| Geand Togas． | 04 | 1075 | 6915 | 130005 | 10，430 | 25，978 | 18，200 | 40 0．58 | C8， 15 \％ |

Impland－All four Factonee．

| COUNTISE |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under Thirteen Ycars of AEM |  | Batween Thutenn what Eighteta Yost os Age |  | Above Sightecr Yorra．ol Age |  | TOTAL． |  |  |
|  | Mulen | Femala | Malcb． | Females | Halss． | Feranam | Malet． | Pemaled | Mrien ana Pcmairy |
| Antrim | mamber | pumber 47 | aumber <br> 152 b | number <br> 2，320 | $\begin{gathered} \text { anmber } \\ 1752 \end{gathered}$ | natmiter <br> 4，629 | $\begin{gathered} \text { anmber } \\ 3886 \\ 8.18 \end{gathered}$ | $\underset{\substack{\text { materger } \\ 6978 \\ 0.04}}{ }$ | $\begin{aligned} & \text { mamber } \\ & 109464 \end{aligned}$ |
| Armath | 2 | 3 | 69 | 180 | 157 | 335 | 8.48 | 344 | 72 |
| Cark |  |  | 34 | 18 | 45 | 63 | 69 | 118 | 181 |
| Donegral |  |  | 264 | ${ }_{1}^{\text {as }}$ | 28 | ${ }_{6}^{68}$ | \％ 54 | 10 | 174 |
| Depar |  |  | ${ }_{138}^{686}$ | 18003 | 965 | 1583 | 1089 | 2.580 | 4248 |
| Dublia | $\boldsymbol{z}$ | 2 | 135 | 220 | 814 | 447 | 474 | 783 | 1247 |
| Kitatare |  |  | 98 | 161 | 108 | 140 | 200 | 3 | 341 |
| Kilmendy |  |  |  | 2 | 95 | 114 | 95 | 110 | 211 |
| tanutarderry |  |  | 40 | 3 HS | ${ }_{6}^{6}$ | 1,6 | 105 | 479 | 2044 |
| Louth <br> Aesib |  |  | 174 14 | 54） | 191 | 411 | 364 | 720 128 | 1089 178 |
| Acsib <br> Nonagh a |  |  | \＄88 | ${ }_{107}^{64}$ | 80 | 135 | 48 | 1288 960 | 178 $\mathbf{5 0 \%}$ |
| Gueeas a Cuunty |  |  | 4 | 40 | 80 | 90 | 84 | 132 | 225 |
| Tipperaty |  |  | 6 | 2 | 7 | 1 | 13 | 3 | 16 |
| Ty vi |  |  | 赭 | $3 * 9$ | 174 | 465 | 969 | 85.5 | 1124 |
| Watertordi |  |  | 208 | 814 | $4{ }^{4}$ | Sbin | 348 | 769 | 1358 |
| 3 ext rd | 9 | 6 | 18 | 14 | 881 | 36 68 | 4 | 64 | 137 |
| Wiekiow |  |  | ${ }^{51}$ | 12 | 81 | 69 | 77 | 80 | 137 |
| Toral for lire land | 15 | 39 | 5180 | 5198 | 4614 | 9，574 | 7779 | 14，818 | 92， 501 |
| 1\＃nd | 526 | 779 | $\mathrm{G}_{2} \mathbf{3} \mathbf{9 8}$ | 35，690 | 13，483 | 30，948 | 20，406 | 46，7\％ |  |
| Thrat land | 20109 | 10925 | \＄1876 | 明392 | 120，201 | 187，868 | 197243 | 1557 794 | 4 14.468 |
| Gramp Tothe | 29，769 | 90， 213 | G1，426 | 101039 | 138.298 | 108 251 | 22543 | 369383 | 5146 |



 is not cooudiderable．

Factory Ofite 4 ywil $16,18+7$

Totals of all Factores en Eughad, Scotland, and Ireland

| TOTALS | 815 K |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under Thitleen Yeten ef Ago |  | Retwett Thirteen nad fightera Yeara of Age |  | Above Eighteen Yeurn of Age |  | Totat. |  |  |
|  | Meles | Femalea | Mandos | Eamolta | Msher | Fetmales | alaite | Perrale | Vales antd Pemales |
| Tovat for Ireland Totat for Srotlead Toydl far Englatul |  | anabober mone 59 $47 \% 7$ | n moter Done 63 3043 | tumber none as0 9310 | bacenter undaf 141 7918 | number tuObe A0Y 15431 | anmbery Hon 311 1377 | putaber Hotue 796 <br> 2018 | pfrtolect none 1017 43890 |
| Grano TotaL | 29148 | 4*36 | 3066 | 9640 | 7399 | 36234 | 18,203 | 30,754 | 11707 |

Offictan Valuce of all Brisish and Irish Woven Manufactures Exported from the United Kungdom to all Countries during the followng Years -

| YRARS | Cotson sanufactares | Cotton Yazo | MANUFADTUEES |  |  | Total of Wore Fabrica | Tomac of ell othor Articlts | Torace el all $\mathrm{A}_{\mathrm{an} 4}$ coture: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | thnfin | stis |  |  |  |
| 1816 | $1635124$ | $188 x^{2} 485$ | $\stackrel{t}{5856,3(4)}$ |  | 101574 | $\stackrel{\text { 2) }}{\text { 2923 }}$ | 9754305 |  |
| 3817 | 20 3551107 | $11.3+57$ | 5,4 4.420 | 1093104 | 154534 | 20.8185453 | 959014 | 3) $2173+67$ |
| 1818 | 21687936 | 1295 | C, 341100 | 2154309 | 10750 | 31584648 | 10.3544 | 41500455 |
| 1819 | 16876350 | 1 2xs 53 | 4 COP 270 | 1547353 | 116800 | 8, 734 390 | -185 the | 320530089 |
| 1820 | 20704600 | 2, $122+158$ | 1363979 | 1033,104 | 118370 | 29144283 | 8,07373 | 37.424102031 |
| 15: ${ }^{\text {l }}$ | 21630,403 | 18.95935 | 5 SnCl | 2303443 | 1312, 102 | \$1 474 135 | 3,715 38 | 40194631 |
| 1823 | 146505920 | 2,34. 417 | 5043612 |  | 21.1007 | 35,599, 599 | 7159500 | 43848.149 |
| 1813 | 24117319 | 2424.419 | 83889 | 8634094 | 141320 | 34,878175 |  | 44, 64,039 |
| J84 | 1710107 | 2,344 322 | 91360.8 | 3883403 | 150 49 | 399833 379 | H293 457 | 48,784 , $555^{\circ}$ |
| 1825 | 20,497 574 | 2897706 | 5920 312 | 870978 | 150 L 15 | 3 BESA 409 | 1,16 $81 / 2$ | 46, $4,300 \mathrm{yy}$ |
| 1536 | 2t 405 06s | 318380 | \$ 441535 | 20856.700 | t06738 | 3) 39\%174 | 7933.880 | 40 undati |
| $1 \times 7$ | 23 204 12x | 3 3ts rbs | 3879681 | 2809061 | 1,3334 | 42 Ifrois | 913 T 483 | 71819102 |
| 1985 | gas mag pra | 4 485,441 | $5,780.079$ | 9,112270 | 17* 671 | 24.483037 | 9 5935,113 | 52, 015 73 |
| 1897 | 31310430 | 3159 D135 | 3.401997 | 3003 3934 | 220 736 | 45675248 | 981045 |  |
| 1 lmO | 358535400 | 0,659 69 | 5 SKP 664 | 3101,031 | A75 u43 |  | 10343948 | $60-4976$ |
| 1835 | 33 C42 475 | 5 674 | 6167548 | 3,868985 | $4 \times 0$ ¢ 78 | 19 ofits | 97486 48 | 00600123 |
| 1888 | 370401.750 | 6,725 50.5 |  | 2,649 34年 | 47i sus | 43686807 | 15063250 | 944 485.837 |
| $1 \times 3.4$ |  |  |  |  |  |  |  | 699081359 |
| 1384 |  |  |  |  |  |  |  | 73831850 |
| 1835 |  |  |  |  |  |  |  | 79.370 381 |
| 1834 1837 |  |  |  |  |  |  |  |  |
| 1837 |  |  |  |  |  |  |  | 72 464232 |
| 1838 1889 |  |  |  |  |  |  |  | 桀14-32 |
| 1889 |  |  |  |  |  |  |  | $967_{492} 76$ |
| 1890 |  |  |  |  |  |  |  | 102 \%0s 37\% |
| 1441 |  |  |  |  |  |  |  | 106100517 |
|  |  |  |  |  |  |  |  | 160760101 |
| 14.43 |  |  |  |  |  |  |  | 11.617278 |
| 1648 2045 |  |  |  |  |  |  |  | 1abain sios |
| $\begin{aligned} & 2843 \\ & 1848 \end{aligned}$ |  |  |  |  |  |  |  | 134, 8 19 116 |
| 1417 |  |  |  |  |  |  |  |  |
| [1548 |  |  |  |  |  |  |  |  |
| 1349 |  |  |  |  |  |  |  |  |
| 1850 | 1 |  |  |  |  |  |  |  |

Total deciared Value of all Britsh and Insh Wioven Manufactures Sxported from the Unted Kingdom during the following Years

| YBATS | Coltan | Cuctort Yara | Wonlletas and Yatio | Imen | $\begin{aligned} & \text { Sanen } \\ & \text { Yures } \end{aligned}$ | Sita | 10FAL of Pour Pabnes | Ter y of olletr Arttcien | Tor 2 all N mulace tatery |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 13071797 |  | cil ${ }^{\frac{1}{8}}$ | 4 | 年 | 5 | 4 | 4 | 5 |
| 1810 | 13074757 | 2688418 | 781435 | $1.45 \times 87$ |  | 480522 | 2 471249 | 16178606 | 410 83 |
| 1213 | \％1774，0\％3 | 2，014 188 | 7569472 | 1 10.1032 |  | 409，5cat |  | 15969374 | 414 ¢ 212 |
| 1818 | 1f 64a 579 | 2，385305 | Et13．93 | 1949， |  | 400，176 | 40 f21 067 | 136018 | 14132 19 |
| 1819 | 12，989 1233 | 2.516153 | 5 984 407 | 1.051265 |  |  | $2 \mathrm{c}+046{ }^{\text {c }}$ |  | 3 HBL 727 |
| 1820 | 13813 wha | $2,726.193$ | 3 2063 430 | $1035 \times 38$ |  | 374114 | 2125190 | 11854600 | 36116．627 |
| 1821 | 13746 | 4307832 | 6461567 | 1，981465 |  | \＄7\％，936 |  | 11421303 | 24， 293192 |
| 1824 | 14594243 | 2，700437 |  | 9192772 | 3 | 381435 | 20 297460 | 1032,99 | 56,050 0， 6 |
| 1827 | 25.75141 .5 | 2085．37 | 5 nst 137 | 4648,15 | 한핸 | 35080 | 114579．53 | 11817387 | 36776,342 |
| 1824 | 15840006 | \％ $13 \$ 406$ | 6， 911,534 | $2+140$ | \} ${ }^{\text {¢ }}$ | $44^{4} 383$ | 97874058 | 103048 | $30.47-101$ |
| 1645 | $15034 \mathrm{l3s}$ | 3260789 | 4 19＊7 7 | 2130705 | 事品 | 293677 | 2686264 | 11908.49 | 46,474 |
| f6 ${ }^{\circ} \mathrm{d}$ | 10 52x，${ }^{\text {ata }}$ | 3 493 3R4 | 4952 ，A98 | 3489 alim | $\pm$ | 104，453 | 20） 6 44 523 | 10 EN 2101 | 31，306 24 |
| 1577 | 19957825 | 3,43458 | A 217861 | 1805,186 |  | 236，092 | 24， 914.538 |  |  |
| 1828 | 10，54 638 | 3,10449 | 5110226 | 2，0400035 |  | 25sy 753 | 2410,697 | 11957 | 305483 k 28 |
| 1829 | $13520 \times 44$ | $39 \leqslant 1499$ |  | 1885 831 |  | 207182 | 4204415 | 1！，318212 | 38592847 |
| 1896 | 1403713 | 4132.253 | $4,347,398$ | $19 \times 6254$ |  | 519812 | 2P 629） 544 | 11297957 | $37.32^{-3} 91$ |
| 1831 | 13254947 | 394309 |  | 2.461704 |  | 58884 | 25 ck ，325 | 11 15adi3 | 5F839 38 |
| 1832 | 12，674 8180 | ＋11799 | \＄474786 | 1783438 |  | 599995 | 25108809 | 10971208 | 36，133 60 |
| 1838 | 13782337 | 4704084 | 0.549796 | 2，167024 | 72096 | 787404 | 28003.561 |  | 39331413 |
| 1024 | IS 302，${ }^{\text {a }}$ | 3,711015 | $5374+13$ | 2.43346 | 130， 3 何 | 659413 | 2905826 | I 3 320 400 | 11 $2 \mathrm{M}, 526$ |
| 16 | 16 dyl 785 | 6 7atis 99 | 7149.009 | 2802143 | 416.535 | 072031 | 32,354713 | 136 fl 943 | IT 02a 658 |
| 3836 | 18，511 089 | 6,484336 | 7998058 | 4．396， 315 | 31673 | $9178{ }^{10}$ | 36，192，000 | 16，676，978 | 57， 3685 |
| I637 | 18.310181 | 6， 155.492 | 4084075 | 2.12745 | 470307 | 508975 | 28695173 | 15 37\％ | 44070744 |
| 1808 | 1 $\$ 10715851^{4}$ | 7437860 |  | 2，8010，879 | 746，103 | 777286 | 34671645 | 15，389 9\％3 | 00860970 |
| 1870 | 17092，4162 | 0，858 193 | 6654965 | 344097 | 818，484 | 96a 118 | 36286910 | 16956 670 | 6583740 |
| 1840 | 17867310 | 710130\％ | 5780,810 | 3 306， 0158 | E22，876 | 798 baty | 35，37 ${ }^{\text {a }}$ O 0 | 16.145390 | $31004 \pi 0$ |
| $184!$ | 14 t／3，510 | $77^{7} 69$ 963 | 6，i01 098 | 3，941505 | 972 460 | 788894 | 32，801 421 | 15，740，202 | 81634823 |
| 184\％ | 13,907884 | 77148 | 5822,518 | 2846749 | 1005351 | 50918 Cb | 81464385 | 15916818 | 17 761 02d |
| 1843 | 16，234000 | 7198,971 | 7583311 | 2.803283 | 848，829 | f697957 | $35,4.56186$ | 16023143 | 37，479 709 |
| IR44 |  | G9as dyd | － 96.7053 | 3024,800 | 1，4150 675 | 716，453 | 39，760，332 | 12，803，960 | 68，584 298 |
| 1845 | 19150006 |  | 9750.42 | \＄ 036,370 | 10040,500 | 760145 |  |  |  |
| 1846 | 17720900 | 7892018 | 7242 Sid | 4，885，384 | 875.550 | 837， 577 |  |  |  |
| 1837 |  | 61987207 | －964 609 | 4，958，8097 | 650,307 | 87814 |  |  |  |
| 1848 |  |  |  |  |  |  |  |  |  |
| 1849 1850 |  |  |  |  |  |  |  |  |  |

Metals－－The ranerals of Inda have been scarcely explored Coal，no doubt， abounds in several parts，and what is culled the great coal field，on each side the nuver Damoda，for sixty to seventy mules，and probably much more in length， and of an ascertaned breadth of more than twelve miles，has been usefully worked，where three or four pits have been worked Coal and ron are found un conjunction in the Burdmar and Sylhet districts of Bengal，and very rich Nodular ore，pielding about twentv－five per cent pure metal，abounds in Bhaugulpore Formerly the mines in this district were extensively worked Coal has Deen found in Nerbudda Nire constitutes an importantarticle of export from Bengal Salt，which is a government monopoly，is produced at Cuttack and other places， chefly in the west of India Diamonds are found in Bundelcnnd，\＆c Lead mines are numerous Copper mines are worked But such is the wretched state of mining，that metals are scarcely worth alluding to among the usefully－porked products of India India，in fact，recelves the coal and ron used chiefly from Great Britain India，however，supphes the United Kingdom whth the greater part of the saltpetre or nitre used，Ohls and Peru supplyiag nearly all the re－ mander The quantty of saltpetre imported from Britush India＊in 1845
＊See preceding Tables of Fxports from the United Eingdom for the vanous arteles of metal， machunery，\＆e，exported to India．
amounted to 307,703 barrels, from Peru, 134,098 barrels, from Chil, 38,745 barrels, all other places, 6075 barrels, total, 486,621 barrels Iron and hardware are extensirely exported to Inda, and, considering the low pnces at which all articles of metal are now made an Great Britain, and the extraordmary merease in the quantity of aron produced in Great Britam, we cannot believe that industry can be profitably directed to manng or woikng the metals of British Inda, any more than to prosecute manufactures in India (See Commercal Tables, pages 148, et seq, and Tables of Iron and Metals hereafter)

Agricultural Products are eviently those for which India must be for a long period adapted, and we introduced the foregoing tables to allustrate how extensive a demand the raw materials of India may find in the four great noved falrics of the United Kingdom, vix , cotton wool, sheap's wool, silk, and flax, all which, with industry and careful preparation, may be profitably suppled from Indaa We now pass on to such in a statement from the other proncipal articles of export, viz, sugar, indigo, opium, \&e

1 Sugar (Arabic, suldht, Latin, saccharum, Sanserit, sakkara Spamısh, azucat, Itahan, zucehero, German, zuclier, French, sucre) is distingushed by the several qualties of brown, or muscavado, clayed, refined, and candy

The first account we have of sugar is about 320 years before Christ, when it is mentioned by Throphrastus as honey extracted from reeds Strabo says Nearchus found reeds in Indaa yielding honey without bees Pliny describes it as a medicmal honey collected from canes It was probably sugar candy obtaned from China Europe owes ats knovled ${ }^{2} e$ of sugar to the Moors, who cultivated the cane in Spain, as soon as they became established in that country It was rather extenswely cultivated in Spain, and in the fifteenth century the cane was carised to and cultivated in Maderra and the Canary Islands, from which it is sadd to have been early transplanted to America The cane, however, was indigenous to the tropical countries of America, the natives, however, did uot know its use The first Enghsh sugar plantation was in Barbadoes in 1627, from whence sugar was exported in 1646 , and thirty years afterwards 400 vessels, of about 150 tons, were employed in the Barbadoes trade, chefly in exporting sugai No less thon 65,000 tons annually were exported from St Domingo bffore 1790 The piogressire consumption of sugar in the United Kingdoin will be found in tabular forms hereafter In 1700, it did not exceed 10,000 tons, it was then consequeatly a rare artacle of luxury In 1754, it nereased to about 54,000 tons In 1790 , to about $80,0 n 0$ tons Untul 1820, the importation of sugar from India was trifling Since then the quantity (see Tables, pages 134, and hercuifter) has increaned rapidly It is evident that the soll and climate is eminentls idapted for the cultivation of the cane

We shall, howeser, defer further remaiks on the cultivation of sugar, untıl we cluss the whole undur the one generul head of the sugar producing countries of the world

Coffee－Hudostan，Ceylon，Jawa，and other eastern countries are emmently adapted for the prodaction of eoffee．For imports and exports，\＆e，see Gene－ ral Tables hereafter

Indigy－In the history of cultwation we are not aware that any thing is more remarkable than the rapad growth of indigo in British India（See Tabular Statements，page 138）

Pepper－See Tables of Exports，\＆cc，pages 138，et seq，and Tables hereafter
Rum．－See Tables，page 138，and hereafter
Opuan－This drog constitutes a government monopoly in kndia，

Statemert of the Opum Ceported from Caleatea to China，to the Ports in the Indaan Archapelago，andito Europa，from 1793 to 1834

|  | Chente to <br>  | $\begin{aligned} & \text { Chents to } \\ & \text { the Bustoray } \\ & \text { l Dits } \end{aligned}$ | $\begin{gathered} \text { Chexto ta } \\ \text { Tha Wabtern } \\ \text { Yorts } \end{gathered}$ | TOT 12 Clent | FSARG | Crestor to Chatio | Chenta to Ha Ensterta Parts | $\begin{aligned} & \text { Chests to } \\ & \text { bebberaterto } \\ & \text { Forts } \end{aligned}$ | Totax Chemets． |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5795－95 | number 15170 | 7 4nber | $\begin{gathered} \text { anmer } \\ 10 \end{gathered}$ | meinbery | 1813－16 | $\begin{gathered} \text { amaluer } \\ 2730 \end{gathered}$ | $\begin{gathered} \text { manber } \\ 1180 \end{gathered}$ | number | Mymber $3<26$ |
| 3790－97 | 空解 | \＄247 |  | 5044 |  | 3876 | 987 | 30 | 4い」 |
| 1797－98 | 185 | 1515 | 4 | 803 | 1817－18 | 2911 | 44 |  | 3709 |
| 1799－99 | 1719． | 1624 |  | 3842 | 1419－19 | 4575 | 72 | 8 | 4205 |
| 1796－1s00 | 1867 | 2050 |  | 3820 | 1819－20 | 1711 | 13.5 |  | 3091 |
| ［ 8 Cx］－1902 | 3427 | 1530 | 26 | 478 | 1490－21 | 3544 | 15345 |  | 5147 |
| 1801－3 | 174 | 1723 |  | 5487 | 1821－78 | 1930 | 0.55 |  | 25\％1 |
| $1 \mathrm{c}_{\text {che }}$ | 20as | 103\％ |  | 30.8 | $1824-23$ | 320 | B43 |  | 4109 |
| 1003－1 | 2116 | 935 |  | 50153 | 18984－新 | 39res | 1235） |  | 520\％ |
| 1864－ | 1379 | 1624 | 10 | \＄3548 | 1801－25 | 5355 | 1710 |  | 70，6 |
| 1805－9 | 218 | 1510 | 1 | \＄657 | 1854－30 | 4097 | \＄30 |  | 6145 |
| 1890） | 9607 | 17 T |  | 4344 | 18＊6－27 | 5 s 61 | 707 |  | 6569 |
| 1907－8 | 3089 | 1171 |  | 4253 | 1897－23 | T31 | 587 |  | 7405 |
| 18049 | 5237 | 1110 | 1 | 4059 | 1948－29 | 5903 | 34．51 |  | 6， $\mathrm{cac}_{4}$ |
| 1sum－10 | 3074 | 1178 |  | 4946 | 1829－30 | 7183 | 2985 |  | Brts |
| 1810－11 | 3592 | 1317 |  | 1009 | 1809－31 | 5079 |  |  | 7009 |
| 1815－18 | 8898 | 1897 | 38 | 113 | 1831－39 | 6318 |  |  | 2.47 |
| 181\％－13 | 3318 | 1801 |  | 4 CrO | 1872－43 | 7938 |  |  | 2H4\％ |
| 1会13－14 | EIts | 1039 |  | 4275 | $1835-34$ | 750 l |  |  | gale |
| 1814－48 | 2050 | 明枵 | 13 | 3272 |  |  |  |  |  |

The easteri ports melude all those east between the Cape of Good Hope and Cape Horn），and the westerm，those west of the former on the Atiantie

Quantity of Opum amually Exported from Inda to Chna for Eighteen Years

| $Y \mathrm{BABS}$ | Number of Chents Imperted |  | Avarapat Picer per Cliget in Spantals Liollary |  | Ginds alue of ench Kind in Spangul Doiterg． |  | Totac N mbert of Chenass Imported | Totat， Vale uf trapo tativin in Spant $^{2}$ Doilat |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | It Ina nisd by | Malma | Fatan and Bramy | Malvo | Perine and Beter軍变 | Malu＊ |  |  |
|  | aumber | number | coll 7 | diohars | dotlurs． | didiarm | cumbers | coliarmi |
| 1816 | \＃1 10 | 600 | 1 00 | \＄75 | 3.154500 | 39500 | 3210 | 3637000 |
| 1817 | 2430 | 110 | 1205 | fld | $9200+30$ | 7431400 | 3.680 | \＄201250 |
| 1618 | 7850 | 1530 | 1400 | 495 | 3030500 | 110935 | 4．510 | 4159230 |
| 1813 | 2750 | 1030 | 1235 | 11.3 | A rise 950 | 185855 | 4600 | 3 23， 2000 |
| 1094 | 3050 | 120 | 1000 | 115 | 5795000 | 2405000 | 4770 |  |
| j102l | 2110 | 1316 | 207， | 3325 | 5083150 | 217450 | 16 | \＄，314000 |
| 384 | 18 ${ }^{\text {a }}$ | \＄，000 | 134\％ | 1190 | 2824930 | 3100000 | d $5 \mathbf{7} \mathbf{7}$ | $7{ }^{7}$ |
| 1823 |  | 417 | 1600 | 925 | 45 d， 000 | $3 \times 54100$ | （1）2 | g 515100 |
| 1544 | 2485 | （600\％ | 11,5 | 750 | 31197635 | 400000 | 8514 | 7 701965 |
| 1825 | 3119 | 0179 | 13 | 73 | $314 h_{+1} 55$ | 4 ＋14 $4 \times 0$ | 980.1 | 7000.295 |
| 1826 | 56， | 6.308 | 10ya | 542 | 3，419＜3545 | 3，111 5id | （0n） | 96100 （185 |
| 1947 | 5137 | 4101 | 2193 | 1801 | 5，145 153 | 31200820 | p 35 | $10+250$ |
| 174 | 60035 | 759 | 919 | 08 | 5604835 | $6.28 \times 80$ | 1313 | 12．515．113 |
| 183\％ | 74．43 | 6， $8^{4} 7$ | 840 | 868 | 614537 | 3，40 480 | 1＋1000 | 12，0才715－ |
| 1830 | 401590 | 1． 100 | 470 | 588 |  | 711100 | 14 rat | 1290463 |
| 1831 | 3.30 | 9，265 |  |  | b csi 010 | 5 HET TI | ¢f 28 | $17 \% 401588$ |
| 1883 | B 157 | 13403 |  |  | \＆3J 0， 0 | 4781700 | 23176 | 15.382559 |
| 1835 | 3is34 | 15753 |  |  | 609534 | 7110.951 | 2110 | 14，000， 0 ，${ }^{\text {a }}$ |




 daltara 1

Quantitr of Malya Opum Exported from Bombay and Damaun to Chana, from 1821 to 1834

| YBARS | Cl ent from Entalias | Cberbs frots Drimaun | Total Amaunt of Cbeala | Avorago Bembay Ruperi | Ytars | Chente from Barnaty | Cheste from Dapanua | Totai Awosidt ut Chest | Average Brabey Ruprea |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1811 | anmber coeb | number | $\begin{aligned} & \text { Dumber } \\ & 2273 \end{aligned}$ | $\begin{aligned} & \text { Dumber } \\ & \text { Nan2t } \end{aligned}$ | 1 183\% | $\begin{gathered} \text { numbar } \\ 2 \$ 20 \end{gathered}$ | number | Dumber 705 | $\begin{gathered} \text { numbet } \\ 176 \boldsymbol{d} \end{gathered}$ |
| $10^{1} 2$ | 1600 | 2235 | 3535 | $\underline{2007}$ | 1dy9 | 3,3002 | 4507 | n nim | 1645 |
| 1503 | 1500 | 1535 | 3835 | 1764 | 1*30 | 3,700 | 1966 | 12*55 | 100 |
| 1123 | 1590 | 2 U 03 | 6063 | 1288 | 1631 | 4700 | 413 | 3.333 | 1480 |
| 1845 | 2500 | 1.158 | 468 | 9r1 | 18.21 | 11000 | 3007 | 14,007 | 1200 |
| 14.25 | 2300 | 2005 | 50003 | 1877 | 1833 |  |  | 11715 |  |
| 1527 | 2400 | 1524 | 4504 | 1393 | 1834 | 8, 085 | 2983 | 11 ate |  |

Quantity and Value of Oprum Exported from Calcutta

| LOONTRIESTO <br> क H H ICH <br> EXPUHTED | 1835* |  |  |  | 1833-36 |  |  |  | 1835-3\% |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (3pian <br> (Hichax) |  | $\begin{aligned} & \text { Oplame } \\ & \text { (Fibnares) } \end{aligned}$ |  | (18paum (Beher) |  | Opinm <br> (Bearea) |  | Opurat (Bular) |  | Upiare (Beanta) |  |
| Casat of Samotra | cureata | Tripeen | cheats | rupecs | cheats | rupces | chusata 14 | rapaes <br> $17,3 \mathrm{mo}$ | chuats | кирес | cherts. | 7uptet |
| Java | 10 | 9,350 | 20 | 19,700 | 968 | 115,04138 | 3383 | 3707345 | 37 | 76170 | 2050 | 2769918 |
| Perang ard Rost- |  | 178.074 |  | 12,07,378 | 119 | 146075 | 1506 | 10.00076 |  |  |  |  |
| Chom | 44.3 | 7403 143 | 1987 | $10^{053 / 4}$ | 55 | 69036 | $\pm 0$ | 48\% 95 |  | 75823 |  | 119875 |
| Pegut <br> Matclue latands |  | 1,870 |  | 24,943 |  |  | 36 | 71105 | 8184 | 12193493 | -2809 | $\begin{array}{r} 917928 \\ 2,16 \end{array}$ |
| Totas | 7,767 | 72,97.35 | 3,283 | 3157648 | 086 | 117760991 | 1940 | 15428581 | 8291, | 12342089 | 4143 | 6041196 |

Quantiry and Value of Opium Exported from Caleutta-(contented)

| COONTHIES TO <br> WHACH <br> EAPOBFED | 1857-38 |  |  |  | 183-39 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ophaten (Bhelar) |  | Opinma ( Bamater) |  | Opinm (Rehar) |  | Opian (Homarca) |  |
|  | cheats | rupers 91000 | chests <br> 9940 | rupers <br>  | obesta 27 t | $\begin{aligned} & \text { rupees } \\ & 1,54,440 \end{aligned}$ | the t <br> 307 | $\begin{aligned} & \text { 7прpes } \\ & \text { sigt, } \end{aligned}$ |
| Jia | 20 | 94900 | ${ }^{\text {\% }}$ | $\sqrt{51} 450$ | 45 | 43180 | 134 | (16,070 |
| Clinos | 11007 | 185, $\mathbf{7}_{7} 400$ | 1158 | 45,25,517 | 11187 | 05,663, 4 \% ${ }^{\text {d }}$ | 81812 | 2497390 |
| Matdiol lands | 13 | 10075 | 1 | 84 805 | 6 | 5,3,55 | 44 | 85, 030 |
| Total | 12 nes | $136,63,635$ | 7849 | 74.8622 | 1152: | 97.59503 | 0 E 5 | 4810895 |

Statement of the Quantaty and Value of Opiam from Calcutta during the following Years

| COUNTRIRS TO IVHICI EXPORTED | 1639-40 |  | 1840-41 |  |  | 1841-48 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Opiana <br> (Betenr) | $\text { ©ipiam }_{\text {(B+bares) }}$ | Opium (Rebar) |  | prium neres) |  | Pbuma | $\begin{aligned} & \text { Opium } \\ & \text { (Benares) } \end{aligned}$ |
|  | chuntan rapees | $\mathrm{lb}_{3}$ saper 1 | cluctal rapees | cheots | rupe | chesta | rup | cesto ruped |
| United Kibpdam | 1601 1600 <br>  3195 |  | 23 17 297\| |  |  | 31 |  | 寿 |
| C, log ${ }^{\text {cos }}$ | $7{ }^{7}$ ) 2539 |  |  |  |  |  |  |  |
| Pn aug a Ra twird | 8,2081380830 | 54681249713 | 62934059233 | bidid | 32,53 130 | 4523 | $3469 \mathrm{c95}$ | 3038 27050864 |
| ) $N$ | $30^{\circ} 3450$ | $30^{1} 13850$ |  |  |  |  |  |  |
|  | 538305070 | 130,102785 | $10^{800}$ | 45 | 3185 | 10 | 7000 | 45 94 425 |
| (br |  | 283 1030 | 468382.51584 |  | 609300 | 5082 | 60 cos 100 | titio 12,03 697 |
| Macketeuy |  | 64. 19 fret | 21485 | 74 | 46915 | ${ }^{24}$ | $\begin{gathered} 10115 \\ 1070 \end{gathered}$ | $\begin{array}{lll} 10 & 1040 \\ 1, & 830 \end{array}$ |
| Tutat | $\mid 12.44654,78,149]$ | $5,041 \times 5.16213$ | 1114374113396 | 6305 | 3938620 | 13,963 | $103,80,025$ | 5774 41 18,650 |

Statencent of the Value of Opum Exported from Bombay

| COUNTRIES TO WGICCH | 1834-36 | 1235-50 | 1830-37 | 1835-38 | 1834-35 | 1830-40 | 1840.41 | 1841-42 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EXPOERTBD | Opines. | Opinm | Opinm | Opinca | Ophra | Cpiama | Oplum | Opitm |
| Ceylan | 24pecs | mupees 2,18480 1,3398 | rupees | repata | rapeca | raptey | rupoca | ${ }^{\text {cupeee }}$ |
| Ctins | 9 gyn 01 | 1,33,98 701 | $24833+5$ | $10977565$ | 15897400 | 1938000 | $87.36847$ | 103 22, 115 |
| Penasg and Ratwavel | 159060 |  | 218654 | 2,03500 |  | \$0 78150 | $26,1 \mathrm{~A}, \mathrm{Sit}$ | 943340 1920 |
| Cutchand Scinde. |  |  |  | 809 | 1000 |  |  | +70 |
| Perstan Gutit |  |  |  |  | 141500 | 25 400 |  |  |
|  |  |  |  |  |  |  |  |  |
| Tofal | 90,35 965 | 136,13811 | 242,48,82l | 129,41,565 | 3,30,00 200 | 1290350 | 114,35 274 | 12,78880 |
| Hengel <br> Goost of Curemandt |  | 5500 |  |  |  |  | 4,0000 |  |
| Malabar and Ganara | 2, 560 | 5000 |  | 760 | 8,5000 | 2,325; |  | aro |
| Torat palut | 94,38 125 | 136,18742 | 24249885 | 11 12 42,325 | 1,59988760 | 42,08,875 | 11435214 | 1. [12, 79490 |
|  |  |  | $\begin{aligned} & \text { clapate } \\ & 21,0731 \end{aligned}$ | $\begin{gathered} \text { chessty } \\ 10 \text { gats } \end{gathered}$ | chests 1754 | cbests | $\begin{gathered} \text { chestr } \\ 25,763: 1 \end{gathered}$ | cherts 16386 |

Salt -The salt monopoly in Inda has been both uasound in prinesple and the cause of suffering on the part of those who requred thes most essential of all condiments But the very great reduction made during late years in the prace of salt by the Company, renders the monopoly itself less burdensome than in France, Austria, and even in Prussia-still, the monopoly is, as such, haghly objectionable, and ought to be abohshed If revenue be absolutely necessary, let it be a duty of customs if imported, and of excise when made in India But we would prefer that neither should be levied The following abstract of official Tables will serve to illustrate the profits of this monopoly -

Starement of the Quantity of Salt Sold and cleared from the Governmont Golahs in Bengal, distiogurehing that Imported and Sold by Government from the Government Manufacture, from 1835-36 to 1844-45, meluave



Statrment, showing the ordmary Cost and Charges, \&e, per 100 Maunds of Bengal Sall, from 1248 S \$ to 1250 S S, or Three Years, as per Adjustment for 184248, and Accoums for 1843-44 and 1814-45

| DBSEAIPTION | Net Quatity of Brit spite sand adjusted | Cont 1herear gand 40 Matur geas in sifudang Surraff se |  |  |  | Net Bale <br> Proceeds | Note Sale <br> Procesede, <br> per 100 <br> Mecude |  | Note Drofit, eod sait wold otha ad justed | $\left\{\begin{array}{l} \text { Profit per } \\ 100 \text { mannde } \end{array}\right.$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hidgelten | manaty 1903 |  | Co Ant | Co \#R $6 I$ | Dect |  | $\mathrm{Co}$ | Dre | $\begin{aligned} & C_{0} \neq 1 \\ & 6,12 \\ & \hline \end{aligned}$ | $\mathrm{Cos}_{\mathrm{s} 3\}} \mathrm{H}$ | Dect |
| Tumbak | 1964,715 | 8,53 28 | 837 ms | 78 |  | 48,70 230 | 409 | 766 | 35,41423 | 381 | - 18 |
| Twionty fout Pergin nalis Inchadjog febsare | 16,73 212 | 32,36,799 | 17883948 | 1095 | 745 | 7063,498 | 432 | 650 |  | 815 | 910 |
| Cbuttogong | 2121617 | 1301498 | 1729469 | 81 | 189 | 80, 94,225 | 409 | 782 | 6904,737 | 898 | 343 |
| Totas. | 6765978 | 4027251 | 5320290 | 41 |  | ,76,25,839 | 408 | 340 | 220,89010 | 326 | 65A |
| cong | ${ }^{6} 81780$ | 415100 | 493,414 |  |  | 21.74 136 | 408 | 841 | 17 50, 722 | \$29 | stas |
| Sulhes | 1092,310 |  | 6,54,398 | 16 | 253; | 4, 35 3asi | $39 \%$ | 5801 | 03, 0 6, 5000 | 318 | 777 |

Statemenme, shamng the ordinary Cost and Charges, ac, per 100 Maunds of Salt of the Cuttack Pronnces, atored in the Golabs at Sufleen, from 1248 S S to 1250 S S., or Ihree Years, as per Adjustment for 1842-43, and Accounts for 1843-44 and $1844-45$

| DESCAIFTION | Hett Qumatity sold and adjuatert | Cort <br> 4) Cerceaf pata to Molur Eseth in clading Surruff ale | Total <br> Cont nad <br> Clongen. | Torac Cont <br> and <br> Cbayget <br> por avertage <br>  | Neit Sule Proceeda | NettSale Proceeda per 109 Manad | Negt Proiton Sajt zold mud culatod |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | mannula | Cn ${ }^{5}$ | $\mathrm{Cb} \mathrm{s}^{\text {fig }}$ | Con min bec | $\mathrm{Cos}^{\mathrm{gr}} \mathrm{R}$ | Cn wRa, Derd | Coma | Co 4 E | Dec |
|  | 71949 | + 73.266 | 710 | P9 5981 | s1 85478 | 435230 | 約.as 185 | abs | 698 |
| Bafavere axit mi Suikw | \% 44099 | 19790 | 4. 4185 | 87 061 | 28,95 04.5 | 439 886. | tg 3s 330 | 252 | 8 st |
| Koordian alt int Spliner | 2,33 089 | 104979 | 2,38,483 | 娃 0089 | 10, 80 60\% | 447152 | 8, 02177 | 34.4 | 150 |
| Torala. | 1491187 ! | 574270 | 1112804 | 94.748 | 05,31,000 | 488 Ol3 | B1, 18 , 5 d | 343 | 970 |

## COMBLRCIAL AXD FIVANCEAL LEGISLJTIOV OF BRITISH INDEA

A langr revenue is certainly necessary to the cxistence and power of the East Inda Company withn the regoons now under their authority But a careful examination of the financial system of India will convince even ats sup porters that it is not free from oppressive severity in character and pactice, and, in many respects, unsound in principle, both commercially and fiscally That it must be reformed is evident, and commercially several reforms have been made especially with regard to the abolation of the transt duties, and the dimination made in the price at which salt is now sold under its monopoly by the servants of the Company

We cannot under the present head enter into the mass of detals in which the taxation of India is mpolved, and we can only suggest what appears to us indispensable with regard to increasing the quantity and value of our exportable products, and generally the commerce of Inda We would therefore re-commend,-

First - One general system of minernal taxation for all Indua
Second - The abohtion of all monopohes
Thard -One general system of customs' duties, abolishang all export duties, except on optum, upon whech an export duty may very farrly be leved to replace the revenue now denved from the monopoly

Fourth - In framing a tanff of moport duties, that the duties should be imposed solely for revenue, and without reference to the ongin of the article taxed, or to the ship in wheh mported, and that the commerce between one presidency or distict of India and another should be as free as between one county in England and another

Tyth-That mmedrately and proportionately to this geneial system of finance, which ought to extend from the foot of the Himalaya Mountans to Cape Comorin, it is mdispensable for the prosperity of India that the disorders and nusrule which prevall in the terntones of the Nizam and other native pronces should be terminated, and that there is no possibulity of good government, in these countries until the soveregnty is assumed by Butish authonty upon equatably arranged agreements wath those native princes

We have aleady guen tabular statements of the revenue and expenditure of Indin The fulloning are tbstracts of the existing customs' regulations, and the tarifis of the sespective presidencies -

## L4 Act No AII of the Pitint Honourabit the Gouemor Geveral of Indea in Councth, on the 30th of May 1846

[^20]as prescribe the lany of transut or inland customs dutues or of town diaties, and lskewise the sehedules of daties and provisions of any kind contataed ua these or any other regulations for fixing the amount of duty to be levied upon goods maported into or exported from the said presideney by sea, shall be repealed provided, however, that nothing heretu contamed shall be consirued to prevent the levy of duties at the rates now in force at the custom houses and chokies established on the line of the Jumba, or on any frontier line upon grods crossing that line for importiato or export from the territory of the East India Compaay by land, nor to affect the regulations in force for imposing and levging duties on salt, the produce of Western and Central India.

Il That duties of customs shall be levied on goods impoited by sea moto Calcutta, or tuto any other place wathon the provinces of Bengal and Orissa, according to the rates opectied in Schedule $A$ annexed to this act, and with the exceptions specified therein, and the sald wchedule, with the notes attached thereto, shall be taken to be a part of thes act

III That duties of customs shall be leved upon country goods exported by sea from any port of Bengal or Orissa, according to the rates specified in Schedule B annexed to this act, with the exceptions therein specified, and the sad schedule, with the notes attached thereto, shall also be taken to be a part of thes aet

IV That no goods or artucles whatsoever, entered in either of the satd schedules as lable to daty, shall be exempted from the payment of such duty or of any part thereof, except under special order Irom the Governor of Eengal, prowided, however, that at shall and may be lawful for the collector of castoms, or other officer in charge of a custom-house, to pass free of duty, as heretofore, any baggage in actual use at his diseretion, and in case of any person applying to have goods passed as such, the collector acting under the orders of the Board of Customs, Salt, and Opum, shall determine whether they be baggage in actual use, or goods subject to duty under the rules of this Act

V That the rules and regulations now established for the levy of duties of customa on goods mported into or exported from Calcutan and other ports of the Presidency of Fort William in Bengal, shell continue to be in foice, and shall be observed and applied for the levy of the umport and export dunes umposed by thas Act, vilicss repealed or altered, or repugamit to the provisions thereof

VI That it shali be lawful for the Governor of the Prestdency of Fort William in Bengai, by an order printed th the Calenifa Gazette, to fix a place in any civer or port in Bengal or Orissa, beyond which place it shall not be lawful for any invard bound vessel, save and except such dhoones and country craft as are bere vefersed to in Section XXII of this Act, to pass until the master or commander shall have delisered to the pilot on board, for the purpose of beng forwarded by the public dawk or other wise, as may be ordeied by the Board of Gustoms Salt, and Opitm, a mabifest made out in the form prescitbed And it as hereby enacted that if the manifest so delivered by the master and commander sball not contan a full and true specification of all che goods tmported in the vessel, the master or person it charge thereof shall be liable to a fine of 1000 rupees and any goods or packages that may be found on board in excess of the manifest so dehvered, or differing in quality or kind, or in marks and numbers from the specification contamed therein shall be hable to be setzed and confiscated, or to be charged with such mereased duties as may be determined by the Board of Customs, Salt, and Opium and if any mward bound tessel shall reman outside, or below the place so fixed by the Governor of Bengal, the master or commander shall in like manner dehver to the pilot, so soon as the vessel shall anchor, a manifest as abose preserbed, and if any vessel entering a port for which there is a custom house eskbhished, shall lie at anchor theren for the space of twenty four hours, the master and commander whereof shall neglect to dehiver the satd manifest to the pitot on board, he shall for such neglect be liable to forfert the sum of 1000 rapees reand no ediry or port clearance shall be given for such vessel until the fine ts pard

VII And it is hereby enacted that no vessel shall be alloned to break bulk unth the manifest described on the precedtog section of this Act, and another copy thereof ta
be presented at the tume of applying for entry inwards, shall have been recelved by the collector of customs, and order shall have beens grea by the sard collector for the dreharge of the cargo and the sand collector may further refuse to gne such order If he shall see fit, until any port cleanances, coekctt, or other papers known to be granted at the places from which the vessel is sated to have come, shall likewse be delivered to him

VII And it is hereby enacted that it sball be competent to the collector of customs at anv port of Bengal or Orissa at his discretion to send one or more officers of customs on board of any ressel at any tume, and the custom-house officer so sent, shall reman on board of such ressel by day and by arght, until the vessel shall leave the port or unh it be otherwise ordered by the collector of customs
14. Any master or person in charge of such vessel who shall refuse to recenve a custom-house officer on board when so deputed as above provided, on shall not afford such cfficer sutable sheiter and sleeping accommodation whie ou board, shall be hable to fine not exceeding the sum of 500 rupees for each diy durtog wheh such officer shall not be recened and provided with suitable shelter and accommodation

X Any master or person in charge of a vessel, who shalt resist such officer, or refuse to allow the vessel to be searched when so ordered by the collertor of customs, shall be hable, upon convigtoon for every such offence, to a fine of 1000 rupees, to be adjudged by any magistrate or justice of the peace of the place

Xi No goods shall be allowed to leave any vessel, or to be put on board thereof, unth entry of the vessel shall have been duly made in the custom-house of the port After entry of the vessel ar the custom house an due form, such part of the cargo as may not be intended and declared for re exportation in the same vessel, shall be sent to land, and export cargo shall be laden on board thereof, accordmg to the rules and practice now in force, and if an atterpt be made to land or put on board goods or merchandise in contravention thereof, the goods or merchandise shall be lable to selzure and confiscation

XIl Goods unmanfested not to be landed in ordinary form, but to be seized on bosrd Mister to be answerable that all goods manifested are fortheoming and duly passed under penalty of 500 rapees for each mussing package of unknown value, or double duty if assessable Rule for presenting an amended or supplemental manfest

XIII Custom-house officers taking unauthonsed fees or bribes, subject to penalty of 500 rupees Same penalty on persons offering

IIV Collector to mavestrgate, and adjudge confiscation Board's confirmation necessary

VV Twenty or thirty days allowed to clear mwards, according to tonnage, after which, the master to pay charges of the custom house officer Master to land goods if consignees do not, if these fall, a collector mav land and warehouse and may land pachages before twenty days, without consent of master

XVI Further period of fitteen or twenty days, for contiouous lading for exportation If the vessel be lad up, tide-water to search and leave certifying that it is empty Twenty and thitiy days, according to tomage, shlowed for lading a yessel outwards after being laid up, but search and ceruficate that nothing is on board necessary

AVII When penalty has been incurred by a master, the collector smay refuse port clearance of the vessel thl at be pard

XVIII Goods slupped after port cleatance to pay double duty, and five per cent If free

Vis In case of relanding for damage puting back in distress, \&e, officer to proceed on board to watch, and cargo not to be exempt from duty on re-export, unless all the while in charge of austom house officers Proniso for re unportation when dutes and drawbachs are to thend and master to forfett the value of drawback, goods not fortheomiag

1XC Yessels owaed $L$ : 14 in Srabia, and coming from the ports thereof, and hikewise the vessels of any w it if port of Abit, not subject to the dominton of the

King of the United Kingdom of Great Britain and Ireland，excepting dhoonses and small craft from the Maldive and Nicobar islands as herein ander provided，shatl be deemed foreign vessels

XXII Dhoonies，pountry craff，and ather small vessels not brought into the port of Calcutta by pilota，shall be requtred to anchor and moor in such part of the River Hooghly as shall be marked out by the collector of customs，whth the sanction of the Board of Customs Silt，and Opum，and if any such ressel shall nothor in any other part of the rner than as so marked out，and the master or person in charge thereaf shall not ummedrately upon being ordered so to do，move his vesset to the place marked ous， he shall be hable to fine of 100 rupees Vessels of this description commg from the Maldives，or from the Nicobar Islands，shall be consrdered as Britush vessels

Tanify，Schedule A－Rates of Duty to be charged on Goods Imported by Sea unto any Port of the Presidency of Fort Wilham in Bengal

| Number |  | When Imported an Briliah Elotzomes | When Imparted an 产oxelgu Dottom |
| :---: | :---: | :---: | :---: |
| 1 | Frition and cotr | trees | fres |
| 2 | Preciotiod atocis fad protrie | 413to | dilto |
| 3 | Grain abd puise | ditko | ditto |
| 4 |  | dititeo | dito |
| 5 | Jow | ditto | dito |
| $\stackrel{3}{7}$ |  | ditto | dutur． |
| 7 |  | drtay | 3 pery mext |
| A | Porcige boose | 8 pear cedit． | fin par ceat |
| 3 | Mancie stores，the produce of manaractirye or exa Detied Kitrdate or of anf Brilah peagersion | 3 yers evxt | 6 potcret |
| 10 | Ditto ditto the prodiace or manafacture of any other gince or comutry | 6 per coini | 19 Per ocint |
| 17 | Matala，Wiought or unnroutht tho promace or minultaturt of rite Vuted Ringdiom of any Herioh poakpasion | 3 per cent | 4 pur cont |
| 12 |  ture of any other glace | 6 per etnt | 17）par cent |
| 18 | Tin the produce of any other place than thu Uniked Kiag Jom or any Britush posadesor | 10 per eent． | 26 pex cunt． |
| 14 |  | 9 pet cent | 4 pert ofnt． |
| 38 | doni me any britill poysesgion <br> Dhtto the producc of aps othar plate of equatry | 4 percent． | \％pear leati |
| 16 | Carton end utic plece fooda cotion twat and yarn the pto <br>  | al yet cont | 7 pedr entat |
| 17 | Ditto the prapiece of aty olbur place | ${ }^{7}$ pert cedt | 14 per cent． |
| 15 | Oyatim |  | ＋4 Typera por seth of 80 tolan |
| 17 | Satil | 3－4 rapees yer matind of 80 tolas pet metor | 3－4 ropees ger magand of 80 toldot par pevr |
| 50 | － 3 mm | 10 per cent | 20 pret cent |
| \％ | Cantphor | 10 per segt | \％prat cout |
| 94 | Cins tr | 10 per cent | 9t pur cent |
| 28 | Citswey | 10 per comt． | 20）put centi |
| 21 | Cofrea | 74 per cent | 13 par yeut－ |
| 25 | Corsi | 10 jer cemt | 30 pet getus |
| 新 | Nutmeg\％an 1 maxce | $1{ }^{1}$ per ectre． | 20 per cont |
| 年 | Fepper | 10 pror cent． | Ot porcant |
| 88 | Hatiand | 7d putr cent | 15 per ceat |
| 20 | Tea | 10 prr ceat． | 90 por ceat． |
| $33)$ | \％turm 1tors | 10 percent | 2n per cent |
| 5 | Wine\％and Iinuevifs | 10 рer cent | 06 per ctat． |
| \＄4 | $\mathrm{S}_{\mathrm{p}}$ irats conmidintel daty pacludiag that levied heretofores through the polloe of C leata <br> And the dity on apirite shatl bo ratoably fueressed as the mirength axcerals of Lamdon proof and whear las perted to boples，fis quart bothios diall be deamur equal to tha hmperial sollion | anmas per fomperfia： gallon | It ancran fer jupertal gellon． |
| 83 |  | d）per cent． | 7 per cent |

And when the duty is deciared to be ad valarem it shall be levied on the market value without deducion，and if the collector of customs shall see raason to doubt whether the goods come from the country from whech they are declared to come by the unporter it shall be lawful for the coliector of customs to call on the importer to furnath evidence as to the place of manufacture or production and if such eridence shall not satisfy the sadd collector of the truth of the declasitha，the gooda shall be charged with
the highest rate of duty, subject always to an appeal to the Board of Customs, Salt, and Oprum

And upon the re-export by sea of goods imported, excepting oprum and salt, provided the re-export be made within two jears of the date of impoit as per custom-house register, and the goods be identified to the satsfaction of the collector of customs, there shall be retaned one-enghth of the amount of duty lepred, and the remainder shall be repaid as drawback And if goods be re-exported in the same ship without being landed (always exceptugg opum and salt, in regard to wheh the special rules an force shall coutinue to apply) there shall be no mpors duty leved thereon

Turify, Scieepuxe B -Rates of Duty to be charged upon Goods Exported by Sea from any Port or Place an the Presdency of Fort William in Bengal


And when the duty is declared to be ad valoven, the same shall be leved on the market value of the arucle at the place of export, wathout deduction

And in sething for the duties on exports by sea, credit shall be given for payment of infand customs duty, and drawback shall be allowed of any excess of duty paid upon production of ruwanas under the following conditions, untul the 1st of April, 1837 -
lat That the goods shall be adentified, and destination to the port of export proved
he usual manner
ond That the ruwanns shall bear date before the 1 st of April, 1836, and the goods sholl not have been protected thereby, or by the orignal thereof, more than two years

And after the satd 1st of April 1837, credit shall not be given, nor shail drawback be allowed of any mland customs or land frontier duty pard at anj custom-house or chokee of the Jumna fronter line, or of Benares, except only upon the article of cotton wool covered by rowanas taken out at the custom bouses of the Western Provinces, and proved to have been destmed tor export by sea when passed out of those provinces

## By Act No XXV, of the Mught Honourable the Governor-General of Indsa in Cotrreth, on the 318t of Ootober, 1836, at w enacted that-

I Governments of presidencies are to declare warehousing ports
II Importers may then warehonse
III Making application in Form A, annexed Goods first to be assessed for customs' duty Warehouse-keeper to be answerable for welght or gauge of the customhouse, allowing for wastage

IV Misudescription of tale goods or packages to injury of revenue, punishable by fine of ten times the loss Ertor of overstatement may be rectified before, not after entry into warehonse.
$V$ Packages to be marked and numbered before recepuon into warehouse
VI When the duty exceeds 100 zupees, bond may be executed for it in Form B , and goods tway then remain in warebouse for fifteen cionths without demand of duty Bond to be for twice the duty, and to bear interest from the date of demand The obligee to be bound for all duties and charges clamable on the goods, and for all penalues
VII. But collector to bave power to proceed aganst the goods or under the bond, at his option, and to detan goods and sell after ten days, if the demand be not paid Proceeds of sale to be written off on the bond, and surplus pard over to the owner of the goods No transfer to bar this process

VIII After fifteen months, the board may renew the bond for other fifteen months
IX Goods relanded from a vessel put back, may be warehoused without bond, and re-shtpped under the previous settlement of dutiea Exception unless the goods should be lable to duty on beng passed through the custom-house for importation

X Reserved duty on reexport to be chargeable on removal of goods for shipnent and bonds to be cancelled on payment thereof

XI "On removal otherwise than far re-export, or if not cleared in time, full import duty to be lensed, with interest and charges, and collector may cause goods to be sold in satisfaction, if not paid to ten days

XII Removal of goods to be noted $m$ the bond, with particulars
XIII And the same particulars to be registered in the register of boads When registry shows all the bonded goods to have been cleared out, bond to be cancelled, and returned to the obligee

XIV The cuatom house godowns and other government godowns to be public warehouses These to be under the collector's or waveboure-keeper s key

XV Board to determine what goods are to be recesvable into publtc warehouse, and the terms and rates of warehouse rent or hre Table of rates to be exposed conspicuously

XVI Owners to have access to their wareboused goods, attended by a custom house officer, during business hours

XVII Expenses of carnage, packing, \&c, are to be borne by the owners, and to be reaised as customs daties Bill for rent to be sent in monthly, and it not paid in ten days, goods may be sold in eatisfinction Collector not ajswerable for loss by tre or other accident, nor for damage

XVIII Wastage to be allowed as per table

Table of Wastage to be allowed upon Goods when appled to be vemoved ether from Public or Private Lacensed Warebouses

| Detcription of Seods． | Rute of tif antigo | Description of Goode | Nate of Wratago |
| :---: | :---: | :---: | :---: |
| Alsali | $\begin{gathered} \text { peot cent } \\ 3 \end{gathered}$ | Hene limentick and geed | $\begin{gathered} \text { por cent } \\ 8 \end{gathered}$ |
| Alums | 3 | Lotic perper tund loug pepper rout | 8 |
| f Aniso | 3 | Othe ensketial and fragrant | 8 |
| \｛ Curiander | 5 | Restn or dampiter | $74$ |
| Aromatic sceds $\left\{\begin{array}{l}\text { Guramis }\end{array}\right.$ | 3 | \＄ 50 | 4 |
| Aromitic sceds $\{$ Calizerab | 3 | Sugar | 4 |
| OArdandimat | 8 | Saltyeltry |  |
| （Jownin | $\stackrel{3}{4}$ | Soap |  |
| Betatumat | 71 | Wrlk | 5 |
| Brimmtonit | 3 | －Clurea | 厚 |
| Ornuphar | 2 | Clinamon | 2 |
| 《位＋ | 5 | spleys Cansin | 3 |
| Coppe as 7 green witrdul | 3 | －pues 5 | 5 |
| Cotean 5Font | 4 | （ Pepper | 0 |
| Dry grigar | 10 | Toluect Pupento or milspice | 2 |
| Gumis and drage not mithet wince epecaficd | 3 | Tobsece unpreparcel． | 5 |
| lron wrought hxps | 3 | Turpenthe | 6 |
| Indigo | 5 | Tatenague | Y |
| Kateb or turre japoolica | 3 |  |  |

 recerived fato warehondes
XIX Board may heense any private warchouses License to be revocable at pleasure，unless otherwise stipulated

XX Applications for hicense for private warelouse to be in Form C，whth particulars cilled up

XXI Collector or warehouse－keeper to have access to all hicensed warehouses for himself and hiv officers Proprietors refustag admittance，subject to peanlty of 1000 rupees，and withdrawal of hicense Bonds for dity to be put an suit seven days after notice of such penalty or of withdrawal of hicense

XXII If goods be found defictent begond the wastage allowance，at the of delivery from warehouse，owner to forfeit ten thmes the duty on the deficlency，if found excessive， ten tumes the daty to be pad on the excess，and goods to be detanaed till paud

XXIII Cullector of customs may issue warrant for breaking pachages，to search and examme goods When repacked，to be sealed，and seal nol be rebroken without senction of board，except under application from proprietor then to be resealed

XXIV Goads to be stamped on reception moto or delivery from watehouse The stamp not to be removed or eflaced without sanction of collector，under peanlty of 500 rupees on conviction before a magistrate but owners may be allowed by the collector to take samples

XXV Goods not to be removed from warehouse without betng passed through the custom－houso

XYV］If a pachage be broken，duty to be levied on all the goods contatned theren
XiVII Applicaturs to remove goods to be made in Form D，and twenty－four hours notice to be given of removal

XXVIII Gwods may be removed from one werchouse to another，application benng made mint E

XXIX No duty to be levided on goods destroyed by fie or other accident，and if danaged dity to be leyved on the damaged value

XXX Penalties under this Act to be adjudyed by the collector of customs，subject to coubumation by the Board or other superior nathority of customs

## A－Form of Apphcation for the Reeephon of Coods Imported by Sea in Warehouses

## $T o$ the Collector of Sea Customs at Calcutta

 $S_{i}$,Piease to order the reception moto the Government（or private warehouse of Mr A B，stuate at
，and heeased by No． ，dated ），of the undermentioned goods，beang of the growth or manufacture of
(place to be stated), and arrived from (port or place to be mentioned) on the (British or other) shap whereof is commander, the duty upor which goode bas been adjusted to the manner hereafter specified

| Marks and Number Patkuges | Deseription of <br> Packigen and Goodr. | Gontenta <br> of Geods, | $\begin{aligned} & \text { Bate } \\ & \text { of } \\ & \text { velloe } \\ & \text { oftho } \\ & \text { Goods } \end{aligned}$ |  | $\begin{gathered} \text { Rate of Doty } \\ \text { Doth of } \\ \text { Costoan } \\ \text { Rowid Duty } \end{gathered}$ | $\begin{gathered} \text { Date } \\ \text { and } \\ \text { Mantror } \\ \text { nf } \\ \text { Iuxportatron } \end{gathered}$ | Specificaban of the Particulare of Bonda if the Daty upon the Gooria has been Bonded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Totat |  |  |  |  |  |  |  |
| (Date) |  | (signed) |  | (By the owner, agent, or constgnee of the goods, |  |  |  |

B-Form of Bond for Emport Dutes

Know all men by these presents, that we
at Fort Wilham, 1 t the prownce of Bengal, in the East Indies,
now of Caleutta, and of the same place, are jointly and severally held, and firmly boond unto the East Indsa Company in the sum of rupees to be paid to the sad East India Company, or their certan attorney, agent, successors or assigus, for which payment well and truly to be made, we jontly and severally bind ourselves and each of us, and our respective herrs, executors, admimistrators, and representatives, by these presents sealed with our respecweve seals, dated the
day of
in the
year of Chist for themselves, and each of them and their respective heirs and representatives, covenant and agree, that in case of dispute touchmg the matter of this obligation, or the condition thereof, the same may be heard and determined in the Supreme Court of Judicature at

Whereas, the above bounden
hath (or have) applied to the collector of sea customs of the sard East Indra Company at for, and have obtarned permission to, lodge in a certan public (or licensed) godown, for a period of fifteen months, subject to the rules or regulations of Government, the following goods that is to say (here a large blank should be left for describing the goods), being of the growth or manufacture of and imported by sea from ot board the
ship and entered in the custom-house books, as No
of the register of goods imported by sea.
Now the condition of this oblgation is such, that of the above bounden (the priacupal) his or their heirs, executors, administrators, representatives, or assigns, slaill in all thungs well and truly observe and keep all and singular the rules prescrbed in Act No XYY of 1836, to be observed and kept by the owners, moporters or consignees of goods bonded and warehoused, and by the persons obtaining permission to bond and warehouse goods under the pronsions thereof and if the said
(the principal) his (or their, if more than one) heirs, executors, admumstrators, representatives or assigns, slo and shall well and truly pay, or cause to be pand to the collector of customs for the ume being for the port, all such dues, whether of customs or of lawful cbarges, as shall be due or demandable upon the sand goods, or on account of penaltes mocurred in respect to them at or before the expration of fifteen months from the date of these presents, or before or at the expration of such further time as the Board of Customs shall allow in that behalt, together with minterest thereon at the rate of per cent per annum from the date of demand thereof being made by the sard collector of customs in writing and further, if the satd goods after being so warehoused, or any part thereot shall not withn the term so fixed, or to be enlarged, be removed fiom the sard public (or licensed) godowns or thease the said goods or any part thereof shall be removed from the sard public (or hoensed) warehouse at any tume withun the sand term, etther for importation or for exportation by sea, then, and in such cose, of the full amount of all such duthes, charges, and penalties as way be payable or demandable as aforesaid, shall have been first paid and satisfed on the whole quantity
of the satd goods then this oblugation to be rod and of no effect, othernise, and on breach or foilure in the pufimance of the sad seseral condatens, of any) of them, the same to be in full force and virtue Sealed and delnered, \&e

> C-Form of Applirutzon to oltarn Licerse for Prevate Wa, ehouses
> To the Collector of Castons at Calcuta

Sir,
Please to cubmit to the Board of Customs (or other controllug authory $\begin{gathered}\text { of customs) }\end{gathered}$ ny request to bo furnomed with a lrcebse under Act No XAV of 1836 for a warehouse stuate at and about the distance of bards from the custom-house the dimenstons and other particulars of the godown are stated below, and the same 13 mintended for the recepuon of all goods as a general starehouse for as the case may be) the period of hicense not to exceed (mention the time for which pernod)

Particulats of Godown

| Lenwth, feet, | inches |
| :--- | :--- | :--- |
| Breadth, | ditio ditto |
| Height | dito dito |

\{ Dry arry, well flued and puchah buit Breadth, ditto ditto
The same beng my own property (or the property of lave ensaged the same on a fase of

## D-Torm of Applecation for Removal of Goods from $H$ archouses

To the Collector of Gorernment Customs

$$
S_{i r},
$$

Pleasc to order to be passed from the (Government or private) warehouse of Messrs $A$ and $C o$ situate at of 1836 , by No dated the undermentioned goods intended for exportation by sea on the Brish shep captain bound to or for internal consumption of to be consigned to (any stacion m the interior, as the case may be) the same having been entered in the books of fout office fur the sad warehouse, under No dated by (me or by Mesats B $\&$ Co, whose certificate of the tranifer of the goods is herewht andexed)


Custommouse value of the above rupees and please to recenve the amount of duty bonded for the sand goods, by bood No dated aw ng drawback for exportation on Brath ballom (or as the case may bu)
(Signed)
(Either by the owner, agent, or consiguee of the goods)

E-Form of Applentuon for the Remon al of Goods from one Darehouse to another durng the Perwil for whech the 1ndulgenee of harehoustay may have been obtaned

To the Collector of Government Customs at Caleuta Sif,
Pleabe to permit the removal of the ander mentroned goods from the (government or ohbe hrensed) varelonuse, to (ibe warchouse nto which the removal is intended to be made, mast her be distuctly described) for the unexpired period of warehousing dae
on the goods, the same having been orginally entered by virtue of Act No XXV of 1836, in the books, of the warehouse department under No , dated for fifteen months (or sueh othel period as may have been allowed, to be here stated) under all the obligations and conditions at present attachod to the goods


Note -If the goods to be temoved shall have been sold or transferred by the original propretor or agent, a certficate of such sale or transfer shall accompary the application.
(By the owner, agent, or (cons!gnee of the goods

## By Act No XXXIT of 1836, passed by the Rught Honowrable the Governor-General of Indua in Courret on the 28 th of November, 1836

It is enacted, that if any person after the lst day of December 1836, lands or attempts to land in any part of the territortes subject to the government of the Presidency of Fort Wiliam in Bengal, any sugar whicls ss not the growth of a British possession mito which forengn sugar cannot be legally imported, such sugar shall be seuzed and confiscated by the collector of customs, or by any other officer thereunto authorised by the governor of the sand presidency, unless the district in which such sugar is landed, or in which an attempt has been made to land such sugar, be a district in wheh the Governorgeneral of Indiain council bas authorised the importation of such sugar

## By Aet No XIV of the Rughe Hononrable the Governor-General of Iudec in Counct, on the 12th of June, 1837

It is enacted, that whenever any foreign state in Asta or Africa shall permit witho the domiauns of such state, the mportation or exportation of goods in Pytish vessels on the same terms on which it permits the importation or exportation of goods in vessels belonging to the subjects of such foreign state, it shall be lawful for the Governorgeneral of India in councit, by an order in counel, to direct that goods may be umported into the terrtories of the East India Company or exported thence to vessels belonging to the subjects of such foreign state, on the same terms on which such goods are anported into the said territortes, or exported thence in British vessels

## By Act No XVI of the Rught Honourable Governor-General of Indua an Councul, on the 3rd of July, 1837

It $1 s$ enacted, that when the customs duties fixed to be levied upon goods exported by sea from any port of Bengal or Orissa shall be ad valorem, the value of such goods shall be declared by the exporter in the manner preseribed for goods imported into Calcutta by sea, and the provisions shall apply to goods mitended to be exported by sea in like manner as for imported gooda, and the value so to be declared by the exporter, shali melude the packages or materials in which the goods may be contanned, and it shall be lawful for the governor of the Presidency of Fort Willam in Beugal, from tome to ume, by notice in the official "Gazette" to fix a value for any articie hable to ad walorem duty, and that the value so fixed by the governor of the satd prestency shall, tull altered by a sumilar notice, be taken to be the value of auch artucle for the purpose of levging duty on the same.

No paymant shail be made of drawbach unon any goods exported from any port of Bengal or Orissa, unless tie export be made within two vears from the dite of the import in the custom house regsters, nor unless the clam to receive such drawback be made at the ume of exportation, nor unless the amount due thereupon bo demanded within one year from the date of entry for shipment in the custom-house registers

The Buard of Customs, Salt, and Opium, shall have power to fix and from time to ume to alter the rates of whattage and godown rent charges, and to determine the time for which goods shall be allowed to reman on the wharfs of in the godowns of the custom house, free of charge, while the goods are being passed for import or export by vea

It shall be lowiul for the collector of customs, whenever he shall see fit, to require that goods brought by sea and stowed so bulk, shall be weighed on board ship before being sent to land, and to levy duty according to the result of such weighang

## By Act No I of the Honourable the President of the Councll of Indua in Counoul, on the 3rd of January, 1838

I It is enacted, that from the 1st of February, 1838, all Regulations of the Bombay Code passed before the year 1827 and now in torce, with the exception of Sections I, II and III, Regrlation VI, 1799, and of clause 2, Section VII Rezufation IX, 1800, and of Sections XIV , XVII, XX, XXI, and XXV, Regratation!, of 1805, and of the whole of Regulations II, 1810, and VI 1814, shail be repealed

II And it is eaacted, that Chapters 1, II, IV, VI, VII and IX, of Re gulation XX, 1827, of the sald Code, tigether with the Appendices A, B C, E, II, I J, K, of that Regulation, also Regulation II, 1831, Reguiation XIII, 1831 Regutation I 1832, Regulation IV, 1833, and Regulation IV, 1834, of the said Code ind ail such parts of any Regutations of the satd Code as prescribe the levy of transit on mand customs' daties, or as require the payment of any fee whatever on account of any vessel whech may enter any port in the territories subject to the Bombay Presidency, and likewse the provisions of any kind contamed in those or in any other Regalations for fixing the amount of duty to be levied on goods inported or exported by sea at any place withn the limits of the Bombey Presidency, or the drawback payaiblc on the snme shall be repealed, and it is further enactud, that Act No Il of 1836 shall hikewse be repeated, except in so far as it repeals any Regulation of the Bombay Cipde

III Provided always, that nothing contaned sa the two preceding sections of thus Act shall be construed to prevent the levy of any town duth, of of any munctipal tax, or ot any toll on any brdge, soad canal, or causeway, for repair and mantenance of the same, or of any fee tor the erection and mantenance of lighthouses

IV That duttes of customs shall be levied on goods impoited by sea into any place in the terrtonies subordinate to the government of the Presidencr of Bombay, after the said lat of February next, according to the rates spectied in Schedule A, annexed to this Act, and with the exceptions spectied therein, and the said Schednle, with the notes attached thereto, shall be taken to be a part of this Ant

V That dutes of customs shall be levied upon country goods exported by sea from any ports of the Bombay Presidency after the sard lst of tebruary next, according to the rates specifiad in Schedule B annexed to this Act, with the exceptions therem specibed and the stid Schedule with the notes attached thertio, shall also be taken to be a part of thas Act

V1 Thas the hhips of any Luropean nation having firman privileges in the port of Surat slaall not be subject to further dutues of import or export than my be preserbed by thetr firnans respectively, any thing in the Schedules or in this Act notwerbst inding

1h That dutes of customs shall be leved on goods psusing by land moto or out of torcign Luepean setulements, situated on the line of coast withan the limita of the

Presidency of Bombay, at the rates prescribed in the schedules of thss Act for goods moported of exported on foreign bottoms at any British port in that presidency

VIII That it shall be lawful for the governor in council of the Presidency of Bombay to declare, by nouce to be publashed sn the Gazette of that presidency, that the territory of any native chief, not subject to the jurisdiction of the courts and civid authorities of that presidency, shall be deemed to be foreign terntory, and to declare goode passing into or out of such terrtory hable entber to the duty fixed for Brash or for forergn bottoms, as the sad governor in counell may thins for

IX That for the levy of duties of customs as above provided on goods exported be land to, or imported by land from such foregn territories, customs' chokees may by established at sueh places as may be determmed by the said governor in council, and every officer at every such chokee shall have power to detann goods passing into or out of any such foregn territory, and to enamme and ascertano the quantites and kinds thereof, and such goods shatl not be allowed to pass across the fronter line out of or into the territory of the East India Company, untal the owner or person in charge thereof shall produce and dehver a centuicate showing that the custome' duty levable thereupon has been pard in fult
X. That it shall be Jawful for the sald governor in councll to appont such officers an ho may think fit, to receive money on account of customs' duties, and grant certuficates of the payment thereof, and that auch a certuficate beng delivered to any chakee officer shall entite goods to cross the fronter into or out of the East India Companys territones, provided that the goods correspond in description whi the specification thereof contaned in such certricate, and that the certificate show the evtire amount of duty leviable on those gonds to bave been duly pard

XI That the seid governor in council shall give pubice notice in the offical Gazette of the Presidency of Bombay, of the appatatraent of every officer apponted to recetpe eustoms duties on goods crossing the land froalter of the sand forengn territories.

XII That no certificate ahall be received at any chokee that shall bear date more than thirty days before the date when the goods artive at the chokee

XIII That at shall be fawful for the sad goversor an council to prescribe, by public notice in the official Gasette of the Presideacy of Bombay, by what routes goods aball be allowed to pass into or out of any such foreign terntory, as is described in Sections VII and VIII of this Act, and after such notice shail be given, goods which may be brought to any chokee established on other routes or passes than those so prescribed, shall, if provided with a cerificate, be sept back, and if not prounded with a certificate shall be detathed, and shall be liable to configration by the collector of custons, unless the person in charge thereof shail be able to sausfy the sad collector that has carrying them by that route was from Ignorance or aceident

XIV That goods which may be passed, or which an attempt may be made to pass across any frontier guarded by chokees betteen sunset and suinse, or in a clandestme manner, ahall be seszed and confiscoted

XV That any chokee officer who shall permit goods to pass across the frontier twhen not covered by a sufficent certificate, or ubo shall permit goods to pass by any prolibited route, shali be hable to imprisonment for a term not exceeding six months, and to a fine not exceeding 500 rupees, if not paid, to imprisonment for a further period of sux months

XVII All goods imported by sea zoto any port of the Presideacy of Bombay from any foregn European settiement in Inda, of from any native state the maland trade of wheh has been declared by the governor in counen of the Piesidency of Burabay, under Section VIII of ther regulation to be subject to the duthes levied on foresg bottoms, shall be liable to the same duties as are imposed by Schedule A on imports on foreiga bottoms

XVIII No goods whatsoever entered so eather of the Scliedules of this Act as lable to duty shall bo exempted from the payment of such duty, or of any part thereof, except under special order from the governor in council of the Presidency of Bombay Provided always, that it shall and may be lawful for the collector of customs, or other officer in charge of a custom house, to puss free of duty any baggage in actual use at
his discretion and if any person shall apply to have goods passed as such baggage, the collector acting under the oders of the gosernment, shall determine whether they be basgrge un actual use or goods subpect to dutv ander the provisions of this Act

XIX When goods are imported at any port of the Bombay Presidency from any otber port in that prostdency under certhitate that the export dity specified in Sebedule $B$ has been duly pad thereon, or that there has been a re export, and that the import duty specfied in Schedule A has been duty paid, the said goods shall be admitted to free entry

XX When duties of customs shall have been pard on any goods at any port in any part of the territones of the East Inda Company not subject to the Presidency of Bombay and when such goods shall subsequentily be importcd at any port of the Presidency of Bombay, credit shall be given at such last mentoned port for the sum that may he proved by the production of due certficates to bave beea so pard

XXI It shail be lawful for the governor in councl of the Presidency of Bombay, from tume to tume, by notice th the official Gazette of that presidency, to hx a value for any article or number of artucles lable to ad valorem duty and the value so fixed for such articles shall, tilt altered by a simiar notice, be taken to be the value of such articles for the purpose of levying duty on the same

XXII When goods itable to duty, for which a value has not been fixed by such a notice as is above directed, or for which a fixed duty has not been declared by the Scledules annexed to this Act, are brought to any custom house in the Presidency of Bombly for the purpose of beang passed for umportation or exportation, the duty leutable on such goods shall be levted ad valorem, thit is to say, according to the market talue of such goods at the place and time of importation or exportation, as the case may be

XXIII The market value for asessment of duties on ad valorem goods shall be declared by the owner, consignee, or exporter, or by the agent or factor for any of these respectively, upon the face of the application to be given in by hum on writng for the passing of the goods through the custom-house, and the value so dechared shall include the packages or materials in which the goods are contaned and the application shall truly att forth the name of the ship in which tise goods have been mported or are to be exported the name of the master of the sard ship, the colours under which the satd ship sails, the number, description marks, and conteats of the packages, and the country in which the goods were produced

XXIV Leery such declaration, when duly signed, slall be submitted to the officer of customs appointed to apprase goods at the custom house, and if it shall appear to hmm that the same is correet, he shail countersign it as admitted, but if any part or the whole of the goods shatl seem to him to be undervalued in such declaration, he shall report the same to the collector of customs, who shiall have poser to take the goods or any part thereof as purchased for the government at the price so declared, and whenever the collector of customs shall so tale goods for the government, payment thereof shall be made to the consugnee or importer, if the goods be amported goods, within fifeen days from the date of the declaration the amount of import duty levabie thereon being fist deducted, and if the goods be intended for exportation, the entire value as declared shall be patd without deduction on accoum of customs duty

AAV It shall be lawful for the governor in coment of the Presidency of Bombay to declare by public notice on the officul Gazette of that presidency, what places withun the same shali be ports for the laoding and shepment of merchandise, and any groods that may be landed or which an attempt may be made to land, at any other port than such $3 s$ shall be so dechired shall be serzed and confiscated

D $\lambda 1$ When any vessel shatl arrive to any port of the Presidency of Bombay, the master hall diliser a true manatest of the eargo on board, made out according to the form nnexed th this Art and marked C

Yil II If the manitest so delsered by the master shall not contam a full and true ep pectication of ail the oods imported in the vessel the sad master shall be liabie to a five of 1000 rupees and any goods or paciar res that may be found on board re excess of the manfest so delivered, or diftering in quality or kind, or io matks and numbers, from
the specification contaned therein, shali be lable to be seized by any customs officer and confiscated, or to be charged with such uncreased dutics as may be determined by the collector of customs under the orders of government

XXVIII If any mward-lbound vessel shall remain outside or below the place that may be fixed by the said governor in counctl for the first dehvery of manifests, the master shall deliver a manifest as hereinbefore preseribed to the first person duly empowered to recesve such manifest that may come on board, and if any vessel entering a port for which there is a custom-house estabhohed, shall he at anchor theren for the space of iwenty-four hours, the master whereof shall refuse to deliver the sand manilest an the maner above prescribed, he shall for such refusal be liable to a fine not exceectrigg 1000 pupees and no entry or port clearance shall be given for such vessel antll the fine is pand

XXIX No veasel shall be alloved to break bulk until a manfest as required by this act, and another copy thereof to be presented at the time of applying for entry mwards, If sa requined by the collector of customs, shall have been recelved by the sard collector, nor until order shall have been ghen by the said collector for the discharge of the cargo.

XXX No goods shall be allowed to leave any vessel, or to be put on board thereof until entry of the vessel shall have been duly made in the custom-house of the port, and unti order shall have been given for the discharge of the cargo thereof as above propided

XXXI If goods entered in the manfest of a vessel shail not be found on board that vessel, or if the quantity found be short and the defietency be not duly accounted for, or If goods sent aut of the vessel be not landed at the cuatom-house, or at such other place at the colfector of customs shall have prescribed, the master shall be liable to a penalty not exceeding 500 rupees for every missing or deficient package of unknown value, and for twace the amouot of duty chargeable on the goods deficient, and unaccounted for, if the duty can be ascertamed provided, however, that nothing heretn contamed shali be construed to prevent the collector of eustoms from permiturg, at his discretion, the master of any vessel to amend obvous errors, or to supply omassions from aceldent or inadvertence, by furnishmg an amended or supplemental manifest

XXXII There shall to every port of the Bombay presidency be one or more phices appomed for the landing and slupmens of goods and goods shall not be landed at any otber place without the spectal order in writiog of the collector of customs for the port

XXXIII If the governor in councll slall see fit, for the secunty of customs at any port, to manitain special estabishmeats of boasts for the landing and shipping of merchandise, or to license and regoster the carga-boats plying in any ports, then after due notification thereof, it shall not be lawful for any person to convey goods to ar from aay vessel in such port, otherwise than in the boats so authorised and prescribed, except ueder special permit from the collector of customs at the port, and any goods that may be found on bourd of other boats than those so authorsed for the port, shall be hable to be seized by any officer of customs, and shell be lable to confiscation

XXXIV When the governor in councal of the Presidency of Bombay shall see fit to maintan at any port an establishment of officers to be sent on board of vessels to watch their unlading and lading then, after due notification shall have been given that such establishment is so mantaned at any part, the collector of customa at that port shall have power at his discretton to send one or more officers of such establishoment to remain on board of any vessel in such port by nught and by day, untul the vessel shall leave the port or it sbali be otherwise ordered by the collector

XXXV Any master of such vessel at such port who shall refuse to receive such officer with one servant of board or siall not afford such officer and such servant sutable shetter and sleeping accommodation whle on board, and liketise farmsh them whth a due allowatice of fresh water, if necessary, and with the means of cooking on board, shall be hable to a fine not exeeeding the sum of 100 rupees for each day durting which such officer and servant shall not be recelved and provided with sutable sheher and accommodation

XXXVI Whenever a collector of customs shall see cause to dinect that aby vessel
shall be cearehed he shall assue his warrant or written order for such search, addressed to any officer under hus authorty, and any master or person in charge of 3 vessel, who shall ressist such officer or refuse to allow the vessel to be searched when so ordered by the collector of eustoms, shall be lable upon conviction for evcry such ofence to a fac of 1000 rupees Concealed goods to be confiscated

XXXVII Every master of a vessel who shall remove from such vessel or put on board thereof any goods, or cause or suffer any goods to be removed from thence or put on board thereof between sunrise and sunset, or when the custom house is closed for business without leave in writing obtathed from the collector of custorns, shall be fined not exceeding 500 rupees

XXYVIII No cargo boat laden with goods matended for exportation by sea shall make fast to or he alongside of any vessel on board of wheh there shall be a customs' officer stationed, unless there shall be on board the boat or have been recesved by the said customs' officer, a custom-house permit or order for the shipment of the goods and the goods on board of any boat that so be alongside or be made fast to a vessel, if such goods be not covered by a custom house pass accompanyng them, of prevonsly receved by the customs' officer on board, the sard vessel shall be brable to confiscation

XXXIX There shall be sent with each boat load or other separate despateh a boatnote, specifyng the number of packages and the maiss and numbers, or other description thereof
XL. When goods shall be brought to be passed through the custom-house, if the packages in wheh the same may be contaned shall be fuund not to correspond with the descreption of them, the whole of the goods contaned theren sball be hable to confiseation

XLI If any person, after goods have been landed, and before they have been passed through the custom house, removes or attempts to remove them with the intention of defrauding the revanue, the goods shall be lable to confiscation

XLII It shall be lavful for the collector of customs whenever he shall see fit, to require that goods brought by sea and stowed on bulk shall be weiglied or measured on board shap before being sent to land, and to levy duty according to the result of such weughng or measurement

XLIII On application by the exporter of any salt that has pad the excise duty fixed by act No XXYII of 1837, a certficate shall be granted by the collectur of customs at the piace of export under authority of which certifiute the quantity of salt speetsed theren shall be landed at any other port of the satd Pressdency of Bombay, and shall bee passed from such port toto the suterior wathout the levy of any farther duty elther of excise or of customs

YLIV Twenty days, exclusive of Sundays and holidays shall be allowed for the discharge of the import cargo of vessels not exceeding 600 tons' burden, and tiurty days exclusive of Sundays and holidays, for the discharge of the tmport cargo of vessels exceeding that burden

XLV When there shall be no custome' officer sent aboard vessels dischirging cargo, $u$ shall be lawful for the collector of customs to fix a period not being less than twenty days tot the discharge thereof and clearance of the vessel hiwards and if any goods acman on board aiter the tume sofixed, or after the time allowed in the last preceding sective of this act, the collector may order the same to be landed and warehoused for the securty of the dutieschargtable thereon, and of any frught and prinage aud other demands that may be due thereon giving hes recent to the mistei for the same provided always that in all cases it shall be lautul for the collector or other officer in chare of the custom house, with the consent of the master of the vessel, to cause any park iges to be brought on thore and to be deposted to the government warehouses for the securty of the duties and charges thereon, although twenty days may not have cxpired from the entry of such yessel, and in case any goods brought to fand from any sesuel be not clamed and cleared from the custom house withon thice months trom the dinte of entry of the shup in which such goods were mported, it shall be competent to the colk ctur to sell the same ou account of the dutics and other charges due thereon,
and the balance rematning after deducting the sard duthes and charges ghall be held in deposit, and pard to the owner on application

XLVI When a customs officer shall be sent on board of any veasel dischargng cargo, a further period of fifteen days, Sundays and boldays excluded, beyond the twenty days above specified shall be allowed for putting on board export cargo if the vessel shall aot exceed 600 tons burden, and twenty days if it exceed that burden

XLVII When upon application from the master of any vessel the customs otheer shall be removed from on board thereof, if the master of such vessel shall, before a cnstoms' officer have again been placed un such vessel, put on board of sach vessel or cause or suffer to be put on board of such vessel, any goods whatever such master sball be punished with a fine not exceeding 1000 rupees and the goods siall be liable to be relanded for examination at the expense of the shippers, upon requistion to that effect from the collector of customs

XLVIII Upon any goods hable to duty that may be passed through the customhouse for shopment, the application for which shall be presented after port clearance shall have been taken out, double of the prescribed duties shall in all cases be levred, and if the goods be free, or have already pard muport duty, or bave been anported free under certificate, five per cent upon the market value shall be levred thereon, or if the same be imported goods entutled to drawback, the drawback shall be forfetted, but no separate duty shall be levied on drawback goods

XLIX When a wessel having cleared out from any port shall put back from stress of weather, or it shall for any damage or from other cause, be necessary that the cargo of a vessel that has cleared out shall be unshipped or relanded, a customs officer shall be sent to take charge of the cargo dungg such relanding or removal from on board
L. When goorls shall be relanded before the lading of any vessel is complete, and before port clearance has been granted, the duty levied upon such goods shall be returned to the exporter, but no refund shall be made of duty paid on the export of any goods after port-clearance shall have been granted for the vessel on which the goods were exported, unless the vessel shall have put back for stress of weather, or for darnage, and the goods shall have been relauded

LI It shall be lawful for the said governor in council to eatsblish rules for the anchoring of the coasting and country craft of the British termithes, for the delivery of mantests of the cargo of such vessela, and for the landing of goods therefrom, and shappug of goods therena

Lil Pattamars, dhonles, botellos, and other small craft from the Maidive or Laceadive Islands, or from the natue ports of Kattywar Cutch, and Scrode shall be treated in the poris of the Bombay Presidency like the coasung craft of the Brash terctory, provided that they conform to such specral regulations as to the place of anchonang and mode of landung aud shipping goods as may be made by the governor in council of Bombay for such vessels in the several ports of the Bombay Presidency

LIII No drawback shall be aliowed on goods shupped on such uatue craft as are described to the last preceding section of this Act

LIV Goods exported in the same vessels, if manifested for re-export, thall mot be subject to import or export duty, and if any grods brought to any port in any yessel be transhipped in such port, they shall in all cases be subject to the satae duty as if they had been landed and passed through the custom house for reexportation in the yessel anto wheb they may be traushupped

LV No transhipment shall be made of any goods except under spectal order ta writrigy from the colleotor of customs of the port

LiI Every port subordnate to the Bombay Presidency, the port of Bombay excepted, ani anchorage fee shall be levied once at each port according to the burden on all country craft above the burden of ( 100 ) one hundred maunds, at the rates herenunder spectied


LVII In all cases in which under this Act groods are hable to confiscation, the collector of customs of the place where those goods may be shall be competent to adjudge such conliscation

LVIII If any person in clarge of a vessel shall have become liable to any fine on account of any act or omasion relating to customs, the collector of customs shall be competent, subject to the orders of the goveroor in council of the Presidency of Bombay, to refuse port clearance to such vessel until the fine shall be discharged

LIX It shall be lawful for any collector of customs, or ather officer who may be authorised to adjucicate custome cases, if he shall decede that a serzure of goods matle under the authority of this Act was vexatious and unnecessary, to adjudge damages to be paid to the propretor by the customs officer who made such vexatious seizure, besides ordering the mmediate release of the goods and if the proprietor accept such damages, no action shall thereafter he agaiast the officer of customs un any court of jastice on account of such seizure and if such adjudicating afficer shall decide that the seizure was warranted, but shall deem the penality of confiscation is unduly severe, at shall be howfol for ham to mitygate the same to the extent of the levy of double duty, and if the sald officer shall adjudge confiscation, it shall further be lawful for him to order that from the proceeds of the sale of the goods, a proportion not exceeding one balf shall be distributed in rewards amongst such offeers as he shall deem entutled thereto, and in such proportion as he masy drect to each respectively

LX All olficers of customs shall, as heretofore be amenable to the cwill courts of the Presidency or laland of Bombay, by action tor damages on account of any executive acts done in then offictal capacity, at the sum of the parties aujured by such acts grovided however, that no sunt shall he agangt a collector of customs or other officer for any jodicial award in a matter of customs passed under the preceding section of this Act

LXI Whoever nateationally obstructs any officer in the exercise of any powers given by this Act to such officer, shall be punshed with maprisobment for a term not exceeding six months or fine not exceeding 1000 rupees, or both

LYII Whoever, beang an oftreer appointed under the authority of this Act, shall accept or obtain, or attempt to obtatn from any person any property as a consideration for dong or forbearing to do any official act, shall be punshed with momrisonment for a term not exceedug two vears or fane, or both

LAIII Whoever, be:ng an officer appointed under the authority of this Act practises or attempts to practuse any fraud fur the purpose of ayuring the customs' revenue, or abets or connaves at any suth fraud, or at any attempt to prachse any such fraud, shall be pumshed with aphasonment for a teim uot exceeding two years, or fine or both

W\iV It ahall be lawful tor the governor in councll of Bombay, by an order ata tetinct to transler any of the powera given to a collector of customs by this Act to any other functionary and to make any rules cons stent with law for the carrying of this Act anto eifict and to estublish such bunders and appoint sucb officera as he shall think the mel to fix ratts ot wharlage and of tent to be pard for goods deposited or suffered to lit in the godowas of the custom house

Costoms' Thbtfr, Scuxddly A -Rates of Daty tò be charged on Goods Imported by Sea inta nny Port of the Preadency of Bombay


And if the collector of customs shall see reason to doubt whether the goods fable to a different rate of duty ascording to the place of their production, come from the country from which they are declared to come by the mporter, it shall be lawful for the collector of eustoms to call on the umporter to furnsh evidence as to the place of manu factura or production and if such eridence shall not satisfy the sadd collector of the
truth of the declaration, the goods shall be charged with the hughest rate of duty, subject alwavs to an appeal to the governor in councl at Bombay

And upon the re export by sea of goods imported, excepting optum and salt, and all gocds of the growt', production or manufacture of the contment of Indra, provided the reexport be made within two years of the date of import as per custom house register, and the goods be identified to the satisfaction of the collector of customs, there shall be retamed one eghth of the amount of daty laved, and tle remander shall be repaid as damback

But no exporter of imported goods shall be entuled to drawback unless the drawback be clamed at the time of re export, nor shail any payment be made of drawback unless the amount clamed be demanded withon one year from the date of entry of the goods for re-export in the custom bouse regtsters

Tanime, Schedule B -Rates of Duty to be charged an Goods Exported by Sea, from any Port or Place in the Prasidency of Bombay

| Number | SNOMREATIGNOFGOOS | Exporind on Britisil Bettums | Experted an Fureigu Buttome |
| :---: | :---: | :---: | :---: |
| 1 | Bulion a tal coin | frev | frecs |
| 2 | P ecroma stoota an I pearla | ditto | ditto |
| 3 | Books maps and dir tibin printed an India | diteg | diato |
| 4 | Haraes aud liv ph, atimal | d.stio | diten |
| 5 | Oprum corcred liy a pasa | ditito <br> Probibited | ditto |
| 7 | Cotion wool exported to Etrape the Uaited Statey of Imened ox any firitiak pose rasion ia Amorica | tree | 9 tanes peyr maund of Ef tolas to tha scer |
| 8 | Cutben wool exporte t to placed otber than aboye | 9 anolat per razond of B t tolas per ceer | tupcer d uabos per matiod of 80 tolns $t 0$ Ind aeer |
| 5 | Salc, bavag paid the enciee of 9 annas a monod | frest <br> rapee 8 antan per | frese. ruper 8 日bust per |
| 10 | Fubacep $\}$ | raped o andor per mathits of BO tolpor to the seer | ruper 8 gbust per muund of to tolas persect |
| 11 | [At] country articles Dot maumeratcd or named nbore, \|r |  |  |

And upon the re export to Europe, the United States of America or to any British possession in America, or from any other port un the Bombay Presidency, of cotion that has been imported under certificate of the payment of the duty specified no thas Schedule, provided that the re-export be made in British bottoms, withen two yerrs from the date 01 such certificate, and the amount be clamed withon one year from the date of reexpoit as per custom house registers, the whole amount of export duty levied at the first phace of export shail be refunded

## Fonm of Manifest, Schedele C

Manifest of Goods Imported pet Commander, from mider
Colours, vz -


N B - Articles generally to be specified, exceptug such as ironmongery, hardware, glassware, earthenware, cutlery, perfumery, confectionery, stathouery, and such Lhe

All articles from Great Brtan to be entered according to the Coglish weight, not natuve

From China, ma like manner in China werghts
In imports and exports of bullion or con, to specify the sort of which they consust.

## By Aet No XIX the Honourable the Presudent of the Counchl of Inda an Councul, on the 27th of August, 1838

I. It is enacted, that from the lst day of November, 1838, sections XX and XXI, Regulation XX of 1827, of the Bornba) Code be repealed

II From the said 1st day of November, 1838 , the following rules shall be in force with respect to vessels belonging to any of Her Majestys sutijecis residing withn the Presidency of Bombay, and employed on the coasts of the territories subject to the government of Bounbay, or in trading coastwise, as also with respect to fishing vessels and barbour craft belonging to any of the same her Malesty s subjects

III Every such vessel employed as aforesand, fishug vessel and harbour eraft, shall be marked or branded with the name of the place to which she belongs, and also with a number assigned for the sarme, by the officer authorised to make such registry as is heremafter mentioned, and the owner or owners of such vessel employed as aforesatd, fishing vessel and harbour craft, shall cause such name and number to be panted in black paint, upon a white ground on each quarter of such vessel employed as aforesaid, fishing vessel and harbour craft, in English Ggures and letters, each figure and letter being str unches im length

IV The name and number of every such vessel employed as aforesand eshng-vessel and harbour crafts and her burden, and also the name or names of the owner or owners thereof, shall be registered in a book to be kept for that purpose, by the person directed to make such regrstry

The owner or owners of such vessels employed as aforesard (fishong vessels and harbour craft being excepted), of being registered as aforesad, shall pay -

For each certsicate of regstry for a vessel not exceeding 20 Bombay catp-
dues burden the fee of
For each certulicate for a vessel exceeding 20 such candies' burden, and not exceeding 100 candies burden

1 Rupee
For eacla certriteate for a vessel exceeding 100 such candies purden and not excceding 400 caudies burdou

5 ,
And for each certificate for a vessel of 100 tons, or greater burden per ton

7 "
2 Annas

## Ey Act No XIII of the Horourable the Presndent of the Counctl of Indan an Councth, on the 20th of May, 1839

1 Itis enacted, that the several charges of the port and roadstead of Madras, lened under the heads of anchorage duty, lighthouse duty, regular boat-hare and report catamaran hire, sball, from and after the list day of August next, be consolidated and commuted into a port duty, to be levied at the rate of three annas per ton upon every vessel not berng a vessel saing mider the colours of a foreign European or American nation, of which the tonnage shall not exceed 700 tons by mensurement, made in the manner prescribed by Act $5 \& 6$ Whll IV c Ih, and if the vessel exceed 700 tons by measurement so made, the port duty shall be leved as upon that tonnage

II Upon every vessel sating under the colours of a foregn European or American nation that may anchor an the port of Madras, there shall be levied a consoldated port duty at the rate of three annas six ple per tou, according to measurement made ia the manner above prescribed

III If any vessels, Bitush, native, or foreign, anchoring in the port of Madras, shall not break bulk therem, and shall not reman four complute days from the tene of droppiog anchor, there shall be levied upon such vessels reduced daties as follows, that is to say, two fifthe of the tonnage duty prescribed above shall be levied upon every vessel which without breaking bulk shall, after anchoning therem, sall again out of the port
within forty-egght hours and see en-tenths upon every vebsel which without breaking buik shall stzy more thin forty-enght hours and less than four complete days

IV All powers and authorites, penalties, and other means whereby the payment of any of the charges of the port and roadstead of Madras may have been legally enforced before the passing of this Act, shall be apphable to the enforcing of the cousoledated and commated port dutses mposed by virtue of thas act
$V$ It shall be lawful for the government of India to order the consoldation and commutation of any port or harbour duties, as levied in any subordinate port of any presin dency into a tonnage duty, which shall be leviable at the rate and in the manner specified in the next followng section of this Act, upon the vessels anclioning in and trading with such port

VI When the Governor gencral of Indis in council shall direct the port duties to be commuted and consoldated at any port of the Madras Preadency other than that of Madras, or any subordinate port of any other presidency, the total amount lepred at such port shall not exceed one anna per ton for Bratsh and native vessels not exceeding 700 tons, and upon vessels exceeding that measurement at the rate for 700 tous, and upon foreign European axd American vessels, at the rate of one anna four pre per ton, and all vessels anchormg th any such cutports shall be charged with reduced duty, in the proportions above provided for the port of Madras, of they leave such port without breaking bulk before completing four eatire days from the tume of anchorng therein

VII The consolidated and commuted port duties above prescribed, when ordered to be leved in any port by the Governor-general of India in council, shall be levied by the officer appoited by the govenment of the presidency whin which the port ss stuate, to give port clearances or other custornary documents to vessels sating from such port, that is to say, by the master attendant or by the collector of customs at such port, as may be ordered by such government, and if such duties be not paid upon demand, it shall be competent to such oiticer to withbold from the versel on account of which payment may be refased auy port clearance or other customary document requred to be possessed by ships leaving such port untll the sarne shall be pard

ViI All the powers and authorites, penaltes, and other means by which any port or horbour duty of any subordmate port of any presidency which shall be consoldated and commuted by virtuc of this Act, may have been legally enforced before the consoludation and commatation thereof as herembefore provided shall be applicable to the enforcing of the consoldated and commuted duties at such port, imposed by virtue of this Act

## By Act Ao $X V$ of the Honourable the President of the Councal of Inda in Councl, on the 10 th of June, 1839

It is enacted, that if any person, on or after the day on which this Act will come into operdtion as hereinafter provided, lands, or attempts to land in any patt of the terriones subyect to the government of the presudency of Fort St George any foremg sugar, or any sugar wheh is the growth of any British possession into which foreign sugar can be legally imported, such sugar shall be selaed and confiscated by the collector of the customs, or by any other offeer thereunto authonsed by the governor in councll of the sand presidency Provided always that sugar which is the growth of any part of the presiducy of Fort Wilhans in Bengal into which foregn sugar, and sugar which is the frowh of any Britisb possession into which foremg sugar may be legally mported, are prohibited frombeng landed, may, during such prohbition, be landed in the sard territorles as herctofore

> Iu Aet Nu II, the Rught Honourable the Goternor General of Inda un Counchl, on the 7 th of June, $1 \Delta+1$

It is enacted that if am person after the passing of this act, lands or attempts to land, or shall introduce by land in any part of the territones subject to the 4 K 2
govemment of the Presidency of Tort William in Bengal, any rum or rum shrub which st the produce of any foremg country, or of any British possession into which foreggn eugar or rum can be legally mported, such rum or rum shrub shall be seized by the collector of the customs, or by any other officer authonsed to seize and detain contraband goods, and shall be brought to confiscation according to the rules marce for confiscating such goods, unless the district in whech such rum or rum shrub is landed or un which an attempt has been made to land such rum or rum shrub, be a district in which the Governor-general of India in councis has authorised the importation of such rum or rum shrub, and th shall be lawful for the Governor-general of India in council to authorise the mportation of such rum and rum shrub into any district of the teritones aforesaid by an order in the offictal Gazette

## By Act No X of the Rught Honourable the Governor-General of Indat in Councit, on the 5 th of $. \mathrm{It}_{\mathrm{t}} \mathrm{l}, 1841$

An Act for prescribing the rules to be observed, in order that ships or vessels belonging to ports within the terntories under the goverument of the East India Company, or belongug to native priseses or states, or therr subjects, may become entutled to the privileges of Britusb ships ander a proclamation of the Governor-general of India in council, made in pursuance of the statute 3 and 4 Victora, e 56
I Whereas, by a statute passed in the third and fourth years of her Majesty Queen Victoria, nutuled, "An Act to regulate the Trade of Ships buit and tradiog within the Fimits of the Eawi Indra Company's Charter"" it is enacted, "that it shall be lawful for the Governor general of India in council, by proclamation, to declare that all stups or vessels built or to be built within the limits of the charter of the East India Company, being owned by her Majesty's subjects for whom the said Governor general in council has power to legistate and belouging, under the regulations heranafter provided for, to any ports in the territories under the government of the said company, shall be deemed to be British ships for all the purposes of trade withn the satd limits, including the Cape of Good Hope and the terntones and dependenctes thereof, pronded that upon such declaration being made, the said Governor-general in council shall, and the said Governorgeneral in council is hereby accordingly empowered to make regulations, to be enforced by sutabie penaltics, concerning the registering, licensing, and ascertanmg the admeasurement of the tonasge and burden, and generally for the trading withan the hmats aforesad of such ships or vessels "And whereas it is further enacted in the same statute as follows, that is to say, "And whereas it may be expedient to adent to stmilar privileges and advantages any shaps or vessels belonging to nutive princes or states in subordinate alliance with, or having substiary treaties with the East India Company, or owned by subjects of any such princes or states, be at therefore enacted, that the Governorgeneral of Inda in council may by such regulations as aforesad such regulations bemg subject as aforesaid, admat to the provileges and advantages of Buitish sheps for the purposes of trade within the limits of the chatter of the said compans, meluding the Cape of Good Hope and the territories and dependencies thereof, or to any of such privileges and advantages, any ships or vessels belongug to such praces or states, or any of them, or owned by subjects of any such prinees or states but any such regulations shall provide for the granting to sueh ships or vessels fit and conventent hicenses or passes, and generally for the trading witho the limuts aforesud of such ships or vessels' And whereac, mpursuance of such enactments, it is expedient to frame sucb regulatipns as are mentioned therein, the complance whit which shall be required in order that shaps or vessels may be deemed British ships or be admutted to the prisleges and udvantages of Brask shyps, under such preclamation as aforesad

That no ship or vessel shall be deemed a Brtish ship under such proclamation as aforesud (except as regards ships or vessels registered betore the passing of this act or having a pass at the ume of pasang thereof), wnless the person or persons slaming property theren shall have caused the same to bave been registered at some one of the ports herenafter mentioned within the territones of the East India Compans, and shall have obtaned a certificnte of such regtatry from the person or persous authoused to make such regustry and graut such ceruficate

II That the ports at wheh registration shall be made shall be the ports of Calcutta, Madras, Bombay, Singapore, and such other places subordinate to the local governments of India, es such goverinments re>pectuvely may from time to tume declare to be registering ports under this act provided that shaps or vessels bult at any place other than any of such ports, shall be allowed to thake thetr first voyage to any of surh ports, beang the ports at which it is intended they shall be registered, under a certitcate to be granted by the principal Britsh officer at the place where the ship is built, or if there be no Brtish officer in authority there, then by three merchants of such place, whih certficate shall contain all the particulars with regard to the ownership and description of the ships or vessels contatned in a certicate of registry, and shall specify the ports at which it is intended that they shali respectuvely be regretered, and which cestuficate shall have all the effect of a certificate of registry under this act, durng the first voynge from the place of building to the ports at wheh the ships or vessels respectuvely shall be afterwards registered, provided that such ships or vessels so proceeding on their first vovage as aforesad, sball be deemed British ships only whist dealy prosecuting such first voyage for the purpose of registry and if they be not registered within a reasonable tume after ther arrival at the port of registry, the owner or owners, or master or other person heving or takigg the command or charge of such ship or vessel, shall be hable on information in any court of Her Majesty or the East India Company by the advocateggeneral of the respecture presidencies, to a penalty not exceedug 5000 ruprees

III That the persons authorised to make such regrstry, and to grant such certificates ns atoresaid, shall be the persons now authorised to make registry of ships or vessels under the statute 3 and 4 Wilinn IV c 55 and such other or different persons as the local governments may from time to time appoint for the ports under thear respective presidencies

Iv That at evert port where registry shall be made of purstance of this act, a book shail be hept by the registering officer in whicn all the paruculars contained in the form of the certificate of the registry shall be duly entered

The other provistons nt thas act are, as respects registr, measurement, certificates, 8 se , similar to those of 3 and 4 Wilham IV, e 55

## Proclamation

The Governor general of India in council hereby deelnees that all ships and vessels bualt or to be buitt withon the hmits of the charter of the East India Company (as thove lumts are defined by the statute 3rd and 4 th of Queen Victona, eap 56, inutuled, ' An Aut flither to regulate the Trade of Slups built and trading witho the Linuts of the Last Inda Company's Charter, ) being owned bv her Majestys sulyucts, for whom the sud Govenor generd in conncil has power to legislate, and belonging under the pro visions of the act passed by the Governor general in council, No Y of 184], to any ports in the territories under the government of the East India Company, shall be deemed to be Briwsh ships for all purposes of trade witho the sad limits, meluding the Cape of Guod IIope and the terntorios and dependenctes thereof

> fte No XIII of the Reght Homourable the Governor General of Inda en Counctl, on the 16 of August, 18t1,

Duclares and enacts that the impott duty on ume and sprits in casks shall be sether on the quantities registered at the time of importution, withost any deduction whatsouver proviled ahay that the keeper of crens warehoune adicated by Act No N1 of 1836 shal!, in accountug with the customs department for the prucle so warehoused, be nilowed ullage on suh whe and spatesat the wate of tan pur ceat for one vear, according to the time for whela stich wines and sprik shall have been fodged

## Act No XVIII of the Rught Fonourable the Governor Generalof Indax in Councul, on the 30 th of August, 1841

I Enacts that arms, ammumition, and miltary stores (with the exception of arms in the possession of individuals for private use) shall not be exported or otherwise taken from the territories of the East Indid Company without a license from a public afficer or officers for each presidency to be indicated by the goyernments of the respective presudencies, for the purpose of granting such licenges, and a full complance with all such rules and conditions as may be prescribed for the guidance of such officer or officers in regard to such exports by the aforesand governments respectively, and any arms, ammsnition, or mhitary stores which any person shall export, or attempt to export, or take as eforesatd, contrary to this act, shall thereby become forfeted, on the award of the officer or officers authorised as aforesad to grant tecenses, or the collector of eustoms, and every person offeoding in the premises contrary to this act shall be liable, on conviction before a magistrate, to a penalty not exceeding 500 rupees

II That any person who shall collect or keep in one place, or withen places not exceeding three aules in distance from each other, any quantify of guopowder exceedng fifty pounds, whthout a license from such officer as aforesand, shall be lable, on conFiction before a magistrate, to a penalty not exceeding 500 rupees, and such gunpowder shall become forietted on the award of the officer or officers authorised to grant heenses as aforesad, or the collector of customs

III Tbat it shall be lawful for any of the governments aforesard, to allow at any port or ports, the exportation of arma, ammunition, and milhtary stores, as aforesad, whout any such licease as aforesad, as they shall deem expedtent

## Act No XXIII of the Rughe Honourable the Governor-General of India wh Camcel, on the 11th of Octoler, 1841,

Enacts, that if any person after the passing of this Act, lands, or attempts to land, or shall introduce by land in any part of the territories subject to the government of the Presidency of Fort St George, in Madras, any rum or rum shrub which is the produce of any foregn country, or of any Britsh possession into which foreign sugar or rum can be legully mported, such rum or rum shrub shall be seized by the collector of the customs, or by any other officer authorised to sezze and detan contraband goods, and shall be brought to confiseation accordrog to the rules in force for confiscatiog such goods, unless the distriet in which such rum or rum shrub is landed, or matheh an attempt has been made to land such rum or rum shrub, be a diatrict in wheh the governor in councal has authoused the mportation of such rum or rum shrub, and it shall be lawiul for the gopernor in council to authorise the importation of such rum and rum shrub into any district of the terntories aforesand by an onder in the offical Gazette

## Act No IV , egulates the Management of Boats and Catamarans in the Madras Roads, and for the Amendment of cestasn Harbour Regulatons

## By Act No X1, of 1842 for Amending and Eaplannng the Lavo concernong the Importation of Forazn Sugar

It ss hereby enacted and declared that the prohbition and pealties contaned in Acts No XXXII of 1836 and No XV of 1839 aganst the landing or attempting to land in any part of the terntories subject to the Presidency of Fort Wifitam in Bengal or the Presitency of Fort St George of any foregu sugar, or any sugar which is the growth of any British possession mito which foretgn sugar can be legally mported, shall apply and be deemed to apply to such sugar otherwise muported into any part of the territones subject to the said presidenctes

# By Aet Nc XIT of the Right Honourable the Governor General of Indua monnenl on the 5th of Argust, 1843, ror reoulating the Levy of Customa' Duties, and the Manufacture of Salt th the North Weetern Promnces of the Pressdency of Bengal 

I It is enacted, that Regulation XVI, 1829, Act II, 1838, and so mueth of Reguluthon IX, $\mathbf{1 8 1 0}$ and ot any othei Regulation and Act as affects the collection of customs duties or the manufacture of salt in the North Western Provinces of the Presidency of Bengal shall be repealed from the 1st day of September, 1843

II That from and after the day above-mentioned the following and no other duties of customs shall be levrable upon the raport and export of articles into and from the North-N estern Provnces of the Presidency of Bengal, (that is to say)

On the moport of salt, of all descriptions, two rupees per maund, and a forther duty of one rupee per maund on the transmission thereof to the eastward of Allababad

On the mport of cotton, uncledned, four nanas per maund, cleaned, erght annas per thaund

On thic export of Misree, Kund, Cbenee, and all clayed and refined sugar, eight aunas permaund, Goor, Rab, Sheerah, and all unclayed and unrefined saccharine produce, three anmas per maund

The moport of sugar tato any part of the sad provinces is and shall reman probibited

III That it shall be lawful for the government of the sad provinces, from time to tume to make and issue such orders as may be deemed expedient for the collection of the aforesuld duties, in such manner and upon such line or lines, and at such places on or near such line or lines as may seem fit, and all such orders shall have the samu force as if they formed a part of this Act, from the date notified in the Gazette wherem they shall be published

IV That from and after the 1st day of September, 1843, the manufacture of almentary salt throughout the North-Western Provinces of the Presidency of Beogal, without the express sanction of the government, is probibited, and that any person engaging in the manufacture of such salt, or preparing or causing to be piepared works for the manufacture of such salt, without such sanction and all zemindars or ather propmetors of land, or ther agents, conming at such ilicit manufacture, shall, on convictoo by the magistrate, whin the bimis of whose district the offence roay have occurred, be punshed by a fine not exceeding 500 rupees, and on uon-payment of such fine by imprisonment not exceeding six monthe, with or without hard labour, and that all wurks at which such manufacture shall have been conducted, or which are designed for ruch manufacture, shall be destroyed, and any salt which may be manufactured or stored thereat, sball be sezzed and conthecated

V That it shall be lawful for the collectors of customs and the collectors of land revenue withen ther jurisdections, to destroy all works for the manufacture of salt, and to seize the salt stored thereat, and to apprehend the persons concerned in the manufacture thereof, and make them over for trial to the magistrate withn the limits of whose district the oflence may have occurred

The tores penalties, \&ow, are then enumerated in the Act.
XIV Nothing in this Act contaned shall apply or be deemed to apply to the Saugor and Nerbudda territones, or to the district of Aywere

By Act No $11 V$ of the Right Honozrable the Covernot Grneral of India in Councel, of the $23 r d$ of Notember 1843, for makiay the Provssons of 5 and 6 Vich, $e$ 47, Scet $A I$ appleable to Intia
Whereas doults have arsen as to whether so much of an Act passed in the 5 th and 6th yeara th the reign of Her Myest, Queen Victoua, matituled, "An Act to zond the Liws relatith to the Customs, as provides that from and after the 5 th day of January 1413, any articles of foregn manafacture, and ony packrges of such artucles anported anto the Unted hingdom or tute the Brimh possessions abrodd, bearing any
names, brands, or marks, purporting to be the names, brands, or marks, of manufacturers resident in the United Kingdom shall be forfented, is applicable to the territories subject to the government of the Enst India Company

It is hereby enacted, that from and after the 1st day of Mas 1844, any artucles of foreign manufacture, and any packages of such a ticles imported into the turntories sub ject to the government of the sadd Company, bermy my name, brands or marks, purporting to be the names, brands, or marks, of manufacturers resident in the Untled Kingdom, shall be forfeted

By Act No IT of the Right Honourable the Governor General of India in Commol, on the 16th of March, 1844, for abohshong the Lety of Transut or Inland Customs, Dutaes, for revastig the Dutres on Imports and Exports by Sea, and for determnang the Pree at whach Salt shall be sold for Home Consumption wuthat the Torrtornes sulyect to the Government of Fort St George
I It 18 enacted, that from the 1st day of Apry, 1844, such parts of Regulation X of 1803, Regulation I of 1812, Regulation ILI of 1812, Regutation VI of 1812, and Regulation III of 1821, of the Madras Code, and all such parts of any regulations of the said code as prescribe the levy of transit or minand customs' dutes at any town or place withon the lumits of the Presidency of Fort St George, shall be repealed

II That Regulation IX of 1803, with exception of sections 55 to 70, both melusue, Regulation XI 1803, Regulation XIV of 1808, Regulation XV of 1808, with exception of section 5 , Regulation II of 1812, with exception of sections 15 and 17, Repulation IV of 1812, and such parts of Regulation I of 1813, of the same code, as relate to the rates of duty and drawback on spirtuous liquors mported or exported by sea, also Regulation II of 1816, Regulaton II of 1818, Regulation III of 1818, Regulatoon IV of 1819, and Regutation VIl of 1819, together with the schedules appended thereunto, excepting in so far as any of these regulations rescind anv former regulations either in part or $n$ whole, of the Madras Code, and likewise the provistons of any kind contaned in the foregoing or any other regulations of the Madras Code, for fixing the amount of diuty to be levied on goods supported or exponted by sea, at anv place within she linuts of the Prestdency of Fort St George, or the drawback payable on the same, shall be repealed

III That nothag contamed in the two precediog sections of this Act shall be conatrued to prevent the lezy of any mumopal tax, or of any toll on any bradge, road canal, pate, or causeway, for reparr and mantenance of the same, or of any fee for the erectuon and maratenance of lyghthouses

IV That dutses shall be levied on goods amported by sea tuto the Prestenney of Fort St Gurge - (Sce Schedule )
v That certan duties are to be lepted on goods exported by sea from the Prestdency of Fort St George

VI That certath duties are to be levied on goods passing by land into or out of foreign European settlements, adjacent to the Presidency of Fort St George

VII The governor in connel may declare by notice in the Gazette, the territory of nauve chiefz, beyond the jurisdiction of the courts, to be forengu

VIII Custonis' chokees may be establushed tor the leyy of dutues on goods passing mato or out of foreign territory Powers of officers at such chokees Goods not to be allowed to pass across the frontier line whinut a cernificatc of the daty thereon having been pard un full

IX The governor in counct may appoint officers to collect duties and to grant certificates of pavments If goods be found not to correspond with certificate, the differcace to be noted on the face of the certuficate and if the duty have not been duly pard, the goods to be detamed untal a further certincate be produced
$\mathbf{\lambda}$ The appontments of officers to receve custome duties on the frontier to be notifed in the othetal Gazette Officers so appointed bound to grant certitates on receupe of the proper duty

YI Certificates not to bear date more than thinty days before the armal of the goods
YII The grovernor ta councl to nottly to official Gazette by what routes goods may cross the land frontier Aftes which, goods brought by other routes to be liable to detention or confiscation

XIII Goods crossing fromtie clandestinely to br confiscated
XIV Pearlty enacted for officer permithuy boods to cross the frontier without certificate or by prolabited route

YV Penalty for a chokee officer needlessly and vexathously injuung goods or wrougfull detaining them
4.VI Goods inported by sea from foreign Duropean aettlements or native states duclared foregan to be hatie to duties leviable on foretgn botoms

XV1[ No dutable goodsentered in etther of the schedules of this Act to be exempted, unless under special order of goverameat

WIII Uader proviso goods may be imported duty free from any uther Madras port

A $\lambda$ Credt may be given at any Madras port for duthes paid at any other Britsh Indian port

YX The governor in councl to notufy in the official Gazette, the valuation of arucles hable to ad zalorem duty

XXI When no value has been fixed or declared, duty to be levied according to the market valus

XYII Application to be made in writung for the passing of goods through the custem house

IVIII Declaration of market value to be subuntted to appraisug officer The collector of customs empowered to purchase undervalued goods at the price so declared

XYIV Gosernment to notuty in the officinl Gazette the ports for landing and shipang merchasdise Goods landing at other ports to be confiscated

YXY Mantcets of cargo to be sent in by mastere of vessels on arrival The governot in council may appoint places bejond which no inward-bound vessel may pass untul the zuater have fonnarded his manfist of eargo Excepting certan country craft

VII Penaly enacted for a master deliveriag a manafest not contaifing a full and true pectication of cargo

YYII Misters of inward bound vessels remating outside of the places fixud by the fovernor in council, required to deliver mamfests Pendity for the master of a vessel reficing to duncer mandest

SXYIII No vessel to break bulk untll the collector of custoras has recelved ship's papers

XIIX Goorls moved from or put on board of any vessel without due entry th the custom house or permesion for discharge of cargo, to be seized as contraband After cnery in diae form cargo not declared for re exportation may be landed, and export cargo bateri Guods hable to semure and confiseation if attempted to be landed or put on hoard in contrivention of this Act

XXX Penalty on master if cargo does not correspond with has mantest or if goods eent uut of the vessel be not landed at the prescribed places But allowed to amend obvous errars in manafests of eargo

AYII Oie or more places an every port to be qpponted for the landing and shipment of oods Goods landug at or shippag trom any other place whthout special per1H2sion to be coufiseated
thil The governor in councla may hicense boats for landing and shipping merchandise and ther notuication grods found on any other boata to bc liuble to confiscation esi ephing under special permet from the cullector of customs.

XXili Altu due notification by goverument, the collector of customs emponered to sivtion custinas officers on board of ans ressei

X XI Penalty enatid for the master of a veyod sefusiag to recene and accommodac such officet

XXXV Collector of customs may issue warrant to search any vessel, and a penalty for any master of a vessel ressisting officer whth warrant for search

XXXVI Penalty for a master remonng or putung on board goods between sunset and sumpise or when the custom house is closed, whthout leave trom collector

XXXVIS Ixport cargo boats without permits notaliowed to ite alongside rescels on whach customs officers are sthtioned Goods on such boate, if not cosered by a pass, to be lable to confiscat'on

XXXVIII In the removal of goods from on board any vessel, a boat-note to be seot wth each separate despitch Goods hable to confiscation of found without a boat note, or ont of the track between the vessel and the proper place of tanding

XXXIX Goods brought to be passed through the custom-house, if not correspmading with the descripion in the application, liable to confiscation
XL. Goods hable to confiscation if removed with traudulent matention after landing, and before passting through the custom-house

XLI Collector of customs may requre grods $m$ bulk to be werghed or measured before landing, and levy dutr acoordingly

XLII Resciads cap as $\mathbf{x y}$, of Reg 1, of 1805 of the Madras Code
XLIII Fixes the price to be pad for salt within the Presidency of Madras (suc Salt)

XLIV The governor-general in council empowered to grant a remisuon of this price
XLV Salt having paid the home consumption price may be landed free at any other Madras port under certucate

XLVI A hanted period to be allowed for discbarge of import eargo of vessel on which customs officer may be stationed

XINTI A lumed period to be allowed for dascharging cargo from any vessel without a customs officer on board, goods remaning on board after period allowed, to be landed and warehoused by order of collector Customs' collector, with consent of master of vesoel, may cause any packages to be deposited in the government warehoases. The coliecior empowered to selí goods if not cleared from cuta, n-house within period specified

XLVIII Linnted perrod to be allowed for putting export cargo on baard of any vessel
XLIX A petalty for puting goods on board a vessel after customs' oficers remonal therefrom, and before a customa' officer has agam been placed thereon

L A port clearance to be granted to the master of every vessel on certifcate of all public demands aganst hum having been satasfied

LI Rules to be given for levying duty on goods passed through custom house for shapment after grant of port-clearance

LII Cargo of vessels puttring back from strass of weather, or damage and compelled to re-land cargo, to be taken chaige of by customs officers, and lodged m such place as the collector may direct Penalty for a master putung back unto port without goods on whech dean back has been allowed
LIII. Duty on goods re-landed before the lading is contplete to be refunded, but not aften grabt of port clearance, unless the vessel have pur back for stress of weather or damage

LIV Penafty on coastug and country craft for contravening such rules as governur in council may lay doun for their regulation

LV Native ciafl to be treated like coasting ciaft of the Brotsh territorice
LVI No drawbach allowed on goods shopped on such native eraft
LVII Goocta re exported in the same vessel nat subject to daty, duty to be levied on translupped goode as 31 they had been landed and're exparted

LVIII Gouds to be habie to coafiscaten of transhipped whout specid licence from collector

LIX Customs' offeer to supermitend trasishapment
LX The collector competent to adjudge conficlations
LXI The collector may exact payment of haes betore grantag port clearance

LXII Einpowers colfectort of cucioms to deede upon cases of semure, and to adjuch, damages To mugate penaltu of confiscation to the extent of the leys of double dury and to distrbute part proceeds of sale of confscated goods ta rewards among seizing (foc.rs

L IIII III (ficers of customs amenable to cyll courts
I It Penalty tor obstructug customs oficers m the exercise of hetr powers
ItV Penily for customs oftcer receiving consideration for doing or forbearing any citheral act

LX I I Penalty for a custom offer concerned in defrauding the castoms revenue
LXI M Penalty for exactag customs or dutues wuthout authority as a custons officer
Lh 1 II The tovemer we comed may transfer the powers of collector of customs to amy wher officer and mas make rules und appoint otiticers to carry this Act into effect, and fix rates of wharfage and reat
Thaff, Scheduli A - Rates of Duty to be charged on Goods Imported by Sea iato any Port of the Presdency of Fort St George

| * omber | ENtMEMATIOVOEGOOM | When Imported on Dritivh fotioma | When Impirted an Furcigat Butt ms |
| :---: | :---: | :---: | :---: |
| 1 | Bull on mad evin <br> - Preci sulames and purde | Cree | ires ditio |
| 9 |  | Iftro | ditto. |
| 4 | Fuce ated paddy |  | aetr os alf itmported othervise than in bigy 9 emnas per maund |
| 4 |  | Tree | tree |
| 7 |  | ditto | 位to |
| 7 | (Wael colk brickn thatil wtonce marblo and wrought stone excepted) | $\}$ dinte | ditto |
| v | (B dik p miged in th Un ted Kimgdum af in any Britiata forst siou | \} atto | 3 per sent |
| $\boldsymbol{\theta}$ | Pratientinale | 3 pur cont | 6 per cent |
| 14 |  <br>  | \} 3 per cost | 6 pere cetat |
| 11 | Oster fitt the pr dice or matitacture of any ather place ar 0 mery | ) 0 per enth | 12 per cent. |
| 1 | It ral \& gbt r mospoughe th arodice ar mariziactare <br>  | 3 a per ennt | 6 per cent |
| 23 | AI Is ditto diti cxc it uy tan the pronuce ar monafic turc fa iy miter plac | \} 0 PBr cent | It yet ceat |
| 14 | Tin the [ raj eu of aby is r place thea the duted Keng <br>  | 10 par cent | 30 ptr cont |
| 1 |  | 2 per oent | 4 por cenit. |
| 10 | Oitt it o prodaca of at y other place or cauatry | 4 yet chat | 8 prreant |
| 1 | Cottol wn 1 tat eoremal lyy rertafiato of the payment of ceprit lety at wey oil it part of Eort ist Gearge | $\left\{\begin{array}{l} 0 \text { otina per mpund } \\ \text { of } 0 \\ \text { beter } \end{array}\right.$ | 1 mupes $\%$ annan per in und of 80 tolas in thes set, r |
| 1H |  <br>  tha | 3. pur ceat | 7 prr cent |
| 17 | burt the producte of suy otuar place | 7 frctab | 14 percent |
| ก | Ornum | 21 rep per ater of mi) tolsat | 4 rupces per neat of <br>  |
| 1 | suilt $\{$, | 9 rupetes per mannd of Ho twite te the teet | 3 rupecs per tha lad of H0 toling per mear |
| \% | 4satu | lijper the | ioy reent |
| 3 |  | 3 pr cent | Lis per cent |
| 14 | fotcl nac tomitd | 10 per cent | 49 per cent |
|  | \& nuplar | 10 purc at | y0 pmitrent |
|  | 180 | 10 pete estil | 0 juer ctit |
| 47 | it $e$ | 131 $r$ cent | zu perceint. |
| 4 | 1 Ifue | \&Pr ert | 1 pare ut |
| 1 | (t) TE! | 10 pera ot | 2015 eat |
| 319 |  | loper ote | 20¢5Tcrnt |
| 3 | ! DY t | pippect | 20 ju 4 |
| 17 | 11 - 11 | 73, rendet | 15 pur celt |
| t3 | 11 | 16 percat | 20 percese |
| 41 | 1 mbl |  | 4) pra coat |
| \$3 | it $\%$ ucaldids | 10, jur eut | of retat |
|  | - <br> Ati h ity onkplatitith ntraty it riase Ins. <br>  <br>  <br>  | J ste per in perme brilich | 1 rupe per imperial sailol |
| 37 | T be on At thenen wet inck led bo sha elvore enimi ration | 10 per cent <br> 5. percent | 20 per cowt 7 per ceat |

422

And if the collector of customs shall see reason to doubt whether the goods lable to a different rate of duty according to the place of ther production come from the country from whach they are declared to come by the mporter, it shall be lawful for the collector of customs to call on the mporter to furnish evidence as to the place of kaannfacture or production, and if such evidence shall not satisfy the satd collector of the truth of the declaration, the goods shall be charged with the highest rate of duty, subject always to an appeal to the governor in councl of Fort St. George

And upon the te export by sea of goods imported, excepting opium and salt, and afl goods of the growth, production, or manufacture of the contunent of India, provided the re export be made whinn two years of the date of mport as pei custom-house regrscer, and the goods be tdentufied to the satisfaction of the coliector of customs there shall be setamed one erghth of the amount of duyy levied, and the remander slaill be repaid as drawback

But no exporter of imported goods shall be entitled to drawback, unless the drawback be clamed at the time of re-expors, nor shall any payment be made of drawback undess the amount clamed be demanded within one year from the dute of entry of the goods for re-export in the custom house register

Tampf, Scubpule B-Ratrs of Duty to be charged on Goods Exported by Sea from any Port or Place in the Presidency of Fort bt George


And upon the re export to Europe, the United States of America, or to any British pos:ession in Amenca, from Madras, or from any other port of the Presidency of Fort St George, of cotton that has been umported under certificate of the payment of the duty specifed in this schedule, piovided that the re-export be made in Butish botions, within two years from the date of such certificate, and the amount be clamed withon one zear from the date of re export as per custom-house regrsters, the ahole amount of export duty levied at the first place of export shali be refinded


AB tructusgeneraliy to be specithed, evcepung such as ir nmongery, harduare, glash ware earthonare cutlert, perfumerv confectioncry, stationery and cuch hike All arucles from Great Brtin to be entered according to the English weight, not native

From Chma in like manoer in Cbina weights
In mports or exports of bullion or coin, to specify the sort of which they conast
Act Vo XV of the Governor-Gencral of India za Council, on the 6th of July, 1844, tor amending the Schedules of Import Dutzes annexed to Act XIV of 1836, to Act $I$ of 1838 and to Aut VI of 1844
Wheress by Article XVII of Schedule A annexed to Act No XIV of 1836, by Article AVIII of Schedule A annexed to Act No 1 of 1838, and by Artele XIX of Schedule $A$ anmexed to Act No VI of 1844 certan rates of duty are to be charged on the importation tuto the ports of Bengal and Oressa, and the parts subject to the presulenctes of bombay and Madras of cotton and silh prece goolv, the produce of any plact other than the Unted Kuidom or any British possession and whereav it is expedicat that the same rates of duties should be chorged on other foresgn goods of a hike descriptiun

It is heich enacted that from and after the lst day of January, 1840 the rates of duty presentied for the sand articles by the sand schedules shall be chatged on the mportuinn bito the ports of Bengal and Orissa, and the purta subject to the presideneles of Madias and Bombap of all manufactures of silk or cotion aod of silh and cotton mined wh min othen materal whichare the produce of any place other than the Unted Kingdom or any Bretsh possession, and of ali toreign made up articles of the satd mavu$f_{1}$ ctures of of which any part of the matertuls is of the hand manufactures

Act No $11 I$ of the Gomernor-Gineral of Indka ta Councal, on the 27th of Juty, 1844 for increasing the Ficise and Import Dutuss heretaotore payable to the Government on Salt manyfactured uathin or mported anto the Terriortes subyect to the Government of the Prestdency of Bombay
Whereas by 4et VI of 1844, all mland, transt, and town duties levied on behalf of the _overnment of the East Indid Company withu the limits of the teratories subordinate to the Presidency of Fort St George vere atolished, and the impost on sult manufactured and sold whth the sabd te ritores was rased to a rate more unaccordance with the tax on the same article borne by other duswons of the Briash possessions and whereas althougb mquaries which have been metututed ts to the orgga and catent of certun town dutpes and local cesses whin the Presidency of Bombay, with a vew to therr ibohitin, lisie not vet been completad it is nevertheless expedrent, in order to equalise the asemge pores of salt whin the Presidencies of Tort St George and Bombay to merease wo well the cu toms dury on umported silt as the excme duy heretofore iond at present payable on salt that may be dilvered from any satt work withon the ternterifs sulject to the government of the Prestdency of Bombay

I It is hereby enacted, that from the lst day of September, 1844, Secuon I of Act XXVII of 1837 shill be repeated

11 Aad it ; hereby enacted, that from the 1st day of September, 1844 there shall be pad to the goverument on every maund of 3200 tolas' weight of salt that may be
dehvered from auy salt-work withe the terrtornes subject to the goi erament of the Presidency of Bombay a duty of one Companys rupee

111 And it is hereby enacted, that section 43 of Act I of 1838 , shall be repealed
IV And it is hereby enacted, that on application by the exporter from any port of the Presidency of Bombay of any salt that has pard the excse dutv fixed by Section IL. of this Act a cerufieate shall be granted by the collector of cuctoms at the place of export, under authonty of which certificate the quantity of salt specified theren shail be landed at any other port of the sad Presidency of Bambay, and shall be passed from such port into the interior, under cover of the passes applicable to the free paseage of salt without the levy of any further duty ether of excise or customs
$V$ And it is hereby enacted, that so much of Sehedule A appended to Aet $I$ of 1838 as provides that on salt imported by gea noto any port of the Presidency of Bombay and not covered by a pass, there shall be levied a duty of eight annms per maund of eughty tolas per seer and so much of Schedule B appended to Act I of 1838 as provides that salt having pad the excise duty of eight annas a maund shall be permuted to be exported free of duty from any port or place in the Prestdency of Bombay, shall be repealed

VI And at is hereby earacted, that on salt imported by sea moto any port of the Presidency of Bonbav, and not covered by a pasa, there shall be levied a duty of one Company s rupee per maund of 3200 tolas' weight, and that salt having patd the excose dutv of one Company s rupee per maund shall be permitted to be exported free from further duty from any port of the Presidency of Bombay

Act No IX of the Goverror-General of Indra in Counch, on the 17th of May, 1845, for amendang the Schedules of Import Dukes unncxed to Act XIV of 1836, to Act I of 1838, and to Act VI of 1844, and for repealing Act $3 V$ of 1844

I It is hereby enacted, that from and after the 1st day of June, 1845, so much of Schedule A annexed to Act XIV of 1836, so much of Schedule A annexed to Act I of 1838, and so much of Schedute A aunexed to Act VI of 1844, as relates to the rates of duty to be charged on the goods next heremafter spectied be repealed

Marine stores, the protuce or manufacture of the Unted Kaggdom or of any British possession
Marine stores, the produce of ny other place or country
Metals wrought ou unwrought, the produce or maufacture of the Uated Kingdom or of any Brinsh possession
Metals wrought or unwrought, exceptug 2n, the produce or manufacture of any other place
Woollens, the produce or manufacture of the Unated Kingdom or of any British possessien
Wooliens, the produce of any other place or country
Collon and silk piere goods, cotton twist and varn, the proluce of the United Kingdom or of any Brush posaession
Cotton and sils prece goods, cotion twist and yarn, the produce of any other place
Wines and haqueurs
Spints
All manufactured aitcles, not included in the enumeration contamed in the sad schedules
II And it is hereby emacted, that from and after the said 1 st day of $\mathbf{3}$ ane, 1845 all the provisions of tie three above mentioned Acts whech have reference to so much of the Schedules A to those Acts respectively annexed as is repeated by thr Act, shall from and after the sald day be taken to have reference to the sehedule annexed to this Act, os if the sehedule annexed to thas Act had been part of ench of the Schedules A, above-mentoned

III And it is hereby enacted, that Act XV of 1814, motuled, "An Act for amending the Sthedites of Import Duties annexed to Act XIV of 1836, to Act 1 of 1858, and to Act VI of 1844, be repealed

Tibiff cicmpdetf-Ritfs of Duty to be churged on the following Goods Imported by Sen rato any Port of the Piebideuctes of I ort Willan in Bengal, Bombay, or Fort St Georet ${ }^{\text {t }}$

| ENVMERITION OF (DOPS | When imp ried ou Brituh A toxam | When imported an 1 or ign Ratioms |
| :---: | :---: | :---: |
|  <br>  |  |  |
|  <br>  | 3 per ecot | 10 per ceat |
| intry | 10 per ceat | 20 per ceot |
|  <br>  |  |  |
|  | 10 P \% equt | yep par ceath |
| II liens ko produce $r$ manaiocturc of the kated Kugdome or ol by liritioti paske of u | 5 f or cent | 10 p r ceat |
| Wu 1 ins the prodthes at iny therpla e of osuptry | 10 pet dink. | 20 pus cent |
|  a pe chriad twint an dote or of entron or aitk mixed with bis ot ; mixtethal the produce of the United hingdom or of |  |  |
|  | * por ceat | 11 per ceat |
| Ditt it a ofs, ut any onle r place | 30 per orint | wo pet atat |
|  - if as Brotial peredesaro | 31 per ecat |  |
| prite the $P$ oluce of of is the $r$ pluce | 7 pere at | if per cent |
| If ret ele if ker ond oib mataular Eermated luquat | 5 por ceat | topretent |
|  | 1 trapce per jup sallon |  |
| St to | - ruper nad a miman per amperisel gatlen | rup eaper amp yall |
|  excesd boudon pre i an ifhuv has reed in borlie bre quart <br>  |  |  |
| All manula tur i art ol a tuarlud o it elier alas a ensmeration | 5 per cent | an prer eent |

## A Regulatun relateng to the Thade of 「orengn Shups with Indta

Whereas a regulntion was made and passed by the Court of Directors of the Eist Inda Company and transmitted to Indta by a despatch, dated the 28 th day of July, 1897, and pronulgated by the supreme government on the 29th day of Deetmber, 1837, for lesuradug and re enactung with modifications, certann prossions contamed in a regula LIon mide and pussed by the sand Court of Directors on the 12th of August, 1829 for regulating the trade of forergn nations with the ports and seulements of the Britsh nation on the East Indies and whereas doubts have arisen th to the true iatcat and meaning of certan parta of such regulation, and it is expedient that such doubts should be removed the Court of Directors of the sand Company by vrtue of the powers granted to them by the Act pa sed in the 37 th vear of the regen of hes late Majesty H ng george the Fhard, metukd Ao Act for regulating the Tiade to be carred on with the British Pos, essions in Indis by the bhips of Nations in Amby with His Majesty, liave resonded the whole of the sad regulation and in heu thereot have iramed tbe following rugulation

Furesgnslaps belonaing to any state or country in Europe, of in Amenta so long as such states or countries respectuvely remain in amtty with her Majesty, may freely enter the British sea ports and barbours in the Cast Indee, whether they come directly from therr own country or from any other place, ind shall be there hospatably recencd, and shalt have liberty to trade there in imports and exports conformably to the regulations established or to be est tblished in such sea-ports, provided that it shall not be lawful for the sad ships to recerve goods on board at one Brittsb port of Inda to be conveved to auotl er Butish port of India, on freggit or otherwise, but, neverthelese, the original inward cargocs of such ships may be discherged at different Bratist ports and the outward eargess of such ships may be laden at different Britsh ports for the ir forefgn destinations, and proveled further that it chall not be lawtul tor the said ships in tome of war between the bratsh gocrament and any state on poner whatsoetci, to expont from the sand Brithh terntories without the sptcial permasson of the Brtinh governanent, may naval or mahtary store saltpetie, or gratu

Fort Whllam, Geneval Departisent, 30ek of November, 1836
The Rught Honourable the Governor-General of Indua in Council, under the powers conferred upon him by the 3rd section of the Act 6 \& 7 Will IV c 27, is pleased to appoint and durect that th shall be lawfil to mport moto any of the distrets prownces, and places herenunder mentioned, forengn sugar, or sugar the grouth of any Brith possessions into which foregn sugar can be legally raported, and to except the sume from the operation of the prohibition contarned in the sadd clause of the said Act, viz -

1 The settiements of Stngapore, Malacca, and Prince of Wales Island, and therr respective dependencres

2 The settlements of the Tenasserum coast
3 The prownce of Arracan, with its dependencies the islands of Rumree and Cheduba

By order of the Redht Honourable the Governor-Geaerat of Iadia in Council
(Signed)
H T Prinsep,
Secretary to Government.
Fort Wilham, Home Department, Scparate Revenue, lat of March, 1845
The Itght Honourable the Governor General in Council is pleased to direct the publication of the followng resolution -

Resolutron -The Rught Ionourable the Governor General in Council is pleased to resolve, that so much of the resolution of the government of India, dated the 30 th of November, 1836 as excepted the settement of Prnce of Wales Island and Province Wellesley from the operaton of the prohibition contatined in the 3rd sectuon of the Act 6 \& 7 Will IV e 26 and made it lawful to import theretn toregn sugar, or sugar the grouth of any Bntish possessions into wheh furegn sugar can be legally mponted, be cancelled, and the permussion thereby ghen to umport such sugars into the aettlement of Priace of Wales Istand and Provace Wellesley, is accordingly hereby rescinded

## Fort Wruham, General Department, 14th of June, 1837

Under the nuthonty conveyed to the Govemor General of Indm in Councll by Act No XIV of 1837, it is hereby directed, that goods mported into Calcatta, in the vessels of any of the states and terntories beremuader menuoned, in which British vessels are recelved and treated on terms as favourable as nattve vessels, and likewise goods exported from the port of Callenta in the yessels of such states and terntories, shall be treated and dealt with in all respects as goods umported and exported in bratsh botoms

1 Ihe ports of Arabia and ot the Persian Gulf,
2 Ports in the Red sea belonging to the ruter of Egypt, and
3 The dommons of the King of Ava.
Fort Wilham, Separate Department, 9 th of January, 1839
Under the authorty conveyed to the Governor General of India in Council by Act No XIV of 1837 it is hereby directed, that goods imported into the several ports of the Prestdency of Bombay, in the wessels of any of the states and territortes herenunder mentioned to whrb Brtush vessels are recetved and treated on terms as favourahle as native vessels, and likewise grods exported from the ports of Boablay the the vessels of such states and territories shatl be treated and dealt wilh in all respects as goods imported and exported in British bottoms

1 The ports of Axabia and of the Pergran Gulf,
2 Ports an the Red Sea belonging to the ruler of Egypt, and
3 The domaions of the King of Ava

## Notificition

The Right Jicnourable the Goicrnor of Bengal with the concurrence of the Supreme Government of Inda has been pleased to determane that from and after the 1 lith of November 1 | 14 |
| :--- | , the rate of duty to be charged on salt mported by sea anto any part of the Preswency of Fort Witham in Bengal shall be three Companys rupees on every maund of 3200 tolas

Crom and after the same date, the whole of the salt in store at the diffeient depats, will be available to the public at the following wholesale prices

| Nome of Dendt. | Priee per 100 Maniada | Natred of Dopet | Priea pur 100 Hoveds |
| :---: | :---: | :---: | :---: |
|  | ruptes. | Cbrtagang - <br> Sudd it hat and Doompleath | 7apoed 387 |
|  | 275 | A rakan mais | 3182 |
| KL \& + 1 itrect | 370 | Splten - |  |
| I rropyk a | 740 | Cathek | 413 |
|  | 36 | E! nordoh | 419 |
| Timl k |  | 15 farorc | 418 |
| A raspar $r$ | 285 | Cbulka | 424 |
| Wreaty in Pergunah Neraiopeor | 395 | Modras Enyknteh $\left\{\begin{array}{l}\text { lat } \\ \text { 2nd } \\ \text { quatity } \\ \text { ditte }\end{array}\right.$ | 305 |
|  |  | (i)d ditio * | 360 |

The qovernment reserves to uself the power of re imposing the full amount of duty authonsed by lan, should corcumstances arise to render such a measure necessary but no alteration whateve, will be made ether in the duty now fixed on mported salt, or an the prices to be pard for salt sold by wholesale on account of government before the lst of August 1840

Collectors of the land revenue and all officers of the gorernment in fiscal charge of districts, are hereby directed to make known the substance of this notification as widely as possible throughout then several jursdictions

The Board ot Customs Sdit, and Opium, will issue the necessiry instructions to therr subordinates in the salt and customs departracats

## Notification

The Government of Indra having directed, with reference to a despatch from the Honourable the Court of Directore, dited the 3rd of July last, that the excise and mimort duty payable ander Act XII of 1844 on alt manufactured withn or amported into the territories subject to the government of the Presidency of Bombay, shall be reduced from one rupee to twelve annos per maund of 3200 tolas the Honourable the Governor in Council is pleased to notify that the sad excise and import duty is hereby reduced accordinglv
bomby Casile, 14th of September, 1844

## To the Board of Customs, Sult, and Opum, dated the 12h of June, 1843

Gentlemen,
1 am directed by the Honourable the Deputy-Governor of Deagal to transmut to wu the annered extract (paragraphs 3 and 4) of a despatch from the Honourable the Court of Duectors, dited the 6 th of April, 1843, No 2, and to request that your Board whit be pleased to sssue the neces ary orders for discontinuing the collection of the duty charged upon tex, the manuldature of thes country, and exported on British bentoms to the Unted hingdom

Frit Wilhm
12 h of Junc, 1813

1 have, \&c,
(Signed)
Inder secretars to the Government of Bengal

## Extract from a Letter from the Honourable the Court of Darectors, dated the 5 ith of April, 1843, No 2

Paragraph 3 It has been represented to us, that the three per cent export duty levied on the Assam tea at Calcutta operates as a hardship

4 We are of opinson, that for the present at least, the levging of this duty might be discontmued, and we accordiagty authonse you on the recejpt of this despateh, to give the necessary directions for discontinuting the collection of the rates charged upoa tea, the manufacture of the country, and exported on British botoms to the United Kingdom

Fort Wilham Home Department, 28 th af June, 1845

## Notifecation

The Right Honourable the Governor general of India in Council deermang it rigbt that every encouragement should be given to the importation of machinery into Indra, both for the mprovement of the communcations and for the development of the commercial resources of the country, is pleased to resolve that machnery and plate aron prepared for the hulls of steamers be from this date, exempt from the paymeat of duties of customs on importation into the territories of the East India Company, until further notuce

## Fort St George, 27th of June, 1844

Under the decision of IIer Majestys Goverament, communicated to this government by the Hononrable the Court of Drectors, the Most Nable the Gavernor in Counchl is pleased to declare, that the produce of Mysore will be treated in the United kugdom and in India as that of British possession, and he accordingly drects that all orders which have been issued for prohntitng the admisson of sugar, the produce of the Mysore teratories, into the provinces of this preandency, be withdrawn

## Fort Willam Separate Department (Customs), 17th of November, 1842

## Notification

The following forms are preseribed to be in force and effect froru and after the lst of January, 1843, for the export of cotion or cotion wool free of duty to the United King. dom, from any port of the Cast Inda Company s possessions in Inda, indrectly through a port of Ceylon

Under deelaration by an exporter of cotton from any port of British Iodia in a ship or vessel bound to a warehousng port of Ceyion, that the cotton is there intended to be re-shipped for the United Kingdom, the amount of dutv leviable thereupon under any law to force at the place of exportation, shall be taken in bond signed by known householders of such place of export, the condtion of which bonds shall be, that the amount of duty shall be paid in full at the end of six months from the date, unless there shall be produced a certuticate from the custons collector of the port of Ceylon, to wheh the vessel is bound, declaring the cotton so exported to have been shupped for Great Britan, or for some port of Europe in a Brush ship, of which the name and captams name thall be stated

And such certuficate siall be writen by the Ceylon collector of customs on the face of a pass-note to be given to the first exposter by the collector of customs at the Indan port of export, which pass note shall describe the artucle and its mode of packing, marks, and numbers, and sball state the quanaty and qualny, and the name of the shipper and consignee of the goods, and the certufate of re export to the Unted Kungdom shall conian a declaration of the vdentity of the arucle re exported with that described in the pass-note

## COMMERCIAL REGLLATIONS OF CALCUTTA

Cafcotra, the capital of Butish Inda, is situated on the eastern banks of the Hooghly, latitude 22 deg 34 mmn 48 sec N , longitude 88 deg 27 min 18 sec E The ctty and suburbs extend along the banks for about five mules and, from the water, the appearance, though low, is mposing, and the approach upwards is rendered interesting by villas and other residences The ctty is about 100 males distant from the sea, and fron the Sandheads a most intricate navgation commences among the banks of shifting sand and mud The population is variously estimated, by some as high as nearly one mulhon, a most gross exaggeration It is very convemently situated for internal trade, by the Ganges and its tnbutary nvers and streams, to the north-west pronnces Dhamond Harbour, about thurt miles below Calcutta, and also on the east side of the Hooghly, has a sufficient draught of water for the largest ships Vessels of 600 tons anchor close to the Strand road, or Esplanade promenade of Calcutta

Thas city was in 1717, a stragging village of less than twenty huts, it has now for some thme been named a city of palaces, and is divided anto streets crossing each other at right angles, with handsome squares each having in the centre an open tank or reservoir of the Ganges water, with sloping banks planted whth eicrgreens, \&c The residence of the governors general was con structed under the administration of the Marquis Wellesley, and is described as of umposing magnaicence

Fort Willam was commenced by Lord Clive, after the battle of Plassy, and is sud to have cost the East India Company about $2,000,000$ l stering it is situated close to the river, a bette below the city, and on a level with the surroundng flat country It is the strongest and most regular fortress in Indaa The form is octagon, five sides being regular, and the three next the nver adapted to the crrcumstances of defence The nver flows close to the glacis, the citadel mith its large salient angle, effectually commands the approaches Altogether, even Yaubon could not have designed a more foumdable stronghold, with its dhes, trenches, and outn orks, though from the lowness of its site, its appe irance has nothing induative of strength

In 1822, the popolation of the etty proper of Calcutta was stated to be 13,148 Chistaans, 48,162 Mahomidans, 118,208 IIndoos, 414 Chnese, total 179,917 In 1837, the whole amounted to 229,700 mhabitants, meluding Erastians, of the children of white fathere and natwe mothers It is remarkable that there were at that tume as many Portuguese as English, viz, 1715 male, and 1475 female Porturiese, total 3190, and 1903 male, and 1186 female Englsh, total 3138 Englush The population of the suburbs live chiefly m luts

The principal merchants are British, Portuguese (the latter chielly born in India), and a few other Europeans Parsees, Hundoos, Mahomedans, Armentans, Who have greatly mereased, and several Jews The Screor and Baboo brokers are chrefly, if not all, Hindoos The press of Calcutta publish periodicals, almanacs, regsters, newspapers, \&c

## distances from calcutta in british miles to the following PLACES

| Adoni, S W | 1080 | Cashmere (conptal of) |  | Madess S W | 1097 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Agra, W N W | 796 | N W | 1584 | Madura S W | 1360 |
| Ajmere W N W | 1035 | Cuttack S W | 251 | Mangalore | 1385 |
| Allahabad, W N W | 498 | Cawapore, \% ${ }^{\text {W }}$ W | 628 | Masulıpatam, S W | 797 |
| Allyghur | 816 | Chutterpour W N W | 686 | Mıdnapore W | 69 |
| Almoral? | 898 | Chettor, W N W | 1070 | Mirzapore, ${ }^{\text {N }} W$ | 455 |
| Ausedabad, W | 121 | Chitagong E | 348 | Manghyr, N W | 364 |
| Amednuggar, W | 1033 | Chitledroog | 1175 | Moorshedabad N | 118 |
| Anjungo, S $\mathbf{W}^{\text {a }}$ | 1577 | Chinar WN W | 432 | Muttra, W N W | 818 |
| Arracan, SE | 5519 | Chicacole, S W | 498 | Mysare S W | 1246 |
| Arcot, S W | 1085 | Codhn | 1441 | Nrgpour ${ }^{\text {S }}$ | 077 |
| Ava E | 1150 | Comorn Cape S W | 1770 | Napaal N N W | 560 |
| Aurungabad, W | 968 | Coral, W N W | 655 | Natwah W N W | 817 |
| Azinghur | 475 | Cuduaps | 1007 | Nusseerabad | 1018 |
| Backergunge | 183 | Dacca, N E | 187 | Ootacamund | 1949 |
| Bahar N W | 297 | Dhatwar | 299 | Ongole S W | 878 |
| Batool | 780 | Deesa | 1300 | Oude, N W | 562 |
| Balasore, S W | 145 | Delht N W | 900 | Patpa, N W | 369 |
| Bancoora | 101 | Dinagepare N | 259 | Pondicherry S W | 1157 |
| Banda | 618 | Dragpore N W | 376 | Poonah WS W | 1107 |
| Bangalore | 1161 | Elhchposir W | 796 | Purneah, N | 282 |
| Pauleah | 145 | Ellore S W | 748 | Rajahmundry SW | 690 |
| Barelly, W N W | 782 | Etamah W N W | 719 | Ramghat, N W | 879 |
| Barrackpore | 16 | Ferozepore | 1161 | Ruttumpour, W | 493 |
| Basseen, W | 221 | Futteghar N W | 711 | Solem | 1021 |
| Beder W N W | 980 | Puttypore | 580 | Samulcotta | 664 |
| Bednore N W | 1290 | Canjara 8 W | 382 | Sangur W | 742 |
| Beerblicom N W | 127 | Ghazeepore, N W | 481 | Sattarah, S S W | 1180 |
| Bellary | 1090 | Goa, WS W | 1859 | Seetapore | 671 |
| Bemares W N W | 428 | Goiconds S W | 907 | Seringapatam, S W | 1236 |
| Bhoos | 1324 | Gorruckpore | 325 | Sholapore | 1162 |
| Bijnore | 905 | Cuntoor | 807 | Siady, or Tata W | 1602 |
| Risnagur, S W | 1119 | Gtrahor, W N W | 782 | Sirong W | 849 |
| Broach $\mathbf{W}$ | 1228 | Hiansee | 995 | Sumbalpour wS W | 309 |
| Boglepore ${ }^{\text {N W W }}$ | 268 | Hussingabad Ghaut, W | 864 | Surat, W | 1298 |
| Eombay W | 1180 | Hydrabad W S W | 972 | Sylhet N E | 382 |
| Bhopal, W | 848 | Indore $W$ | 976 | Yamjore, S W | 12.7 |
| Burdman | 75 | Jeypore, W N W | 97. | 1 sunah | 1198 |
| Buxar N W | 446 | Jaulnah | 932 | Tellucherry | 1367 |
| Cabui N W | 1815 | Juanpore | 466 | Thelanopoly, S W | 1254 |
| Calberga W S W | 1018 | Jumulpore | 301 | Veliore | 1100 |
| Cuingapatam $\mathrm{S} W$ | 480 | kaira | 1204 | Yiogorla | 1370 |
| Calpee $W$ N W | 657 | Lahore N W | 1350 | Vragapatara S W | 557 |
| Cambay W | 1253 | Lassa, ${ }^{\text {N NE }}$ | 800 | Vixiapon W S W | 1183 |
| Candahar N W | 2047 | Luchoow, N W | 640 | Vellore | 1160 |
| Canoge, $\mathbf{W}$ N ${ }^{\text {W }}$ | 824 |  |  |  |  |

## AONEYS, WEIGHTS, AND MEASURES

Accovars throuriout Bengal are kupt in Companys rupees to which standard all current specie must ba redaced for entries in merchants books, or paymenta to the government departmenas

Tabers of Money
4 Cownies 20 Gundas
${ }^{5}$ Punns or 12 pice
The brst three denomations the natives

100000 Rs are a lac and 100 lacs or 10000000 Rs a crore
Weichts - Beandes the standard, or new bezar weights ot Britsh India, the following are also in use, viz -

## Pactony Weitats

5 tolas $=1$ clatak = 1 oz 192 dr 16 cluth $=1$ seer $=11 \mathrm{bb} 18$ oz 14 dr 40 seers $=1$ maund $=74 \mathrm{lb} 10 \mathrm{oz} 107 \mathrm{dr}$

1 Guoda 16 Annas
1 Pumn 16 Cos $\}$
1 Anna 15 Sicen $\}$ rupees

1 Co s rapee
1 gold mohur

For equalising the value of faxtory and standard werghts -
Deduct one-eleventh from the weight in factory matinds, seers and elintaks, and the result will be the weight un new bazar maunds seers and chittaks

Add 10 per cent to thi price perf factory maund, se \&e and the result will be the price per Brtish India or bazar maund se \&c

In Calcuta some articles are quoted at Conpany $\boldsymbol{\text { anpecs per maund" others at } ' \text { sucoa rapees }}$ per bigzar maund others at meca rupecs per faciory mannd" ind others again at current rupees per factory mand" the current rupe bemg an maginary moncy of which 110 are assumed equal to 100 sicca The same artule is often estumated in a dafferent seale from different places thus, Radoagote and Bauleah silk are sold per bazar secr white Kasimbaznr und Gonatea alk per factory seet Tin iron verduris Japan and English copper per sicen rupees and factory unand *teel 2 ine lead mercury and South American copper per current rupees and factory maund Gumbenjoman is sold by factory 111 other gums by bazar weight steck lac by the former but shell lac and lac dye by the latter Saltpetre indigo silk the produce of the Strants and metals are the principal artules sold by the factory maund whule gram sugar, most articles of food, and all of retail bazar consumption are sold by the bazar weight

Weiouts and Measures of India compared with those of Avoirdupois Bengal Cactory Madras, and Bombay Werglits

| DENOMINAT1ON | Atoistapuly |  |  | Hengel Pactory Hatudy |  |  | Madras DIactads |  |  | Botubay Sinurde |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hen | 0 L |  | m<d) |  |  | mdn |  |  | mas | A | ples |
| 3ntavith peowl of low enteras | 135 | 10 | 0 | 1 | 38 | 10 | 5 | 3 | 15 | 1 | 33 | 524 |
| $\mathrm{t}_{\mathrm{t}} \mathrm{t}$ ¢ 1 factory maund | 4 | 10 | 107 | 1 | 0 | 0 | 2 | 7 | 357 | 5 | 26 | 20 |
| - bafar exaurad | 02 | 2 | $\pm 1$ | 1 | 1 | 0 | 3 | 2 | 11 | 7 | 37 | 10 |
| Ba: bay andy | 560 | 0 | 0 | 7 | 30 | 9 | 21 | 3 | 8 | 20 | 0 | $\stackrel{ }{0}$ |
| $f$ il $t$ manay | 30 | t | 0 | 0 | 16 | 11 | 1 | 5 | 31 | 1 | 安 | 357 |
| Cl1 P | 133 | 3 | 33 | 1 | 11 | 6 | 5 | 2 | 16 | 4 | 30 | 143 |
| Cratin © Ddy | 543 | 9 | 0 |  | 11 | 9 G | 21 | 5 | 311 | 10 | 16 | 129 |
| cambir ab zaticandy | 7 | 8 | 0 | 0 | 4 | 0 | 0 | 3 | 16 | 0 | 10 | 214 |
| Cun curady | 155 | 0 | 0 | 6 | 25 | 20 | 10 | 4 | 10 | 17 | 77 | 43 |
| M I at andy | 300 | 0 | 0 | 6 | 46 | 0 | 20 | 0 | 0 | 17 | 34 | 40 |
| MI If a bater | 4115 | 0 | 0 | 3 | 16 | 13 | 16 | 1 | 21 | 14 | 18 | 171 |
|  | 3611 | 0 | 0 | 7 | 10 | 0 | 92 | 3 | ${ }_{6}$ | 湥 | 0 | 0 |
| F+actalis | ${ }_{5}^{6}$ | 0 | 0 | d | 38 | 0 | 20 | 0 | 0 | 17 | 54 | 86 |
| 12 E pecul | 133 | 5 | 53 | 1 | 31 | 6 | 5 | 2 | 26 | 4 | 39 | 143 |
| Sur \% mated | 37 | ${ }^{5}$ | 53 107 | 0 | 20 | 4 | 1 | 3 | 379 | 1 | 13 | 50 |
| $\qquad$ $P_{\text {acion m mad }}$ | 74 | 10 | 107 | 1 | 0 | 0 | 2 | 7 | 557 | 9 | 20 | 20 |
| 1 Iticterss d) | 640) | 0 | 0 | N | 0 | 2 | 4 | 0 | 0 | 21 | 17 | 43 |

To eatimatz the vilue of some artacles in current rupees fer fictory weight with thear equarlents uconding to the new system, tha bollowing mules will suffie viz -Deduct fivo per cent from the price of value gituted in the curfat rupees per tactor) weight, and the result will be its equisaltiat it stcciapers per bazar (or new) weight. Or add one and a thard per cent to the prise cralue gtoted in current rupets per tat tory weight and the result will be pas equivilent a I urribliahid Mudras or liombny rupecs jur bizar (or new) weaght

Iise lollowhy. are loc il compared with other weights viz one Bengal factory maund is equal to 2 ands tis and 307 pols Madras and 2 mds 20 seers and 20 pace Bombay One bazar
 3. eers sad io pua Bumbar weighs

Livo Meastre
One bughlimmak 20 cott tha
One cottich or 20 chithat 720 square tect Ey, it elurtites of 4 cottah 910
tour chictak or 1 1 anah, 180

## Cloth Measube

Three corbe $=1$ ungullee
Three ungul'ecs = I gheriah
Eight gherrieg - I haw or cubit, 18 m
Two hause I guz, or vard

## CALCULATIONS ON PRODUCE

Imbino, purchased as under per factory maund of 74 Jb 10 oz exchange at $2 s$ per rapee trill cost in England the annexed prices per lb avordupous, apart from all expenses Charges on an average 10 per cent

| Eupeer per Mitand | Saptes per Manti. | Rupeer pry Hand | Hupeen per Hand |
| :---: | :---: | :---: | :---: |
|  | 160 rupees $=t_{\text {c }}^{4}$ dib |  | 2ato rupce $=\overbrace{i}^{4} \mathrm{db}$ |
|  |  |  |  |
|  | 159.410 | 290 | $280{ }^{290} 7$ |
| 130 - ${ }^{3} 4$ | 190.51. | 240 - 66 | 290 \% 70. |
| $140 \sim 39$ | 200 ; 5 - | 9800 | 30088 |
| 350 n 40 \% |  |  |  |



Banks, \&c - The Public companies and associations are Baok of Bengal Union Bank Agra Bank Eank of Western Indis Calcuta Branch "Cbamber of Commerce Trade Assocraison, Bonded Warehouse Assocuation Indıgo Planters Assectation and the Assam Tea Company

The Ineuranck Offices are the Bengal Fire Iusurance Company Indian Laudable and Mutual and Oriental

Mabina Lnscrance Ofpiees - Alliance Company Arpicable Office Asiatic Office Atlas Office Bengal Society Calcutta Company Calcutta Office Canton Office Camton Damon Sochety, Commercial Company Equatable Soctety Globe Office Hindostan Company Hope Company India Company, Ocean Maribe Company Oraptal Company, Ploenix Company Relance Office Sun Uffice Tropic Company Varversal Company, each of these had their respective agents in London

## The rates of premums of msurance are about as follows, wiz -

To ports in the Red Sen 4 per eent Europe, north of Great Britam, or Persian Gulf $3 t$ per cent To Curope not north of Great Britarn, North and South Amince (off or amiving at any port on the cosist), New South Wales, Chma (on slups and goods) Madagascar and Bushre, 3 per ceat To 1 agmoa, Macao or Inatin (on opman and specie) Mamila Jaya, W C Sumatra, Bourtoon (t per cent addtmonal for touching at the Maurtus) Coltubo, Trincomalee 21 per cent To St Helena or the Cape af per cent To Malacca, Singapore Rangoon Am berst Moulmen (other parts on the Teunasserm coast $1 \frac{1}{\text { f per cent) and Nammas, } 2 \text { per cent }}$ To Bombas 2 per tent, and from the 1 st of April to the 3 lst of October $-\frac{1}{2}$ per cent Fo Penang $\frac{1}{2}$ per cent To Colombo or Triacomalee $1 \frac{1}{s}$ per cent and from the lst of April to the 3 lat of October $2 \frac{1}{2}$ per cent To Madras and Coast of Coromandel $1 \pm$ per cent and from the 1 Ist of Appil to the 31 st of October 2 per cent, exclusive of mansoon rak from the 15 th of October to the 15 th of December for which an extra premum of I per cent is charged for each tume the veusel touches on the coast

The princupal merchants and agents of Calcutta were, before the recent fallures-

| Mesars | Allen Paten and Co Bugrbner and Co <br> Baice, Fielden end C <br> Eoyd Beaty sad Co <br> Brightranan and Co <br> Campbeit and Cis <br> Cert Tagofe and Ca <br> Cbapramp Gr lithe <br> $P$ ul aed $\mathrm{C}_{0}$ <br> Carter lake and co <br> Costicreli and 6 <br> Eulvila Gimore ard Co <br> Cutvi $A$ nsieg Coule apd to <br> Cracrof Fithaer and Eo <br> $J$ and M Crooke and Co | Mostril | H and A Crooks nod Co <br> T De souga arnet Cg Eglinten M Clute and Co <br> Foster Rogere and Co <br> Frager M Domald and 0 <br> SJ Fraser and Co Gardinar Thoman Hyde and Co <br> Gillanders Arbulh not and Co <br> Gietronoa and Co <br> Glad tone Huy Hus and Co <br> Glosa and © 0 <br> Gumter Greennway and $\mathrm{F}=$ | Mesarb. | Handiltan end Co <br> Hawnrth Hardman and Co <br> Fickey Bo ley \& Ce <br> famieron and co <br> fardine shinner mad Go <br> Kelsolimand Chse Leach Eetilewth and Co <br> hayiggutone Syurs abd 00 <br> Lyall <br> Yatheson nad Co <br> Macintyro and Co <br> Mackenaie Lyall and to <br> Mockey and Co <br> Mackullop stewart and co | 4 etars | Macricar Smith and 60 <br> Aichol, Wilkie and Co <br> Owen Allbisen and Co <br> Parryer and Co <br> Rastomjer Camta jee and Co <br> Smith Hulfagle and Co <br> Smith Laratom and Co <br> Trelloh and Ca <br> Turner Stoplord nod Co <br> Wat on Eorrradatio and Co <br> Willis bod Earlo |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Rates of Agency and Commuron - On the sale, parchase or shipment of builion jewellery pearls and precious stones 1 per cent On the purchase (when in lunds) or sale of indigo, sill and opsum 21 per cent Ditto dato wben finds are provided by the agent 5 per cent On all sules of purchastes of other goods 5 pei cent On the sale or purchase of slups factories, hou es or lands 2$\}$ per cent. On returns for consignments of made in produce, $2 \frac{1}{8}$ per cent On dituo if in bills bullion or treasure 1 per cent On goods or treasure consigned, aud all other property of any description referred to agency for sale, which shall be afterwards with drawn and on goods consigned for condtronal delvery to others (on invoice amount at the exchange of as per rupec) half com On makng advancea or procurtag loans of money for commercial purposes when the aggregate commision doea not exceed 5 per cent, ${ }_{2}$ per cent On guarnatemg bulls, bonds and other engagements and on becomons secumty $2 t$ per cent. On del credere, or guaranteeng the realisation of sales 21 per cent On executorshup or administration to estates $u$ per ceat On manggement of ettates for exechitors or admonstrators $2 \neq$ per cent On charterting slups or engagng tonnage $2\langle$ percent On advertheng as the agents of owners or conmandera of ships for passengers on the amount of passage money whether the same shatl pass througli the agents hands or not $2 \frac{1}{2}$ per cent. On procuring freght or advertisug as the agent of the owners or commanders the commission to be calculated on the gross amount of the
 On stithag insurance losses and averages and on procuring returns of premium 2 per cent On purchasing selling or negoluating bils of exchange 1 per cent On debts or other clams when a process at law or arintration is incurred, $2 \frac{1}{2}$ percent If recovered by such means oper cent On billis of ixchange returied dishonoured 1 per cent On ships disbursements, 2 娄 per cent On regohaning lonas on erepordeata, 2 per wont On grantiog letters of credit, 1 per cent. On the amourat debited or credited (at the option of the agent) within the year less tiue balance brouglit torward and ail tems on wheb a commension of 3 per cent has been charged, i per cent On all advances, not puactually liquidated, a second commisuton my be charged as on a new advance, provided it do not occur withup the same year
*** Brokerage when acturtly paid is considered a separate charge
The chartered Bank of Bengal was instituted in 1806, and chartered three years afterwards, with a capital of fifty lacs of sceca rupees, divided into 500 shares of 10,000 seca rupees each of which the East Inda Company held 100 shares, and they rose to a large premium The capital was afterwards increased to above $1,000,000 \ell$ sterling, divided into shares of 4000 rupees each, and subdivided into quarter shares It has mae directors, three are appointed by sovernment, and six elected every three years by the propretors The secretary to government, in the financial department, the accountant-general, and the subtreasurer, are the three ex offero government directors The secretary and treasurer of the bank is also a cipil servant of the Companv The notes of this bank
are recetved at all the public offices of Lower Bengal in payment of revenue The government being shareholders, the natives belteve it to be a government bank Among the strpulations are,-
" 1 The government require a deposit in thear treasury of twenty lacs of rupees in Company's paper, as security for the notes received at the pubie offices and the distnct freasunes
"By thear charter, thas bank issue as notes in the proportion of one-thurd of specie to two thirds of paper-that is to say, for every 900 rupees of notes issued, it must have 300 rupees in cash in deposit"

The Umon Bank was founded in 1829 It ws the only private bank at present (1848) m Bengal, three banks having some vears ago dissolved, but there is a branch of the Unon Bank of Indsa at Calcutta There is also a bank at Agra for the North West Provinces

Remittances are to a great extent made from India by advances on exports to England, the goods beng held m security by the Company's sercants The extent of these advances will appear more fully from the following return of the amount of money yearly remitted to this country by the East Inda Company on hypothecated goods or produce, for the last ten years, ending on the 31st day of July last..


Rates of Freght for Dead Wenght (say Sugar), per Ton of 20 cmt , from Calcutta to London, for the following Six Yeas were each month-

| 50 NTHE | 9 $800-4$ | 1841-49 | 1942-48 | 1843-4i | 134-45 | 1845-40 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | est E 6100 cos 40 a | $2 \tan 2 d$ | A*ds:d. | \&n. $\mathbb{E} d$ |  | + 4764 |
| Jund | 41006140 | 446410 |  |  |  | 4176 to 596 |
| Iuly | 61006150 | 3100400 | 21002100 | 110 10 | 50960 | 0 |
| Augurs | 6100 8150 | 8505109 | 200200 | 410470 | 41503060 | 500550 |
| September | 000660 | 9109 2156 | 800400 | \% 1503150 | 41004126 | 550530 |
| Octamer | 5180 6 0 ¢ | 2 50.2150 | 900 \% 00 | 3503100 | 4150 | 50.576 |
| Novernimer | 52005275 | $\begin{array}{llll}9150 & 3 & 0\end{array}$ | 300 \% 50 | 350300 | 476476 | 4 \% 04106 |
| Deeumarer | S $50 \sim 5100$ | 5150.80 | 3150400 | 300360 | $150+76$ | 51006150 |
| Januthry | 3180600 | 3100 3 300 | $400+40$ | \% Y6, 3100 | $41004 * 150$ | 5150600 |
| Fetruary | 5150000 | 2100,2100 | 31000150 | 400400 | 4150 \# 50 | 500500 |
| Manch | $\begin{array}{llll}0 & 50 & 3 & 31 \\ 5 & 5 & 0\end{array}$ | $2100^{\circ}$ \% 260 | 3179400 | 41004100 | $50^{*} 5 \leqslant 0$ |  |
| April | $550 \leqslant 100$ | 2150350 | 31503180 | 113650 | $550 \quad 5100$ | 41404100 |
|  Monthily | 5101060.16 | 41 to 3101 | 307 to 3814 | : 14.8 ton $1+5$ | 415 ntm 418 | 069542 |

Rates of Freght for Light Goods（axy Shell－lac），per Ton of 00 Cubic Feet，from Cal－ cutto to London，for the follonngy Six luars


| Y $\mathrm{E}_{\text {A }} \mathbf{8}$ | Averngo Monthly Arravila of bbips in Calentth． |  | Averago Monghty Hata of Preight for Dead Welkt（Soges）to Londen |  |
| :---: | :---: | :---: | :---: | :---: |
|  | cumber | tomang | ＊ | 4 |
| 1549－11 | 战 | $16 \mathrm{yd7}$ | 510 | 2 parton 20 cmt |
| 1931－1 | ${ }^{*}$ | 1043 ${ }^{14}$ | 37 | 1 |
| $181-3$ | 40 | 14.36 | 31 | 时 |
| 14，${ }^{14}$ | 41 | 14800 | 3 ts | 3 |
| $148-13$ 1845 | 43 | 17839 1485 | 4.16 | 10 |
| 1845－16 | 46 | 1438 | 3.8 | 1 |
| $\begin{gathered} \text { Aurriuk of Ships if } \\ \substack{\text { itar }} \\ \hline \end{gathered}$ | 44 | 17073 | 10 | 㛺 |

Trie Rates of Freight for 1845－6 from Calcutta to London and Liverpool were as follow－


Ship building in the port of Calrutta has dechned during the last quarter of a century In the six vears from 1800 to 1805 ，the number of ships constructed in Cilcutta amounted to seventy five，and their tonnage to 32,507 I，the cight ，ears from 1806 to 1813 ，the number of vessels bualt on the banks of the llooghly was seventy one，and thur tounage 33，719，in a similar periou，between 1814 and 1821，the vessels buit were minety five，and the tomnt c 41683 ，during the eight yeirs from 1822 to 1829 ，sirty one vessels， of 12119 tons wore launched，from 1830 to 1837 ，the ships launched were thity 511 ，and the tondiage 11,530 During the pariod comprised in the fol－
lowing returns, the number of vessels constructed did not exceed thirty three, and the tonnage 10,150 Thus it appears, that in the first twenty two years of this century, the number of vessels constructed in the port amounted to 241, and the tonnage to 107,912 In the last twenty-four years the number of vessels amounted only to 130 , and the tonnage to 34,137 The tonnage durng the latter period fell short of the tonnage of those which were bult from 1814 to 1821 by more than 7000 tons "The gradual declension of ship building an the last quarter of a century has been so palpable, and apparently so uremediable, that we must attribute it to some permanent cause which is likely to prevent its renvai in Calcutia We aseribe it to our mabilty to constract vessels of such superior architecture, or with such superior econozny as to compete with those which are constructed in England Of the commercial navy which adorns our port, every vessel of any mark and distinction has been bult in England The dearer but more productuve labour of Englsh workmen gives the ship buiders of England an advantage over their Eastern mpals, in spte of the low wages they pay, and the efforts of our dockyards are now confined to the construction of vessels employed in the coasting or China trade, and an occasional steamer But the increase of shupping in the port has given our docks more lucratuve employment in the repars of ships than they could hare expected from building them
"In this bnef notice of the shup-bualding of Calcurta, it must be added, that ship building has been introduced withn the last eighteen years into Noulnem, and carried on with much success The first vessel constructed in that port was the Deval, of fifty tons, in 1830 During the eight years preceding 1843, the number of sessels built and launched there exceeded those of $n$ correspondwg period in Calcutta by seventy per cent, viz, sixty-four has tonnage to 17,436 The vessels are substantal when honestly built, and very durable, but extremely deficient in elegance and finish The great adpantage enjoyed by the Moulmen bulders is denived from the immediate viomity of the teak-forests, but the tumber they furnish is by no means considered equal to that of Pegu Had we retaned the loner provinces of Burmah, when the king was at our mercy, and we might have obtaned any portion of his dommons we chose to approprate to curselves, Rangoon, with the boundless resources of the Pegu tealk forests above it, and the surpassing facility of navgation enjoyed by its river, would have become in a few years not only one of the largest marts in Asia, but the first ship-building port on this stde the Cape "-Calcuta Circular

Stitfarent of Fesscls built an the Port of Calcutta

| A ante flatela | 「onner | I] to of Lsuncting | Bualt bs whuth aide where |
| :---: | :---: | :---: | :---: |
|  | tos |  |  |
|  |  |  | Hunt by lit A sumey, af Homeral |
| 1 PPY | 140 | $\times 4 \mathrm{BLC}$ tat |  |
| fit th Hietil reox | 214 | latber intat |  |
|  | 143 | Dec lata |  |
| Thellamot | 237 |  | Ditt at anibs |
| \& Co Coterner Ent + prise | 531 | 1mik July is7e | Fremed too liteo |
| I 3 dy W Ites | $x_{4}{ }_{4}$ | 2 be Ma3 1 x | Rittis Mr J Koutar 3 im ne Howrab |
| Dwartanaut | 84 | * ${ }^{\text {ch }} \mathrm{pt}$ isty |  |
| l fora | 36 |  |  |
| Af moyer Couse | 711 | 1 tth Juls lods | From Calenta Dockich t wapany at Muderpore Dock Iard |
| $\begin{aligned} & \text { I fig } \\ & \text { lum } \\ & \hline \end{aligned}$ | ${ }_{3}^{25} 1$ |  | ${ }_{\text {, Buit by alt A Stmes at Hawrab }}$ |
| - Bar no r | 103 | Cept 1830 | Tron Mre Walke s Ya tut it infah |
| Prmpe $\mathrm{c}_{\text {a }} 1$ | 5 | lith Nor 1641 | From CxI nitu brekigg lompaty at haduerpore Dock Yati |
| (4) oftalach | 4848 | frd Jank lif 11, |  |
| $5 x$ enen | 4173 |  | inche by Mr 5 forter juy |
|  | 574 |  | 18, lit by Mr 5 frorter juu |
| it ce teari f Hot lus | 12 | In Jan 12lly! |  |
| 1 en ode ste miner lera | 151 | in mee 18+1) | Fram the Kadderpare bich Yard |
| Alta | J1\% | 7id Dee tod |  |
| \$ 19 Prases | 1 |  | 1 binis M a Simue t hownat |
| Litel | $5{ }^{\text {rad }}$ | 220d Aprll 16.1 |  |
| Ft nera 「indors | $30 \cdot 5$ | till April ? 14 | P untale cta P kug Company nt Howrat Dack Yand |
| tremtera $A_{1}$ ar | 27 ! | 1416 Sept 3edt | (1att by Mr a Arefe at suldea |
|  | 43 |  |  |
| 11 dow tixititerin rch | 1 c |  | Baale by M A Bewoter ut thowrab |
| rantamer: cham <br> Iros stlamitr fueklatid | 93 3 2-19 |  | Buth by mr Caldar at Howrat |
| - houmer Enigue | 11010 |  |  |
| A E1 ias | 510 5160 | 2165431615 | Bualt by Mr 1 Recoes at Sulkea. |
| सut le treats 5 Mind f Juppos | 160 180 |  |  |

The vessels whach trade between this port and Great Bratan are of two classes, the first of from 800 to 1200 tons each shp, arrives here about the commencment of the northerly monsoon (or the cold weather), say in the latter ead of October or November The vessels of this splendid class are termed "Passenger Shups," amongst the finest of which we $m{ }^{3}$, name the Queen, Buephalus, Marza Soames, Mounch, \&e The other class are vessels wheh are employed cluetly in the curying trade, and in size vary from 300 to 600 tons These arrive all the year round, but particularly during the runy season when, the internal commumeation of the country being fully opened, the largest quantity of native produce comes down to Calcutta

The tiude between Calcutta and Crance is, comparitisels trifing, beng enused on by a number of regular small traders of about 300 tons, whech arrive here durng the cold weather wath fancy goods, sold in exchange for indigo and dry saltenes

There is a hmated tride carned on by country bult ships with Ceylon in grain, occasionally a ship or two amries at Calcutta steking freyght

The expoit trade from Calcutta to the Mauritius consists of coohes and inee, Which (crmet are mostl) imported by a number of regular trading country-bult vessels that are fitted out for the purpose, and wheh return to Calcutta in billast

Duringo the veal endng 30th of April, 1816, thrity three vessels wath 7764 cooles alled from Calcutia to Manntius

To the Wret I vines, durng the same penod, there departed, for Demerara, sua ships, with 1425 coolhes, for Jarnaca, four ships, with 1015 coohes, and for Trimdad six ships, wilh 1524 cooles, total, anteen shrps, 3964 coohes Philanthropy never committed a greater or less successful blunder

Australia, Van Diemen's Lind, Nev Sonth W lees - Vessels frequently arruve from these places with troops, or horses 'These vessels have usually salled from England with emigrants, and when freights homewards from Sidney or adjacent parts are low or chefficult of attaining, such vessels also come in ballast to obtain cargoes in Calcutta

Pegu, Moulmein, and Rangoov --In the trade between these places and Calcutta the import-tonnage always evceeds the export, whech may be accounted for fiom the creumstance that about one-fourth of the vessels that arrive are new teak ships, just bualt, for sale or additonal fastemogs, and are generally despatehed with cargoes to London or to the eastward, about another fourth comprises vessels touching at the above places from Singapore to take in a cargo of nomber, for the Hoogly

China and Singayorb-The ressels trading whth these places are chuefy opium clippers

Bomsas - With the exception of occasionally salt and European goods, which cannot find a sale in that market, there is hitle or no trade between the two presidencies, although many vessels at all seasons of the year continually come round to Calcutta for cargoes

Coasting Trade and New Tamiff-The recent Order in Council promulgated by the Governorgeneral, the Earl of Dalhousie, which declares all duties abolished between the ports of any one presidency in Britush India, and those of any other pressdency, will greatly reheve and consequently merease the coasting trade This abolition of a barbarous and munuous syatem of restrictions, as well as the equalisation of all differential duties on mports, whether in British or in foreign ships, declared by the same Order in Councli, places the exterval and coasting trade of India upon sound principles Nor are the duties higher than purely revenue rates (See Tanffs, the scale now being for all the same as in the column of import duties by British ships and on British goods )

Rates of Weght or Mensurement for Tonnage zecording to the Tage of the East Indua Company at whech the following kind of Articles constituted the Cargoes of their Shupe are sall calculated at par Ton


Drid Weiget Abticles－Rice exported is of tro qualities，the one beng a white clear gran，adapted for Great Britam，the other yellow or reddish，and consumed by the coohes in the Mauntius and West Indies＊The former begins to arrive about December，the latter towards March Exports have been as follows－

| Y ESE | Great Pritana | Havictics | YEARS | Grage Brituma | M euration |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | bazur manndic． | bexar min ody |  | Jaza nsunds | benza maxiade |
| 1240－4i | 5and 408 | 8374 | 1813－44 | 455＋ 70 | 54394 |
| 191： 4 |  | \％30312 | $11^{1+14} 3$ | （1） 303 | $7{ }^{-217}$ |
| $1-1$ | 48172 | 4 3gn | 1184－10 | 10324.60 | 07 14＊5 |

This artucle is slupped at 20 crt per ton
Sugar－The shipments of this staple amounted，in 1831－32，to 188，660 maunds or 6923 tons，in 18356 ，to 843,889 maunds or 30,968 tons ${ }^{1}$ The new sugars begin to arnve in Calcuttia about June This article，like rice，is shipped at 20 cwt per ton

The exports have been as follows－

| YBARS | Great Brutain | YGARS | Grest Britain |
| :---: | :---: | :---: | :---: |
| 1 RLO － 17 | bazar tranoada 171290 |  | baxar mautads 15.16 が的 |
| 1 410 －${ }^{\text {a }}$ | 14502 | 180．4－ 5 |  |
| $1542-43$ | 133115 | 13845－46 | 1，231 2034 |

Saltpetre－The Americans and French carry away in their shops large supphes of this article direct from Calcuta The manufacture of at contmues
durng the whole of the dry season, say from October until June, although it is not until the opeang of the rivers by rains, ol about the commencement of July, that supples begm to arnve in Calcutta This article is shipped at 20 cwt per ton

The exports have been as follows

| Y K A R 8 | Great Britaín | Praucs | Nortb Ammen |
| :---: | :---: | :---: | :---: |
| 1950-41 | bawor moanda 3131034 | bazar mandide 39 35 | bukar malands $472 \sin$ |
| 1841-12 | 9837438 | \$10749 | 105, ${ }^{\text {che }}$ |
| 1312-63 | 4800737 |  | 47128 |
| (1433- 18 | ${ }_{37}^{371033}$ | ${ }^{67} 78$ | Wut ${ }^{\text {cost }}$ |
| 1944-45 | 37.5838 | $23 \times 2 \times 4$ | 1102114 |
| 184, - 6 | 46034 | 42, 1314 | 184.41 |

Hudes and shens are shipped all the year round, but chefly from June to November, when, from the opening of the rivers, large supples come down into Calcutta The total average exports are computed at $2,000,000$ preces, of the average weight of 10 ibs each hade and skin, equal to 8928 tons of 90 cmt Hides are shipped at fifty foum cubic feet to the ton, and also per ton of 14 cFt , generally by the latter standard

The exports have been as follows -


Liant Goods - Indyo - Arrives about November, and is generally all shipped by April, filty cubnc feet go to the ton

Silh armes all the jear round, and is shapped at 10 ewt perton. These tro articles being of great intrinsic value, it is very duffealt to procure them on freight, unleas the ship is not only A 1 , but also of a very superor class, the highest character of a chip at this port is to have, on a previous voyage, obtained an "undgo and stl. cargo"

Jute is exported all the jear round, but principally from December to June It is shippod at fifty cubic feet per ton, as also per ton of five bales of 300 lbs each When shpped per ton of nity cubic feet, the same equals about a ton of 20 ewt, in nearly the following ratio,

When jute $1 s$ shipped at the rate per ton of five bales, or 1500 lbs , the same equals 13 cwt 1 qr 16 lbs

Shcl-lac and lac dye tre shyped bv ton of fifty cubic feet, and armee and are exported at all seasons of the year

The following tables shon the period at which the vanous descriptions of produce from Caleutta are generally shipped to Great Britam, during 1643-44, 1844-45, and 1845-46, and of the principal articles of "dead werght" and - light freight "-

Statcment, showing the Monthly Exports of the Prinemal Descipptions of Dead Weight m Tons, takıog the avernge Annual Shipments, dunng 1843 to 18.46


Sritemext, showng the Monthiy Exports of the Principal Descriptions of Laght Goods in Tons, talung the average Annual Shupments, during 1843 to 1846

| VONTHE |  | L 1 GHT GOODS |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | J te | ladigo | Rum | Stik | Stell las | $\underset{\text { Gulk Preds }}{\text { Goods }}$ | Lac Dye | Totat |
| He | tons | per ${ }_{15}^{1}+8$ | pers 349 | per 4 htulk | per 10 eat | per 500 ef | per 50 ctc | Tol 30 ctr | $\begin{aligned} & \text { pumber } \\ & \text { \& } 1111 \end{aligned}$ |
| 3 une | do | $1 * 7$ | 32 |  | 206 | 114 | at | 4) | $1 \times 79$ |
| July | 1 | 1233 | 13 | 192 | 361 | 117 | 72 | 80 | 146 |
| A cust | d | 62 | 60 | 244 | 130 | N7 | 70 | 29 | 1050 |
| - promber | do | 1515 | 21 | 190 | 109 | 183 |  | 23 | 156 |
| Out ber | do | 1204 |  | 169 | 32 | 10.4 | 19 | $\pm 0$ | 1691 |
| N veabor | do | 1 H9 | 368 | 236 | 91 | 15 | 7 | 3 | 2516 |
| Dio + Ler | do | 1 3005 | 120 | 7.45 | 69 | 120 | 745 | 61 | 3,348 |
| 1 huary | d | 1300 | 115 | 41 | 117 | N4 | 7 | 319 | 3,365 |
| i b lary | do | 103 | 11075 | 17.1 | 14. | 10 | 62 | 34 | 3406 |
| \$1 ct | do | $1{ }^{1}$ ? | 311 | $1{ }^{1}$ | 151 | 10 | ${ }^{61}$ | 36 37 | 2486 1677 |
| Agris | da | 11st | 142 | 147 | 10 | 116 | Q2 | 37 | 1677 |
| TertL |  | 16.93 | 4982 | 102 | 4: | 1423 | 853 | 414 | 38.117 |

[^21] to at cheat lac dy st cubse feet to one wheme.

The space, on the average, occupied by the vanous descruptions of dead weight are as follows -

| Saltpetre |  | 6516 | to |  | cubuc foot | ergo |  |  |  | to 3 | feat | ches |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sugar |  | 58 | , | 1 |  |  | 20 | , |  | 88 | , |  |
| Ruce | * | 54 |  | 1 |  |  | 20 |  |  | 41 | 7 |  |
| Linseed |  | 43 |  | 1 | " | * | 20 | , | , | 52 | 1 |  |
| Wheat |  | 51 |  | 1 |  | * | 20 | , | \% | 43 | 11 |  |
| Flont |  | 47 |  | 1 | " | " | 90 | , | , | 47 | 8 |  |
| Coffee |  | 37 |  | 1 | n | , | 20 |  |  | 60 | 6 |  |
| Furmeric |  | 34 |  | 1 | " |  | 20 |  | \% | 65 | 10 |  |
| Gloger |  | 28 |  | 1 |  |  | 20 |  |  | 80 |  | " |
| Tincal |  | 54 | 1 | 1 | " | n | 20 | , |  | 41 | , 6 |  |

Saltpetre, which occupies the least space, is the best, and linseed the worst freight for a vessel, saltpetre at $4110 s$ equals, as regards space occupied, sugar at $5 l$ Os $7 d$, nce at $5 l 8 s 5 d$, and inseed at $6 l 15 s 10 d$ Generally on the average linseed m this market rules $5 s$ over nice, nice $5 s$ over sugar, and sugar 5 s over saltpetre, whence it necessaraly follows, that by taking saltpetre as dead weight, and filling up with jute, forms a good easy cargo, and occupies all the avaulable room in the vessel, and realises more freight than by loading, as is generally done, one fourth saltpetre, one-fourth sugar, one-fourth mice, one fourth linseed, and the remander light freight for example, a vessel of 450 tons' register, presuming it to carry 700 tons of 20 cyt (her draft when thus loaded is about seventeen feet), her hold then contans about 40,000 to 41,000 cubce feet, the difference effected by the dufferent modes of loading will be, viz -


By loading a vessel in the above manner, a gross freight of $3778 l$ is earned, and about 5000 cubie feet (or the balance of what the 700 tons occupues, wiz, 35,743 feet 9 melses, and the ships hold) are wasted, it being impossible, the vessel having 700 tons of 20 cwt of cargo on bourd, to fill up the same, as she then, as before stated, draws her seventeen feet By loading a yessel, however, as follows, not only is such space fully oceupied, but the freight list also shows $253 l$ 10s plus

| Tona | 9 Frot | Jn $\ddagger$ \% ${ }^{\text {d }}$ |  | $\pm$ | ${ }^{\text {d }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 300 Sultjetre occupying | 10300 | Oat 410 a per ton | equal to | 1300 | 00 |
| 400 of 30 ckt jute reckoned as above | 29,800 | 0,4100 | , | 2682 | 00 |
| 700 of 20 cwt , oceupying | 40,150 | Ogivitg a gross fre |  | 4032 | 00 |


#### Abstract

"It will thus be seen that at is from the homevard, and not the outward, argo whence the profit on the voyage as to be made, and that a few shillings a ton on (or even a propes seluction of the elurn fierght uth oflon go jut to counterbalance the achole amount of the outward earnings"

One of the great objections that ounus of ships have to consigning their wessels to Calcutta, anses from the heasy port dues that are modental to the Hooghly, and which m many cases have, especally on small vessels amounted to no less than 20 s per reguster ton These are charges incurred by a vessel whist in thas nuer, and untul a more adequate supply of tug steamels ave brought out it will be imposible to obtan any material reduction in the rates of steam hre and plotage

In order, however, to ullustrate how deeply interested some of our shipping friends are 1 n the adequate and further supply of steam tugs, whereby the port charges can alone be reducen, we wall take the case of a ship owner who has five vessels, of 600 tons each, proceeding to this river, and who, for port charges alone, has annually to enpend thereon no less a sum than 30,000 Company $s$ rupees or 3000 sterling - Calcutta Repol 4,1847


Piotage chargeable on Vessels


Protige chargeable on Vessels-(contmutd)


The plotage of the Hooghly Liver is divided into twelfths, for the conve mence of charging intermediate or brohen pilotage, viz from sea to places short of Calcutta, and from and to antercoediate places, as also for the purpose of the proportionate deduction being made when vessels are tugged by steam ans portion of the distance

The following shows the number of twelfths chargeable between the several stations -

| INWARD PKOPORTION | Rates Charged | OUTWARD PROPORTION | Rates Charsed |
| :---: | :---: | :---: | :---: |
| Toseut vack Ena | arackipr | To Hiogeore calegita | mmount |
| To Saugar | 4 fabs | To Afoynpore or Pultat Ta Diamuad Hiarbour | $\begin{aligned} & 21 \text { tha } \\ & 3-12 \mathrm{thn} \end{aligned}$ |
| Tokinj reo | G-1 ¢\% | To eutpen | 419 ths |
| 10 jin mentud Hatbor $r$ | 9-130\% | To kedagere | 0-1prome |
| 10 Futisi or Moyayme |  | To Saupor | 0-12ths |
| To a indta-fill phoruge |  | Fo Sez-futil pilotage |  |

Moy apore Magazine Dyty-chargeable once for unch soyage on a vesbel passing Moyapore anward - one anha per ton on registered coonage, and vessels drawng uader eight feet dranght of wallo pre exempted

Lught Duty-the dutr as levoble every the a veasel enters the ravex, excipt returang from stresi of weather-two annas dito

Row boat-hnward-Company s rupes thrteen per diea
Dito-outward

| From Ist of Apral to the Alst of July | 700 tons and upwards |  | Co's Rs | 128 |
| :---: | :---: | :---: | :---: | :---: |
|  | 500 t0 699 | , |  |  |
|  | 300 to 490 | , | " | 76 |
| From Ist of Aog to the Sist of March | 700 |  |  | 89 |
|  | J00 to 699 | $\stackrel{ }{ }$ | , | 20 |
|  | \$00 60.499 |  |  | 51 |
| Row boat at llooghly Potat, per diem |  |  | , | 13 |

If the hatreer is ured in assisting a vessel in danger of on shore per diem 26
NB Vessels under 300 tons are excmpted from the attendance of a rom bont in and of the plotage untess one is required by the cammander

The Hith of the Calcutta Chain Moorives

| All vessely | up to 1097 mbs | Cos At | 2 per diem |
| :---: | :---: | :---: | :---: |
|  | from 200 to 299 |  | 8 |
|  | 400 to 300 | " | 4 |
|  | 400 to 499 | , | 5 |
|  | 500 to 299 |  | 6 |
|  | R00 and upwards | " | 7 |
| Sming ingmoontigs |  | , | 3 |

N B No ressels above 300 tons burden can be hauled to the swinging moonings


## Hatuvgiv on ouf of Docs, amov oh ofp the Shif of Wars

Il above 900 thons esch opertion
Cos Rs 40
If of or under 300 toons ditto
Ior the use of the buoy huling into or out of dock Riding at the sadd buoy per diem
Iransparting vessels (when not at the chaun moorings or not going unto or coming ont of dock) from Sulkea to any part of the river not beiow Kidderpore
Temsporting ans ship, after having bee moored from cne moonug to aroother if at the request of the owner or commander

20 10 3

Diamond Harbour - The same charge so made for haulage to and from and occupsing the moorings at Diamond Harbour as exists in the Calcutia moortogs
 of recurn fure

Abstinct of Charges, Losses, and Profits of the Calcutta Mint, in 1844-5, the lsst Account.


Consages in the Year 1844-5


Absinacr of the Operations of the Calcutta Mant from its Reform 101831 to 1844, stating the Cxpense under each Head, and the Amount of Com, and the Number of each Kind coned in each Year

| $\infty$ <br>  <br> 0 |  |  | 等 |  |  | NUMEES Of bach kind coined in baca ybar. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ConRo | Custa |  | Co 4 Ra | Congr | Mingla | Rupeer |  | $\left\lvert\, \begin{aligned} & \text { Ocarztor } \\ & \text { kupuerd. } \end{aligned}\right.$ | $\begin{aligned} & \text { Qagrter Aiz } \\ & \text { man or Pyed } \end{aligned}$ | $\left\|\begin{array}{c} P \mathrm{PG} \\ \mathrm{Pieces} \end{array}\right\|$ | Con $\triangle$ Re | $\mathrm{Ca}_{4}$ ARs | Co Am | Co 4 Rs | Cos 4 Fs | Co arin |
| 1831-32 | 2154348 | 92 | 84 34 715 | 08335 | 63 | 114963 | 36 \% 114 | 13,66,988 | 14,24,307 | 2.033238 | 9060 0000 | E0 100 | [ 5,110 | 100,681 | 4,934 | 9731 | 4,201,520 |
| 1832-33 | \# $22 \times 85$ | 2 C 4,478 | $13335306)^{1}$ | 103,13654 | 110,19179 | 143189 | 79,90,017 |  |  |  | 5s, 74,318 | 00.539 | 11780 | 105748 | al 760 | 8 749 | 920,386 |
| 1833-84 | 3243249 | 30,39 094 | 133928466 | 16176,127 | $158,42,847$ | 155 | 104883006 | 20,4 860 | 415260 |  | 225 | H Con | 7869 | 1 13,7cb | 29.604 | 8127 | 214042 |
| 1895-35 | 17784102 | 2017.5781 | 126,00585 | 14979600 | 12528027 | 98712 | 11870233 | 1397985 | 2284410 | $\left\{\begin{array}{c}1103420+ \\ 8,0,61+\end{array}\right\}$ | O6 629065 | 92760 | 0,586 | 118185 | 40,294 | 335 | 270,416 |
| 133.0 - 36 | 141104z | 13.1 | 223,10139, | $165 ., 3020$ | 17703154 | $\left\{\begin{array}{l}1174 \\ 0 \times 04 \\ 4\end{array}\right.$ | $1)^{7} 6808887$ | 521360 | - 218830 |  | Lisar a7c | 73,549 | ${ }^{3} \mathrm{~d} 83$ | 120,165 | d3,515 | \% 615 | 3185845 |
| 1936-37 | ${ }^{2} 2.8 .8662$ | 18 | $27078913{ }^{3}$ | 30171008 | a | 4643 | 2,8963015 | 1704,923 | 159 | 9280000 |  | 79189 | 10249 | 1,84 027 | 83214 | 8,836 |  |
| 1837-34 | 10,84075 | -8 | $880,16 r^{1} \times 5$ | 90, | $216,04,5000$ | toss | 118708,780 | 22 21,083 | 12,37 498 | \$0498 96 |  | 23620 | 9,96\% | 1 18,839 | 4503 | 7401 | 3,01221 |
| [13s-39 | 14, 1.30 C | 114872 | 96405 | . 5 | 7to 14 fa | 20771 | 25954195 | 7,34539 | 126 48,908 | 3,2406000 |  | ch 101 | 0083 | 1,28,045 | $\mathrm{c}_{5} 773$ | 8789 | 274791 |
| 1999-40 | 9873,027 | 1794,870 | $232,86,688$ | 1,22,11431 | 72898, 昞 | 4968 | 201 | 19 48,729 | 21 39782 | 2 50 293 2tic |  | 71560 | 10935 | 127.006 | 75661 | 88.819 | 80598 |
| 1800-41 | 402,900 | \$2,70 199 | 15 SS | 4801 | 2 74,81, e 50 | 3, 848 | 1354188 | 5 8t 134 | 14181818 | 92203138 |  | 60,669 | 903 | 12.3983 | 657 | 8,504 | 2,59009 |
| 1841-12 | 222,001 | 2,48, 1068 | 31,5406012 |  | 287 | 15401 | 28120,2605 |  | 202 | 53780104 |  | 48,559 | 9260 | 121 9\%a | Of seat | 3,857 | 2,44 541 |
| 1942-13 | 61081 |  | 22939041 | $20 \mathrm{ta3} 107$ | $3 \mathrm{CBP}_{3} 308$ |  | 129,30480 | 14,02,201 | 21,58831 | 143715 can |  | 71978 | 1274 | 12812 | 12,850 | 403.3 | 247540 |
| 1843-44 | cr 808 | 108.675 | 2,33 25 621 |  | 22304733 | 11039 | 2110503 | 87350 | 806.384 | 808,25004 |  | 09078 | 10400 | 118748 | 65,3 | 4,015 | 2,87673 |
| Total |  |  |  |  | 2358210240 |  |  |  |  |  |  |  |  |  |  |  | 3,359 613 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Av Abstract Statement of the Revenue and Charges of the Bombay Mint in

| DE E CRIPTIOM | Value | Valae |
| :---: | :---: | :---: |
| fint duty an rliow io a * parate stalcment For cntitag as e miver fromi Ctum Cain on copper colnge | Fupeet. $2,43+705$ 1033 91,26 | Tuppen. |
| Toral retenco <br> Amsont of charg * for ariories and chotungencuo I 9s br wiotag cts th pllyear conolage Dito on the exp perdiato | 998500 47850 30.3 | 270,907 |
| Ped ct- <br> A woina realinatioy the rale of matersicenble toror | $2,50,073$ 8.674 | 212394 |
| Nett revenpe |  | 141108 |

An abstract statement of bullion recenved for comage in the Bombay Mant in the years 1844 - 40 -

Gold - For comege for the East India Company 12061 rupees for conage for merchants, 3423 rupees

Sher-Far comage for the East India Company, 2270962 rupees for counge for merchants $141 \mathrm{ib}, 00$ rupess mint duty at two per ceat on the silver and one per cent on gold for connge fur merchants $203,60,2$ nupes

Statement of the copper comage in the Bombay Mnt, in the years 1844 -4v -

Half ama preces 5118400 uommal value, 1,0950 rupees cost of the copper 68081 rupes gain to osurnmett 91869 rupees
A, Abstiact of the Revenues and Charges of the Madras Mint in 1814-45


The gold and sulver connage in the Madras Mint, in the years 1814-45, was as follows -

Value of gold coned 83595 rupees value of silver coned $\mathbf{3 1} 72358$ rupees the seignorage and retioage duty recened, 8100 ruphes

The copper comage in the Madras Mint, in the years $1844-45$, was as follows -

Half amm preces 4784000 quarter ariua preces 5840,000 sugle pre preces 531,000 momial saluc of the three $2,35,708$ mipees value of the copper, 96,198 rupees gun to govern munt 130,200 rupees

An obstract statement of the charges of the Madras Mnt, for the years 1844-40

Total charges

| Rupees |
| ---: |
| 14204 |
| 38479 |
| 7733 |
| 36971 |
| 4440 |
| $1,2.919$ |

Rupers
142,4
38479
7733
56971
$1,2,913$

## MADRAS

Mapras is the capital of the presidency of the same name It is the principal place on the coast of Coromandel, and situated in Lat 13 deg 5 mm $\mathrm{N}, \mathrm{Lon} 80 \mathrm{deg} 21 \mathrm{~mm} \mathbf{Z}$ The area of the presidency is about 172,000 square miles, with a popalation, according to the census of 1836-37, of $18,314,000$, paying a gross annual revenue of above $5,000,000 \mathrm{l}$ stering

Madras $1 s$ satuated in rather a sterile and a sandy part of the Carnatuc It has no harbour, and ships ride off the coast exposed to the swell of the ocean, and landing is only effected through or over a surf that never rests, and across a rapud current Typhoons, or hurreanes, are also experienced No place can be more inconvenuent for tradang purposes It owes its importance to ats fortificatrons, and its being the capital of the presidency, which has gathered within and around it a population vanously estmated at from 180,000 to 400,000 The latter must include the Black Town, situated to the north east of the fort Several native Armensans, \&c, reside within the lattel Madras is very unequally buit

It has been in the possession of the Engbsh suce 1639
In the roads ships moor off the shore at from seven to nine fathoms, with the flag staff of the fort bearing W NW, two males distant Erom October to January storms and typhoons preval, and from the 15th of October the flagstaff is struck, as a signal for slups not to anchor, till the 15 th of December The fort light house is mnety feet above the level of the sea, and may be seen at seventeen mules' distance, or from the mast-head of a large shup twenty six miles The Massula boats employed to cross the surf are large and laght, constructed of thin planks sewed together, with straw caulling, and are phed fortrard with the utmost vigour to prevent the wave from taking the boat back as it recedes, until at length, by a few successive surfs, the boat is thrown high and dry upon the beach Boats belonging to shaps in the roads sometimes row near the surf, and wats for the Massula boats When it is dangerous to land, a flag is hoisted at the beach house

The fishermen and lower classes use a catamaran, formed of two or three $\log s$ of $\operatorname{light}$ wood, eight or ten feet in length, lashed together, with a puece of wood mserted between then to serve as a stem prece When ready for the water, they hold generally two men, who with their paddles mpel themselves through the surf, to carry water, \&c, in small quantities, to ships, when no boat can venture to land or put to sea

The moports and exports of Madras are stated in detal in the statustical tables given in former pages of this work Those tables exhubit the different countries with which the trade and navigation of this presidency as carried on

Momesp Meights, and Meastrit - Mercantile accounts are kept in Standard Rupees Fanams and Casl the con chuff current being btar Pagodus of the intrinsie value of 7 fo 5 f bat iasually taken at $8 x$

## Ahcet and Contais $s$ Rupees and then Sodmabiong

(vi) cash $=1 \mathrm{Inom}$
$12 \mathrm{fam}=1$ rupee

## Weicits

14 pagedas $=1$ pollam $=1$ or 4 dr
40 potlams of $u$ sect $=1$ vis $=$ sibs 2 oz
8 is $=1$ maund $=2016=$
90 maunds $\Rightarrow 1$ candy $=500 \mathrm{lbs}$
34. nupees or 42 fanams $=1$ payoda

15 rupecs $=1$ Madres gold roohur
MEA LeES
$s$ ollucks $=1$ pudite
o puddiee $=1$ narcal $=750$ eubic uches
J marcals $=1$ purah
80 pamhs $=1$ garec $=174$ sapl quarters.

When grain is sold by weight, 22063 lba are rechontd for a gatce
In most parts of the Madras Jablure, and on the Coromandel coast, the followng used -

## Table of Malabar Weighite

10 aralume $=1$ pollane $=1$ oc 3 at dr
tit pollam $=1$ visay or ats $=3$ lbs ooz 4 dr

20 manungus $=\left\{\begin{array}{c}1 \text { barnay } \\ \text { or condy }\end{array}\right\}=402 \mathrm{ibs} 8 \mathrm{oz}$
$20 \mathrm{bass}=\left\{\begin{array}{l}1 \text { ganay } \\ \text { or gare }\end{array}\right\}=06,0 \mathrm{lbs}$
Local Wetchts compandd witf those of the otheb Pheginencify mith the lidin Sindafd ane Bimtiar Ayordopois Weigets - The Uadras candy of 20 maunds is equal to 6 ms 约 sucrs Bengal Factory 17 ms 34 seers N Whathe Bombay or 6 ms 3 seen 1 ch Stabdard manac's and 510 lbs avorduposs The Tellicherry candiv of 20 matuds is equal to

 7 m 25 eers Bengal Factory 22 ms 9 vis 8 poll Dadras atad 20 ms Bomatar or 6 ms 32 suct

 Socrety buides the Agencies of the tollowing offres whe the Hindostan atid Atlos Companka of Calcutta Vessra Arbuthot and Co the Calcutat Offe and Bengal Soucty ot Cat utta, and the Bonulaty Socketv of Bombat Messn Binney and Co, the Phomix Conpany of Calcutta
 Kant mase and C, the Equanble bocity and Commeriad Company of Calcutta Mrars Line and Co the Laicuta and Ocean Manne Compantes and the Sum Officu of Calenta, Mess Parry and Co

The rates of premmin in insuratace are about as follows -

From the port of Jadras to


I rom the port of Madras to


At the period antuedent to the late peace the followng were the princopal merchants and
 $\& C, \quad$ Irmo \& Cot Campinel) Auderson \& Co, Gaian, Eaton \& Co Griffiths \& Co Hill Fawbrid_e Co Hall \& Phulips Lure \& Co $\ddagger$ Ouelaterlony \& Co Parry \& Co Smifh Cluh X Co

Rites of Agemgy and Cominission
On the totul sum of a debst orcreditside of an aceount, at the option of the agent exceptrag



Oulutemelicieditimated
On dun matration in citere of defubed persuds

[^22]On the management of estates for exectors and administrators or becoming security for them ..... 2雱
On debts when a process of lew or arbitration is necessury ..... 24
If recoyered by such means ..... $\stackrel{3}{1}$
On bills of exchange noter \&c dishonoured
2f
On over lue debts collected for absentees
On over lue debts collected for absentees
On all stales or purchases of goods ..... 5
With the following exceptions
With the following exceptions ..... $2 \frac{1}{2}$
On sale and purclia e of bouses lands and shops .....
9 .....
9
On ditto of treasure and bullion
On ditto of treasure and bullion ..... 1 ..... 1
On all goods and merchandise withdrawn, shipped or delivertd to order half commision
On all otict descriptions of property for sale if wathdrawn or otherxise disposed of by the on enerhalf commession
On goods transferred to auction or commasion salesmen lralf coumisaion
On guaranteeng sales bills, boods, contracts for goods or ofher engagements ..... 24
On ships-disbursements ..... 24
On charteriag shups or engaging tonnage ..... 2.
On advertising as the agente of owners or commanders of ships for freight or pase ensers on the mount of frugit and passagemoney, whetior the same shall pass through the agents hands or not ..... 5
On effecting insurance or whting orders for same ..... 0
On setilng losses, partial or general, and returns of prebuam ..... 1
On procuring money on reopondentro wherever payable ..... 2
On making tup or purchasing goods to ordes, where tunds are not provided ..... 7
On givitig orders for the provision of goods, when a commission is not chargable on sale or shapment ..... 21
On attending the delivery of contract goods ..... 2

DISTANCES FROM MADRAS


Bowbis, the captal of the preadency of the same name, or of Western India, is situated on a small island, in Lat $18 \mathrm{~d}_{\mathrm{s}} 56 \mathrm{nmm} \mathrm{N}$, Long 72 deg 57 $\operatorname{mon} \mathbf{E}$ A deep arm of the sta rumming between Bombay and the main Ind, sheltered from the surges of the ocean by four other islands, forms one of the most safe and best harbours in the world

When taken possession of by the English in 1664 its population, consisting chefly of outcasts, $\mathrm{d} d$ not exceed $1,5,000$ inhabitants The present number is stated at about 240000 , chiefly Hindoos The British inhulitants arc veiv few in number The native Parsees and Portuguese, -the Arals, Jews, and other races, who resort to, and hre m , this city, constatute the remaming population The Parsees, of all the Orental riees, are the most enterprising, and hoid the highest position

The docks are commodious, but for reparing ships expensise The slups built here, chefy by the Parsees, are excellent vessels, but the expense of construction enormous, as they 7re altogether buit of Malabar teak They are probably the most durable ships in the world But there are fenel buit here than there were formerly They are clucfly manned by Lascars

The port charges are plotage, anchurge, and buoy duties The trade of Bombay with all places witl be found stated in detal in the preceding tables of the commerce of the presidencs

If the projected ralway from this port to the interior were completed, the trade of this capacious and admirably struated port, would no doubt grently incrense There are several encellent institutions, periodical publications, newspapers, benerolent, and other socielies established in the city, the detuls of Which are too lengthy for us to introduce

Besides the banks of the tonn there are branches or agencies of other banks, insurance offices, and brokere, a mint, libraties, \&c

The rise ind fall of tide is from thrteen to sasteen feet The dochs were constructed for the reparr of the largest ships by the Last Inda Company They are, ne behce, now in the charge of Parsee supermtendents and shinwrights

[^23]Shpp's disbursements when no commssion lass been charged on freight or cargo per cent $2 \frac{1}{2}$
Effecting insurances
Setting msurance losses whether partial or total also on procuring return of premum exclasive of commission on recelpt of cash
Del eredere or guaranteeng the responsibility of persons to whom goods are sold on the amount of sales
The sale or purchase of enttle 54
Collectug bonse-rent
Effecing remittances by bslla of exchange (not beang the proceeds of good sald) I
Tating up interest bils from the Company (exelusive of one per eeat on remuting)
Salc or purchase of public or pravate bills of exchange
Exchanging Company's securitues of all descriptions or anvesung money theren and on translerng government paper from one constituent to anouler
Enrendering or depositing in the treasury Companys secunty of all descriptions
Procuring money on respondentia or on Joan
Recovery of bonds or bills for abscotces, over-dae at tha period of thetr buag placed tu the possesshon of the agent
Debts, when a process at lar or byatbitration is necessary, $2 \frac{1}{2}$ per cent and if recovered by
Debts, when a process at lar or byatbitration is necessary, 2 , per cent and if recovered by
such means --
Managmg the affairs of an estate for an executor or admoistrator 5
Gunranterigg bills bonds or debts ingenema by endorsement or otherwise
Attending the delivery of contract goods to the Company or madivinals
Gunranteeng bills bonds or debts in geneml by endorsement or otherwise
Attending the delivery of contract goods to the Company or madivduals
Goods consigoed and afterwards witbdrawn, on unvoice cost
BHlls of exchange returned noted or protested, \& $c$.
Recept of payment (at the option of the agent) of all mobeys not arsang from proceeds of
goods on which commission has been previously clarged 1
All cases where the debtar side of the account exceeds the credht side, including the baiance
of interest, commission chargeable on the dibtor side at the rate of
II cases where the debtor side of the atcount exceeds the credit stde, uncluding the balance
of interest, commission chargeable on the dibtor side at the rate of
Granting letters of eredit
Becoming securty to government, or public bodies, in ang case
Goods consigned what are disposed of by outcry or sent to a shop on nett proceeds
Becoming securty to government, or puiblic bodics, in ang case
Goods consigned whal are disposed of by outcry or sent to a shop on nett proceeds
Deposing government paper as security for constituents
Buoy and Anchorage Dues

| B URDEN | Finte per Aantuct |
| :---: | :---: |
|  | rupecte |
|  |  |
|  | 6 |
| Above st to ueder 30 toms | t0 |
| Aboye S0 to 100 do | 50 |
| 100 to 100 do | * |
| 150 to ${ }^{\text {cos }}$ (0) | It |
| 200 ta 2000 dt | 34 |



Note - Forbigu sinjpe of waz ars to pasy in bulation to the above rates, 40 rapees

Ltger Houes Duts - All ehips and vessels down to twenty tons, at 15 rupees per 100 tons per annum

All vessels under twents num tons burden, at 2 rupees per aunum
There are no other port charges
Wherss Heghts and Meaxures - Acronnts are here kept in rupees each rupee beng divided teto 4 quarters and fach quartur nato ino reas The rupee is also divided fato 16 annas, or 00 phe An urdee is 2 reas a donncea breas a dermaney or single plec 4 reas a fuddea, or double ptee 8 res a puincheats, rupecs ud a rold mohur 15 rupees Of these the annas abd reas only at magroary monege The coms of Dombay are the molar or gola yupee, the silver or company s ruper and hicir dusions also the double and sungle pice the ardee, 2nd deorten, which are coppei coins with a mixture of too or lead The following is the assay and sterling value of the present gold and silier conage of Bombay -

|  | Gross Werght | Pure $\mathrm{Mc}_{\text {ctal }}$ | Sterhing Value |
| :---: | :---: | :---: | :---: |
| Cole moher | ${ }_{\text {INO}}$ | ${ }_{165}$ | $\bigcirc 92$ |
| Compam s tupee (sther) | 180 | 16.5 | 111, if stiver be taken at |

The Compank s rupee his onl, been coned sunce the ist of September 1830 but it is almost dentical in re pect of talue auth the rupere presou it in erculation

The charge foi comage in the Boinbly hint is $\boldsymbol{w}^{2}$ per cent for gold and 3 per cent for alver. unchiog the charges for refing The machusery for this mont was sent out from kngland a but jex go and is complik, bint vert costly at Bomby there are no banks, as at Madras and Cakutit, and paper noney is unknown in mi reantle transactions

U enghts and Measures - The weighta and measures used at Bombav are as follow -

Gold and Sider Fraght
1 wall $=4475 \mathrm{grs}$
40 walls $=1$ tola $=1.9$
Pcarl illeght
1 tucha $=0208 \mathrm{grs}$
13. tuckas $=1$ tuchu $=1$ ruttce $=3$

24 ruttees $=1$ turk $=72$


$$
\begin{aligned}
& \text { Jbs oz dr } \\
& 72 \text { tanks }=\begin{array}{l}
1 \text { tank } \\
1 \text { seer }
\end{array}=\begin{array}{ccc}
\text { bs } & \text { oz } & \mathrm{dr} \\
0 & 0 & 2488 \\
0 & 11 & 32
\end{array} \\
& 40 \text { wis }=1 \text { mannd }=20 \quad 0 \quad 0
\end{aligned}
$$

There withto are used fur th heaty goods, extepting salt

Gram Measure

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 upprees $=$ | 1 seer |  | 11 |  | 8 |
| 4 velis $=$ | 1 pals $=$ |  | 12 |  | 12 |
| 7 pahes | parah = | 19 |  |  | 96 |
| - paralis | undy $=$ | 106 |  |  | 118 |

Salt Measuse
$\begin{aligned} 104 \text { adowhes } & =1 \text { paral }=\begin{array}{r}\text { cubic mehes } \\ 160761\end{array} \\ 160 \text { parths } & =1 \text { anna } \\ 10 \text { annas } & =1 \text { rash }\end{aligned}$
The anna welglis $2 f$ tons, and the rasil 40 tons
Lrguor Measupre for finuis and Country Arrack
The seer wetgh 60 Rombas rupees and ecpals 1 lb soa 84 dr and 00 secrs make the maund

## Loug Masure

16 tussoos $=1$ hath $=1$ Eaglush inches
24 tussoos $=1$ guz $=27$

## RIVER STEIU N IVIGATION OR IVDIA

Tue projuted raitways which in thme must be executcd, -the canals whinh have bten to sore extent ex cuted, -and the late successful titempts to navigate the mers of $I_{n d i n}$ are the great menns by the and of wheh the great sources of Indis are to be duseloped And we trust that duing the period wheh remans unevpret of the List India Company s chnrtci, the Duectors and the Board of

Cortrol, will decide upon measures, wheh wall fully justify the Parhament in renewng that charter

The Ganges, and in the intricate channels of the Sunderbunds, are now sue cesafully navigated by long, flat, strong, and remarkably buoyant iron steam vessels, some to carry goods, others passenger vessels, adapted to the navgation and chwate of Inda A very interesting account of this new mode of navigatung the Ganges has just been writen and pubhshed by Mr Albert Robinson, cini engineer, from which we bave condensed the followng passages He had previously visited the United States, and examned the steam navigation of the western waters of America, and he proceedtd to, and arrived in, India in 1843, and surveyed carefullv, the Ganges, from Allahabed downwards His friends in England, in consequence, formed an association to buld m London iron steam ships upon his suggestion, to navigate the Ganges He remaned there unth he established two of these vessels to his satisfaction on the waters of that river He says,-
"It will be percened by reference to the map, that the goods traffic to and from all the most populous and wealthy districts which he upon botb banks of the Ganges and Hooghly, between Benares and Calcutta, named Azingur, Goruebpore, Ghazepore, Sarnm, Tirhoot Purnea, Dunajepore, Malda, Pubna, on the north bank, and Shathabad, Patna, Behar, Bhaugulpore Moorshedabad and Nudya on the south bank, with a population of upwards of 15,000000 and an area of 23,000 miles, and whech nelude the ches and towns of Benayes, Duapore, Patna, Ghazepore, Buzar, Chuprah, Blullea, Mongheer, Bhaugulpore, Carragola-Ghaut, Rajmahal, Rampore Baulea, Jellinghee, Goraee, Gomercallee, Koolna, Moorshedabad, Berhampore, Cutwa, Nudya, must ever continue to be cartied upon the Ganges

The Ganges -" The country though which it flows may be sadd to be one mmense plana, the soil of wheh contains a very large port on of sand, and is of course easily acted on by ruming waters The bed wheh the river has formed for itself in such a soll is, as might be expected, tortuous or devions in its course, and of very irsegular breadth and depth, being composed of loose sand, it is kept in constant motion, and the changes wheh occur in the depth and localty of the channels are incessant The banks, two are contunually undergomg change through the action of the water undermisiog them at one place, and forming new banks at another Flats or shallows intervene with deep narrow cbannels throughout the greater part of its course, and when the river is low, smalt shallow channels or runs are formed through or across the flats or sand-bars, and in one of these channels frequently is to be found the only passage for the navigation The widh of the riper when low is from a quarter of a mile to one mile and a quarter, when high, from one to three milec, and in some places it exteods over twenty or thity mules of the flat country The depth, when lugh is in the cbannels between thrty five and seventv-five feet, and when low between three and a half and ten feet The perpendicular rise of water in the wet senson at Jellinghee is about tharts two feet The Bhaugruttee, though called a rever, is a side cbannel or mouth of the Ganges, and through which the navigation is performed in the higli-water season, the width varies from a furlong to a quarter of a mile, and during the navigable season the least depth is from three feet to twentytuyo feet Fon some months of the year at is not navigable for lurge vessels The Hooghly, which is a contauation of the Bhangruttee, and through which the navigation is continued to Calcutt?, although resembling in us general features the great Ganges, is less irregular and of easier navigation its depth is generally greater than the Gauges, and the widh of the channel is sansfactory, at Calcutta, where at is a
thal mer, it is nearly ns wide as the Thames at Gravesend The Soonderbuad, throtigh which the navgention to Cateurta has to pass in the low water seaton, are in fact, small mouths of the Ganyes, fowing to the sea through a delta of fine sandy alluval depost, covered with a rank vegetation and jungle These channels are very numerous and reticulale with each other in the most extraordmary mannt,1, like a labyrinth Then width vanes from only fifty feet to a quarter of a mile and boug onthin the tudal action thene $d$ ph is much the some at all scasons of the year and at low water is probabiy not less in the channele used by vessels than five thet then chief pecularaty is ther atethe crockedoess and sharp bends.

The sea ons are the hugh water or inundation season and the low-water or dry season the latter is unfortunately of the greater duration and extends over seven and hall or eight months of the jear say hall of October, all November, Ducember, January, Fluruary Mareh, April and Mav, and sometimes bali Jane the lowest month are April and Miry and in the other months there is a gradual decrease and merease The hogh is ter or wet season takes place on the four and a half months of June, July August, September and part of Octobet The augmenizuon in the body of water is pioduced fion two sources 1st the melting of the snows in the Himalayan mountans and elevated countr, in which the Ganges and its tributaries the Jumba, the Gogra the Guoduck, \&e bive thell sources the water derised from the snows reaches the lower parts of the roer lip June, and 2nd, the rains which fall th over the great plan of the Ganges durmy the months of June, July Augast and September By October the surplus wate has been absorbed by the thirsty soll, evaporated into the buthog atmosphere, or discharged into the sea, asul the dry or low water semson sts in From March to June, the hot acason before the rams, Nor-westers sometmes occur these gales come on very sudrlenty and blow with great volence for threc or four hours daring which great destruction is caused among the native crait on the river When the storm fust conmences the dust and sond are carred up in such vast quantities un some parts of the country, as completely to darken the ans

The course of the narigation, starting from Allahabed downwards, follows the main stream of the Gan_es at both seasons for a distanci of 580 miles, to the point where the Bhaugruttee torms a separate ch mael

- In the high-water season, the navgation is then by way of the Bhaugrutee for a distince of 138 miles to Nulya, where it enters the Ho, gilly In the Hooghly, its cours down la Calcutia is sixty-eght nules-total 787 miles
' In the low-water season, instead of entering the Bhaugruthee as above, the course of the navigation contunues us way down the man stream of the Ginger, for a dot mee from All trabad of 690 rate, to the Goraec channel which diverges to the right or snath westward, throu the Goraee and the Baisthee it puisues ito course lor 162 mifes till the detta of the Soonderbands is reached Through the crooke d and many nimed chanaels of the Soonderbunds it runs for 220 miles till it uritrs with the Hoo. hiy at Mud Ponit, below Calcutta it then ascends the Houghly wo Calcuta by the لirp cinanel, suxty mine miles-total, 1147 miles

Daring the period of mundaton the navig tion presents lew diffacultes beyond the fince ot the current, to vessels accending the river, which averages a velocity of tour mose an hour fot the whole di tance and frequenty at six and seven mates pea hour, whin at a few points its velocity reacioes eight males an hour the descuitis of course fociltated by the curent At this season there is depth of water over the shallowed pirt of tic 16 r tor a a essel of almost any draught

Forthe grt ter pirt of the ton satur or dry season, the Gunges is not navigable for
 thire, armple d pth of watu, but over the shouls and sandbars the depth varies fiom enis thee and a bilt to fac teet, and ma pirtualarly diry scason, even under thice


 "potithe sutherks from whence she is dislodeted with much exertion, and fecquently alter great loss of tine Native boats getting upun a bink or shoal at this seas.n, ond
when the river happens to be filhag, are sometimes, from the want of energy of the matwe character, left bigh and dry upon the sand by the water receduag, where they reman till the next rany season In desceadiag with the carcent, the liabilty of veasels to rum aground is far greater than in going up stream, as the ripple cansed by the bar or shoal does not discover atself so much upon the tupper scde as the lower side of the bar, and as the vessel s progress whth the cutrent is 80 much more rapid
"The velocity of the current of the Ganges is less at the dry than durng the ramy season, the average between Altahabad and Rajoahal probably not exceedrag two miles and a half per hour The only dificulcies met with in navigating the Soonderbunds artse from the nariowness of the channel and the acuteness of the uagles tormed by it These obstacles, however, apply only to steamers marming the bends The ude governs the current, wheh is sluggish, and of comse aternately flows up trom as well as down to the sea
"Notwithstandmg all the tupedumens which nature has placed in the way of the navigation of the Ganges in the lownwater or dry season, it is still even then available for carryng on the traffic of the country to an extent that the resources of selence and capitat would find it no easy task to provide a substatute for

Trajice-"At the Jungeepore toll on the Bhaugsattee, the only pont except Cilcutta where there is any return made the number of these vessels which passed was, in the year $1844-50,320$ boats, the tonnage of which was upwards of three quarters ot a miltion tons The artucles enumerated consisted of grain palse, salt, sugar indigo, cotlon, saltpetre, oul, seeds mangees, vegetables, coals, lime, firewood, straw, \&e \&c, \&c In the above, no account is taken of vessels with goverament troops, stores, or ammuntion, nor of opium
"The number of niper craft arroong at Calcutta by the Soonderbuad rivera, upon which toll was collected, in 1844, amounted to 125,000 boats, or an average of 340 per day,-total tonnage of which is alout a miltion and a quarter tons fhe rafie at these two points alone added together (which it is faur to do) amount to upwards of $2,000,000$ tons, or fonr tmes as much as the whole sea trafic in ships to and fronn Galcutta no account was taken of boats under the burden of twenty-erght maunds
"The returns from the Government Inland Steam Departmeat, in the same year 1844, gase thity-ane voyages, carryiog 45,500 packages of goods, besdes treasure, and 2,000 passengers, and bhow a return of upwards of 56,0004
"From Mirzapore, a great mart in the Ganges, it is reckoned that 18000 tons of cotton, 2000 tons of sugar, 1000 tons of galtpetre, 1500 tons of indigo, and 1300 tons of shell he and lac-dye, are annually sent dowa to Calcutta, whist there is recelved at Mirzapore from Calcutta, vearly, 8060 tons of metal and hardware, 5000 bales of twist, 3000 packages, Britah silk and cotton goods, and 10,000 packages of other prece goods
' The far greater part of the enormous traffic on the Ganges 15 carned on by means of the mative craft
"The native boat is a strange, rudely conatructed craft, the roof thatched with bamboo zod straw These vessels are from five to sixty tons burden, then length being froma twenty-fise to manty feet, and beam ane to twenty-enght feet, with a draught of water of eighreen nuches to five feet They are managed by a creso of sia to twelve men, who allow them to drop lazily down the stream, perhaps with a little ud rom a sal and sa ascendag use the san, the oar, or, when the wind fulc, drag them with the trick has attached to the mast, the men walling along the bank of the river Tbey are geoerally very leaky, and the cargo almost dilwass suffers more or less from the leakiness of the boaf, the unpurfct protection from the weather afforded by the roof, or the dishonesty of the crew
"They descend from Allahabad to Calcutta, a distance by the mer of 800 males, in about twenty days daning the wet season, and from forty to sixty days during the diy season, stopping generallv at night. The ascent, occupvog from three to tour months at all seasons The lighter class of boats do it in bout one fourth less the tume They are subject to such casualties as getting aground, beng wrecked, and sunh by the North-
ucst is overseiting to the rushes of the ner from mismanogement in tracking them up, and to the thateh roof tabing tre and destrovin, the cargo Thece are the vessels by whech the Gany, $s$ has been navigated from tue immo monal, and no improvenent would apment to hive taken phace in them Pretious to the introduction of Luropean commerce wad when the articles requing to be transported were of a less valuable, and some of them of a less perishabie nature, they ansucted every purpose since that event, the requrentents of the traffic have changed constderably, and experience has proved that nutwhatanding the low trost cost of the natue boat and the mind expanse of na$W_{p}$ xiln, them and consequendy the low rate of filight, the conserance of goods up the Gane es iv them is buth expensme and unsatistactory whine that of such produce downards as indigo, suga, and cotton, although less so, is still greath and justly complaned of The losses by peculation heve been contunualis on the merease of late years, and the dergegate of this alone must be enormous, whilst the uncutanty and arregulanty of arriv if is such as to set at nought any commeremal calculation Passengers are also contesed hy nanve bonts named 'budgerows' these are procepally used by the Euro. prans und the rich natives, and are comparatively few in number They take nearly the came ume to pertorm the soyage as the lighter freaght boats

Indian Government Steamers.-"The Honourable Last Inda Company, with thens usual real for the mprovement of the country, very early sanctioned the introduction of steanboats on the Ganges Captann Johnston, the present comptroller of goveinment stant vessels at Calcutt, and Mr Peacock of the India House in London, took an active part in this matter Captain Johnston brought the first steamer ever seen in India round the Cape named the Lnterprose, and afterwards organsed the government hane of steamboats on the Ginges
' Under the admunstration of Lord Willam Bentunch, in 1834, the steam traffic of the river was greats developed by the establishment of a rcgular hat of steamers for the convevance of government stores, troops, passengers, and merchandise But although the goomment of Indin thus led the way, it was understood that it was not intonded to discourge or restetct pritate enterprise

Coal had then been disenvered in seviral places, and at Burdwan, sixty-thrie miks frem Calcutta mines had been opened and worked This coal is, however, not so good as Brash coal, the estmation beng that it is only equal to seventy five per cent of Nencistle coal but it is highly probable that as the pits are deepened the quality will nom rove The Burdwan coal is now brought to Calcuta by the Damoode river, at a cost of tecoty shthongs yer ton, and to other places on the river at prices varying foom emhicen to tixenty seven sluthags per ton The price ot Enghse coala at Calcuta is from lurty to thetr-three slullings per ton

- The system of steam navgration metroduced ind contmued by the Indian government, is that of placing the goods or passengers in small stparate vessels, and the steam engme and roals 111 another, which tugs or tows the cargo-boat or passenger boat as the case $m$ ty be The steamers or 'steam-tugs' are generally of uro, and about 120 feet lony twenty-two breadth of beam erght feet deep, and draw, when full, conled, from three to four teet of water. The engines are trom torty to ninety nomsal horses' power, and of excellent wormansup The stemers are in tact sumblar to what were ured on the Thames a lew years ago only shallower, and of fuller build The vessel in which the passespers are placed in termed an accommodation boat' It is of smilai dumenslums with the stcam lug and is fitted up with passengers cabens and a cuddy athwartsinp divedug them it canies only presengers and specte, and light pach iges and parcels The thei, hat-boat, or 'Hat, is also of the same dimensions as the stcam tug, viz 120 feet leng and tweuty two feet beans, and drass, when loaded about three feet it has crbins for the captan and ship $s$ othicers only and tohes no passengers

Onc only of these ressels is tugged or drawn by the seamer at i ume, so that the tren he me the pussugers are never coneyed together by the same stamer

The ta in vessels are hinked to each other at the bows and stern bs a flat beam of Wion whichacte as a hange, and serves also the purpose of a plank for the ciew to pass tion sue vessel to the other When this syetern was mintroduced in India, there existed
no examples in thas country of stemmers carrying cargo upon a light draught of whter, and as carrying power was a sine gut̂ non in the Ganges, the plan adopted of double tessels was a very natural one Besides, it seemed to present other advantages, sueh as the following 'in case of getung aground, it would be easter to get off iwo small vessefs than a large one, the the sharp turns or bends of the Soonderbunds, they could more casily wind their way through them than a long vessel, \&c, the groods and passengers would be safer and cooler in a separate vessel, The freightwcarrying power of the cargo boat or flat is not, however, very considerable, the range is between sixty and one hundred tons of dead weight, varying, with the season or depth of the river This weight of metsurentent goods (that is of articles the byik of a ton weight of which exceeds torty cubse fect) will of course make a great deal more tounage upon wheh freight is chargeable The capactity of the accommodation boat for passengers, owing to the large spe e deemed necessary for a cabin passenger in Indta, is someshat limited, the average being cabus for sixtecn passengers, with their servants, \&e
"The steamer or tug, ant the yessels for hehot and passengers, have each their own captain, officers, and crew, and the steamer has, of course, in addation, th engineers, stobers, \&c
'The speed of the goveramert double steamers varies considerably, those of recent construction being the fastest With an average cargo and the usual coals on board, the velocty of the slower ones througit stiln water is probobly six males and a hatf per hour, that of the faster, seven miles and a half per hour When gomg with the stream, the veloety of the current is of course to be added, and when gong against it, to be deducted from the velocity through still water, thas $m$ a current of four miles an hour it wond be eleven mates and a hatt in one case and three and a hallin another I tke the native bonts, steamers are obliged to stop runnmg durneg the dark of night In the dry season, the average passage up is trenty four dajs, and down fifteen days In the ratns, the average passage up is twenty days und down emght days Or during the dry seasan of fifty miles per day on the upipaid, and enghty miles per day upon the downward passage, and in the rainy period, of forty miles up and 100 miles down The number of voyages made annually by each, has been tue uly six In 1844 there were seven government steamers with their accompanying vessels, kept in actipity This number has s nee been inereased by two more, specially adapted for troops
"The rate for passengers was fixed at $30 l$ per cabin passenger for the whole distance, notincluding provisions, the passenger providing his own bedstead and bedding, accordmig to the castom of India
"The earnings of the government steamers, it is understood, have pard ther cost many times oser They have unquestionably answered well in many respects
"As to the question of the desirableness of the government keeping up a steam flotilla on the Ganges for the convevance of troops, military stores, and treasure, it will be at once conceded, that to carry on the general steam traffe is not the proper busmess of the government The field is far too cxtea*ive for the government to attempt to occupy it

Objections to the double vessel system -"The first is the slowness of the performance of the steamers Fifteen days taken for dong a distance of 800 miles whth the strean, thit is eighty males per day, and twenty-four days againat the stream, or fifty mites per day, must nppear meredibly slow

* 2 The double vessel or ting system is masteful of power the resistance of water to vessels propelled through it is cheefy at the bows and stern, and not much at the sides of a vessel, where it is only that due to sumple frition There is consequently far more resistance than there would be in a single vessel of the capactly of the two Now as wastefulnesa of power is the same thing as waste of fuel,' and as that is the chef expense in all stenmers, and emphatically so in India, this is a weighty objection
" 3 The force of the current in the Ganges, as already observed, varies greally from place to place, settong dowa round the points in the bends of the tiver ma rush of six or eight males per hour, whie below the points the carrent may be running only two or three miles an hour, or there may even be a counter current or eddy setting upwards When the donble vessels meet these unequal or opposite currents they frequently become
unmanageable in spite of the greatest exertions of the helmsmen and erew of each vessel, fall foul of each other, and are driven at the mercy of the cursent sometimes a distance of four or five miies down again before they con recover themselves. At some of the 'rushes' of the river round the points during the high-water season, they are unable to pass up without the further aid to the machinery of bullocks and men, tracking along the shore with lines attached to the steamer.
- "4. As to the presamed netessity for short vessels in the Soouderbunds, it did not appear to the writer to exist ; and the double vessels, owing to the impossibility of steering them with precision in such places, notwithstanding their shortness, frequently strike against the bank in the sharp turas of the Soonderbund channels.
*4. The advantages of the separation of the passenger vessel or 'accommodationboat' from the steamer, is probably in some measute counterbalanced by its being elose behind, and receiving some of the products of combustion from the funnel of the steamer and the heat of the engines.
*s. 6 . In the rajay or high-water ceason, as bas been shown, there is plenty of depth in every part of the Ganges, and it would then be very desirable to lue able to load a large extra eargo; but the freight vessels in question, from their amall size, admit of this to a amall exient only.
"7. The expense of maintaining a nearly dowble personal establishment of captath. officers, and crew, which appeara to be necessary upon the double vessel system, is a considerable item.

Netp Systern-" Up to 1844, no attempt had been made by private parties to follow the example set by the East India Company. In that year after Mr. Robinson commapicatng his views, a company was formed for establishing and running a tioe of iron steamers upon his plans for conveying freight and passeugers between Calcutta and Athahabad or Mirzapore, and to which was given the name of the Ganges Sleam Navigation Company,"

Thres stcamers afterwards made to fuel on a new plan, for great spead and for the carringe of goods, were built for this Company, of which Mr, Robinson gives the following description of the first steamer, named the Patna, as actually constructed, and the second, named the Benares, as identical with the Patna.

General Arrangoment of Vessel, Engines, and Cabins -"The hull below the main deck is appropriated to cargo, with the exception of the space occupied by the boilers, ond the condeusers and air-pamps of the engines. The main deed projects over the sides all round, taperiog in at the bows, forming 'guards' which increase the room on decke The engine cylinders lie horizontally on the main deck. The saloon and cabins are also placed upon it, 'forward' of the engines and boilers. Over the cabius, and extending nearly to the stern, is a light promenade deck, and the part of it for cabint paseengers is covered by an awniag.
"The frame and deck beams and paddle-box frames are of iron, and the sheli of iron plates; the main cleck is of waod; the cabins and the promenade deck over are entirely of wood; the length is, at load water line, 195 feet; the beam or breadth of hull ia twenty-eight feet ; the extreme breadlh orer paddles is forty-six feet nine incles; the

- The agitation of tie question about the same tiane by other parties had the effeot of drawing the attention of some of the Caloutia merchants to the subject, who got up another steamboas company, raised a capital, and ordered their steamers from London, It was named the "General Inisand Steam Navigution Company,' and is perfectly distinet from the association whose steamers form the subject of this paper. Tuis company's ateamers are upon the tug tystem, but differ from those of the government in being of greater power, and being intended to tug or tow two small carga vessels at once, the passenger cabing being on board the temmer. The nanes of those which have treex put on the line are, the Sir Herbert Maddook, the General M"Leod, and the Sir Fredemink Curvias the second of these was, however, unfortumately lost in the Hooghly, and the conm pany have recently purchased the Assam Tea Company's steamer, Aisam.
depth of iron ball is ten feet three mehes at the engmeraom, and the rest of the hull, seven feet nine inches the botton or floof is nearly flat, rising on each sude only sufficient to throw the bige water towards the keel, the bows are full, but with a good and fine entrance, the stern is as full as was considered admissble, and is in character with the hows, the mean angle subtended by the bows 18 thirty-two degrees and by the stern fifty four degrees the 'parallel bodv' or midship, withont curves, is one-thurd of the length of the vessel, the tormage of the hull, exclusive of cabms and upper deck, boulders measurement, is 400 tons, the enture cubic contents of the interior of the hull is 38434 cubtc feet the machinery and coals occupy a space of 12,800 canc fect, lewng for cargo a space of 25,634 cubse feet, or 641 tons measuremunt. The 'displacement, or cubic contents of the immersed body or hull, and the weight of water displaced, or carrying power of whe vessel, is, at each six mehes draught, from two to four and a hall feel, as follows -

|  | feet |  | naches, | 12,812 | cubuc feet | 三 905 | ong |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $2 \cdots$ | 6 | $\cdots$ | 16625 | \% | $=266$ | " |
| 3 | 3 | 0 | n | 20.300 | * | $=328$ |  |
| 3 | 3 | 6 | " | 24438 |  | $=391$ | , |
| 4 | 4 | 0 |  | 28437 |  | $=455$ | \% |
|  | 4 | 6 |  | 32437 | , | 三 519 |  |

${ }^{*}$ There s no external keel, it is replaced by an internal one, or keelson, formed of a light hollow iton beam, 2 feet deep and nine inches wide and which is riveted to the mner frames of the bottom of the floor Between this keelson and the ron deck beams, and rivered at their upper and lower ends to both, are light stiff stanchions of roo, which have the effect of both trusses and tres, binding the floor and deck together The sides of the vessel are vertical, and the ron frames which run up to form them hisis it the gunwale in $\geqslant$ strong cornice, formed of angle iron and a narrow plate The heads of the ftames, the upper edge of the top strake of plate, and the ends of the iron deck beams are thus all riveted together The powerful connection by thas means, formed between the bottom of floor and the deeh, both by the sudes of the vessel and the midshap trussing, constutute the entire hull into one large hollow tron bean The sides themedves are, for the thord of the vessel s length amidships strengthened by duagonal ues orossing the rus or frames at an angle of forty-five degrees, and riveted to each rib Alt the ron in the frame, floonng, and shell, is of light scanthigg, but of a quality and make giving the greateat tcnacity and strength
"The paddle boxes are bust upon the ends of two light hollow ron beams, which cross the vessel under the deck and proect beyond the stides for the purpose, as well us for supporting the engine bearers The padile-boxes are framed of angle aron
"The rudder is twelve feet brond, and is worhed from a point at the back, instead of by a tiller
"The rudder chams lead to i steerng wheel placed near the bows upon the upper deck, fiom which positon the helosiman and pilot command a view of the river and of the best course
"The deck plank and covering of paddle-boxes are of teak nood, the former beng only one meh and five eighths thick they are fastened to the deck beams and frumang of paddle-boxes by wood screws
" The enture weight of the vessel with padile-boves, and exclusive of machmery, cabins, and stores is 142 tons

Steam Engrnes -"The engines are medium pressure condensing, unconnected, and of the nomnal power of 120 horses

Cabany - The saloon and eabina for first class pessengers occupy in area upon the main deck forward of the engines hifty four feet by thirts-iwo teet and wand ef, hit fect bigh the saloon is forty feet by fifeen feet, and is placed lengithwise the end opennt: towards the bows Thete are twelue provate passenger cabms, averaging none feet by seven feet six thehes The promenade deck ober the cabtas so contunued over the engome
 cabins, and a large space for light goods or carrages, horses, and detk passerigus The enture weight of the cabins and promende deck is twelve tons
"The weight of the vessel and paddle-boxen has been stated to be 142 tons, the engines, boilers, and propelling machioery and engine bearers, 106 tons, and the cabios and uppers deck, twelve tons, making a total of $\mathbf{2 6 0}$ tons, In addition there is to be taken into calculation the water in boilers, twentroone tons; fuet for twelve hours' steaming, ten tons; sundries, furniture, stores, dec., fifteen tons, making the working weight 306 tons This weight requises an equal displacement, and which is obtained by an iunmersion of the hull to two feet ten inches. All above this will be the carrying power for cargo. Thus at three feet six inches she efarries eighty-five tons; at four feet, 149 tons: and at four feet six inches, 213 tors 'desd weight' of cargo. The carrying power for cargo is of coutse dimisished by the passenger carrying ficcommodation to the extent of the weight of the cabins and stores, shown above to be twenty-seven tons; and without these the working draught of the steamer would be only a fraction above two feet seven inches,

Mode of Construction,-"The iron ressel and the engines, which together form one of these steamers, are bath designed in all their details by the same firm, who, being iron ship-builders as well as engineers, were enabled to produce a combination of the nature described. Each vessel and pair of eagines were constructed oimultoneously at their establishment; and when completed, the eagines were fitted on lioard the vessel on the stocks; every thing was put in place, and the angines worked, to make sure that there would be nothing to fit or do to them abroad. The parts of the engines where they were joined to each other and to the iron wassel were then marked, taken asunder, and packed up for the voyage. The whole work of the vessel was then painted in the insjide four different colours, each quarter being of one colour; and the plates of the shell and the ribs, as well as every piece, were marked with paint, and stamped with letters and numbers, to facilitate and insure the correct putting together in India. The vessel was then taken in pieces, and the whole carefuily shipped and stowed on board a ship of the ordinary size, bound for Calcutta. Accompanying the parts was sent accurate drawings of the whole, and a model of the vessel, painted and marked exactly like the original, Upon arrival after only a four months' voyage, the parts were landed at the estabishouent of the 'Ganges Stean Navigation Conpany,' near Calcutta, the iron vessel put together in a dry dock, decked, and floated out. The work was performed chiefly by native mecluanics, under the superintendence of the writer; and the first stenmer was put together in only nine weeks from the day of landing. The engines were then filted in, and the cabins put up, of teak wood, to the working drawings. The whole was completely fiashed and the steamer fitted out and started on the trial trip in a fittle more than four months:"

The "Patra."-"Upon trying the engines, they were found to work with even more amoothness than was articipated; the cranks went over the centres freely, and the reversing, stopping, and starting of each engine separately was performed by the link motion with the greatest ease and promplitude. The boilers were found to generate steam enough with the Burdwan coals, and easy firing. There was no perceptible vibration in the versel from the action of the engines. The time taken for a distance of fifteen miles down the Hooghly, against the flood-tide, was 1 hour 34 minutes, and back again to the phace of starting, with the tide, 1 hour 0.3 min.; more than eleven miles an hour. The steamer was by the action of the engines made to turn round in her own length several times. The steerage by the radder was hardly as quick as was antir cipated, but this was afterwards remedied.
*The Friend of Tudia newspaper, of July 2, 1846, observes:-"The next day, the Pudua steamer, the firat vessel of the Guages Steam Naxigation Company, was launched without noise or parade. She is the most maguificent river steamer ever launched in India, and has been put together in the short period of two months and five days. The conmencement of these improvemests in our internal stean cammuncation atter a pause of nearly twelve yeare, during which we have seen the zuath of the old adage exemplified, that not to advance 13 to go back, will form a neve era in the history of stama in India. Sindar the competition of privase enterprise, we many now look formari to an increase of speed, and to snch a dimisution of expense is shail place the husury of stsamens wibinim reach of the commusity generally, and take up the commercial freight of the councry."
"Upou the 28th of September, 1846 the Patna took on board upvards of 200 tons of measurement goods, six carriages, and five horses reckoned to wetgh 140 tons dead weight, twenty tons of couls, and thity five passengere,-total dead weight ind tons Her mean draught of water was then 4 feet 5 nehes thas was a 1 ugger cargo than should have been taken upon a first trip with an mexperienced captan, and at a period when the rever was falling rapidly The destination was Mirzapore, 706 inles above Calculta, and eighty six below Alahabad The river was then high with a strong current, so that the Soonderbunds were not resoted to and the short passage by the Bhaugratiee was taken The passage was, with the exception of grouading several tmes, performed mont successfully - the "hauling off gear effecting at once the $e$-floating on every Decasion but one, when, through mismanagement, the steamer stack fast for three days. Notunthstanding this untourd event, the Patna reached Mirzapole on the 13 th of October or fifteen days from Caicutta passing four government steamers The avertge tume of the government steamers up, in the month of October is stated offictally at twenty two days
"The downward passage was performed between the 16 th and 20 th of October, zea the dreaded Soonderbunds, and the entire vojage thus done within a month
"The second voyage of the Pabra was perforned both up and down by the Soonderbunds and without any meident beyond oceasional grounding *
"The Patna continued to perform successfully her voyages between Calcuta and Mrzapore, under the conmand of her hrst captan but did not attan the expected shortening of the time till the soyage commenced upon the 20th of June, 1847 under a new commander She then, witha full cargo on board, did the upward passage by the Soonderbunds route in twelve days, and the downward passage by the Bhaugruttee in stx days and a half, and was only twenty days and a half absent from Calcuta
"This performance is recorded by one of the public journals thus -
" We find that we were merror the other day when we assumed that the period of twenty days and a halt in which the Patna steamer made her last trip to M reapore va the Sionderbunds and lack through the Bhaugruttee, treluded only the time spent on the actual passage It moluded, we are now informed the entire time of the vessel's absence from Caleutts,-1oyage, stoppages, detentions, every thing -Bengal Hurkaru, July 20, 1847
"The succeeding voynge of the Patra affords evidence to the same effect as it was done in even still shorter thine, namely, metcen days, -tt is nouced by another recorder of passang events, as follows -

[^24]"The dumn trip of the first vogage of the Bemares bv the Soonderbunds was done it nine $d n s$ oi seven less than the averuge of the povermment stevners io March "
"Duna the rest of the dry se ison, the $\bar{B}$ wares performances were equally satsfictori maing her voypges to anr' from Mirqupore witha a month ench

Upon the return of the wat seavon (June, 1947) when the direct ronte by the P loucrutlee was tiku both wass her true nas, up to Mirfapore thelve days and a his and down five dise and a guartpr,-absence from Calculta, wenty das, meludang din ations and stoppares to cond \&e

Is th ste mers lianc stnce the abose period till the date of the latest accounts been rexul ich plamy on the Gutece, curryng passengers and cargo fhey buse met with no
 clusion that the sucess of the principle as complete
"The chunat - The hard steamer to of prectselv simathr form and dimensions, and
 there te conseguentivy no cabins but those tor the eaptan and offeers she haq nonconden me engev of 140 hor es power Both the vasel tad her machnery are lighter than the Patna The weyghts are as tollow

The vessel 136 tons-the engraes and bolers efghty fise tons -total 221 tons D ausht withow water in bohtres, conls or cirgo, two feet one meh and a baif

The 'Mirapore and the ' Ghazepone' the fourth and fith steamess, being exactly alke mo dimensions and power, and nearly ablike in other reapects a refereace to onc will apply with suthenent exactness to both It will be observed that they are a great deal Jureer thin the Patm and the Bewares

- They are designed for carro only-eabins for captuns and officers, and protection for carrages and horses, and $h_{\text {h }}$ ht grods on deck

I he dimensions of the Mirzapare ale
 overpadic, staty sin fut diptis amd lap, ten teet

II an and was at Rajmobal on the 9tb at 220 F м We extract from the publabed notices of our river fluct the thase in whelt ths distance has been done on the last upw ird ruyages in Juniary -

| Sutleche (Government stemmer) | 11 days |
| :---: | :---: |
| Hadd ch (Inland Compharys steanmer) | 11 |
| IH Leorl (dicto) | 13 |
| Dewares (Gantss Company s steamsr) | 5"' |




*Fom the Rencal fiu karn Juty 901847 The Benares steqme performed the pas-ge to

 ward trip tive din sud thrce hours absent from Calchits on the yoyage meneen days and thrice quarte) including all stoppages


 ewir bot she wort up the Bhangrutee white the fates went through the Soonderbands The
 biric bours frum Mire y or to Calcuta
 formod the lo tanc 1 then thizzpore and Chumar therty three miles man hour and tbity
 tann th plendad veatls, anerally reach Calcuta belore their depurtare from virzapori is samatiod hefl
$\dagger$ \& hata it thous matre Ine triptrath, bappened to the goyernment steamers and


sThe displacement is at each six mehes draught of water as follows

"The measurement of the hold for cargo is 54,000 cubic fuet, clear of every thang or 1350 tons sneasurement.
"The weight of the vessel alone, meluding pardde-boxes and dect-honseq, without machinery, is 224 tons, the werght of engneq; boilers and paddle propellers is 134 tons, consequently the entre steamer complete weighs 358 tons and the lifht mmersion or drausht without water in the bolers, or coale is only two fiet two mehes Thece steamers possess great carrying power, mmeose stowage for cargo, are lighter in propo ${ }^{-}$ tion to the size than the Patna and draw less water
"The chief difference between the deston of the iron oeswl and the patna consists m the deck beng convex, or curved upwards transwersely like the back of a violou, and in the b, actag or trussing between the deck and the bottom or 'floor of the veasel bemg in the form of a diagonal latice work, matead of verlical bars or stanchmons, as in the Patna The curvature of the deck was admissble from the absence of passenger accommodation or cabins, and the dragonal framing or 'spue was admissible from the ctrcumstaves of the engines being aon-condensing, and entiely above deek
"These three steaners, after being completely fitted with thear machoery on the bunding-yard in London, were sent out to linda in parts, in the same manner as the Paina and the Benarer They are all except the Ghazepore, now (April, 1848) launched on the Ganges
"The Mirzapore, at the public trial which tooh place on the 24th of Janurry, 1848, proved perfectly manageabie, and steered well, notwthstanding her great sye the speed was fully equal to that of the Patna, and close upon twelve miles per houe
"She started upon her first voyage on the 3rd of February, when the river was extremely low and unfavourable to navigation, ladela with 230 tons werght of cargo and coals, taking the Soonderbunds route On the 6ith of February, she had pissed through the Soonderbunds on her upward voyage in the most satisfactory manner, and reached Dinupore or Patna in eleven days from Calcuta* Thus, under all the disadvantages of a first trip, and the bad state of the river, performag thrs dostagce a fre days less than the average tume of the government steamers at that season
"The new steamers put upon the Ganges up to the present ume consist as has been stated, of-two of 120 horses power each for passengers and carco one of 140 horses' power, for cargo only, two of 250 horses' power each for cargo only
"The total cost of the whole hee steamers completed and started on the Ganges, ex clusive of spare botiers, dec, and of interest upon the capital employed prior to the steamers comar into actipty, does not exceed the sum of 96,000 , whuls is made up thus -

| Steam-engines (880 horserpower) | $41_{800}^{f}$ |
| :---: | :---: |
| Vessels, cabins, dic | 39,686 |
| Cost in London | 81 186 |
| Trasportation to India | - 875 |
| Re-construction and equipment | 9199 |
| Cost on the Ganges | 96560 |

[^25]To which perbaps should be added interest for an average period of eighteen- months upon a part of the sum, say upon 55,0001 ., and seven and a half per cent per annum, 6187L. This would make up a sun of 102,747 l. No preliminary expenges or charges for the 'direction' were incurred. De it observed this is mo mere estimate, but the actual cost of the thing done.
" The charges of running these steamers are made up of items as nearly as possible like those incurred by steamers in this country; they may be classed under the heads of 1 st. fuel ; 2 nd , the personal establisbment (or the salaries and wages of the commander, engineers, officers, and people on board) ; 3nd, stores and provisions; 4th, repairs; 5th, anoual depreciation; $6 \mathrm{hh}_{\text {, inserance }}$ against lass and fire; 7h, management. The experience had upon this subject, not being as yet sufficiently extended, nor the time suffir cient to bring the arrangements into that order which results in economy with efficiency, an attempt to exhibit the total ebarges would be oniy likely to mislead.
"The tem of fuel is at present a heavy one (about 350. each vayage of the Patna); there as, however, little doubt that in another year or two coals will be delivered on board at a lower price. The cost of the persohal establishoment of eachs steamer is, even at its preseat high amount (about 1481. each voyage of the Patna), much less than the steamers ou the tug system.*

Concludine Rmarks.-Pilot Service on the Gamged Navigation.-"The unstable nature of the bed of the Ganges, noticed in a preceding page, is a great impediment in the way of obtaining an eflective plot service ; but in the Lower Mississippi, although there is a greater depth of water, it is nearly as changeable, and yet we fod a river-pilot servire of the most efficient kind. Three things combine to produce the difference; on the Mississippi, tundreds of steamers have for many years been plying; the pilots are men of bigh intelligence and generally of education, and they are regularly trained to their vocation, and do nothing else; whereas on the Ganges, until recently, ondy five or six steamers have been on the river; the men who act as pilots to them are not even of the most intelligent class of natixes, and they have neither been trained to the business nor do they follow itregularly. The consequence is, they are merely pilots in name, and the capian of the steamer is virtually, in most cases obliged to act as pilot bimself. Notwithstanding the sapulity of the ehanges that take place at particular seaspns in the bed of the river, pood pitotage would be almost invalaahle. A higher class of men must be attracted to the service by better pay, and the stimulus applied to keep up attention, of prizes for the greatest amount of good service in each division of the river.

Improvement of the Navigation.-"When it is considered tbat a steamer that can carry only uself st eyo feet six inelust draught, shall carry 200 tons at three feet six inches, 400 tons at 4 feet six inches, it will be percenved that the last foot is worth the other three and a balf. A consequence flowing from this is, that with the first-named draught of water, the ateamer, if dependent upon freight, could only be rum at a loss; with the second would probably pay a proft; and with the third would return a large proft.
"But the advantages which would result to steam nuvgation fiom a greater depth of water of one and a half or iwo feet, in the present shallow parts of the river, do not stop liere; a better form might be given to the freight steamers, so that less power would propel then at the same speed; and less power of course implies a lesser weight of machinery and fuel, with a maller expense of ronning. The rates of steam freights might be reduced and the sphere of uttity enlarged. Fassenger steatoers of a speed of sixteen or eighteen miles an bour, with spacoous and elegant accomoodation for a hundred passengers, and which would, with a good plot service, perform the distance up to Allahabad in from five to seven days, and down in two and a balf to four days, according to

[^26]the season, might be introduced on the Ganges The traffic by the native boats, too, would be greatly faclitated
"The importance of increased depth, thus shown to be so great, natumily leads to the inquiry whether it is practuable to obtan it, and if it be practicable, whether at an expense that could he met
"It has been already stated that the bed of the river is composed of sand, the exceptions (of which there are fess) do not affect the queation, because there is abundance of depth over the hard parts of its bed This sandy formation, which is the cause of the evil of the extreme shallowness, affords factithes for remedying it, and the deepening of the chmonel where necessary without permanent or costiy engineening works, is a ta-k which the atuthor believes to be perfectiy practucable All that is wanted is to and the slow but certan powers of Nature by the application of scientific sktll and practecal experience combined whe the cheap labour and the simple means and applances already in evistence in India, and with, in some place, the stean-engine apphed to machmery afloat
"The pritriples upon which these views are based are, 1st, that the water of the Ganges hoids in suspension the fine sand with which it forms the shallows, the bars, and the banks, 2nd, that just in the measure that the water is kept in agitation, (whether by the natural action of the corrent or other means) will it hold wore or less of this fine sand in suspension, 3rd, that wherever the agatation exceeds a certain derree at any spot there the water is deepening, and wherever at anv spot $a$ is mons this degree of agilation, there the water is shoaling
"In the mouth of April (the worst part of the diry season), in 1847 at a place a few mules tbove Bennres, the water had gradually stallowed to 2 feet 6 inches Upon this shonl several of the government steamers, as well as the new steamer Bonares, stuck fast and met with much detention before getting over Being near a mularary station, the officer in command of it took great interest in the proceedings of getting of the Benares and after she bad passed down, he on the most spirited manner (actme upon the writer s suggestion, that some good result might be produced by manual miterposition) collected a number of natives whom he directed so skilfuliy to disturb the sand at the bottom of the water with pointed poles or bamboos, that in a few dass so much of the sand had been carried away by the current, thit a channel through the shoal of four feet and a half deep, and amply wide enough for a steamer, was thus formed This cluannel then remained open during the rest of the dry season, and the steamers passed through it without onee grounding
"It is perfectly curious to observe, as the writer has oflen done, the way in which any slight artificial olstraction, such as even a pole stuck anto the bottom, or parts of wrecks of native boate, colleets sand about it, and produces a minature bank or shoal, we effect of which is, of course, to obstruct the passage of the water at the spot, and to force it to rum at a greater velocity on one sude, aud consequenty to deepen the cbannel there
"The means of effecting the contemplated mprovements nould not be uanting they may, indeed be sad to exist already in the tolls collected on the boats pisamy though the Bhaugruttec to the amount of 16,0001 , and through the Soonderbunds to the amount of $17,000 l$ per annum, and even additonal tolls woutd be readily and freely pand both by the native boat, and the sleam trathe for real improvements in the navig ition but, as already observed, permanent and costly engineering works are not necessary and it is belteved the outlay required would be very moderate, whist enorinous good to the country would be the result *

Statfuent of Traffic on the Rurers Ganges and Hooghly, from officially authenticated Governmint Returns


## MISCELLANEOUS STATEMENTS

Commuvications with India-A fleet of splendid ships, built in the docks of the miver Thames, the Tyne, Mersey, and Clyde, belongrag to puvate buildcrs and shipowners, have replaced the East India Company's fleets, and carry on a much greater trade than the lattet ever did betueen the Unted h ingdom, and countries east of the Cape of Good Hope Those shups, built with several decks, cariy passengers and merchandise of all kinds (See Tables of Navgation, \& , with Orrental Countries, in a former part of this work)

Steim Nayigation with I dida - The enterprise carried forward on a magnificent scale with superb steam ships, by the Oriental and Peninsular Companr, from Southampton to Egypt, and from Suez, by the Red Sea, to India, Ceylon, Singapore, and China, has rendered the communcation with Asta wondertully short and certan in regard to tume, and there is no doubt that sterm communcation with all parts of the Last, as with every part of the world, whll mpidly ancrease and, gitat as it now is, will yearly acquire more power and mporlance The East India Companys steamboats, which were not at first efficient, have been replaced by steamships of a superior character

Thl Red Sea Passage - The length of the Red Sea, from the Stuats of Bab ol Mandeb to Suez, is 1200 mles, its medum breadth about 150 mies, and its dircction nearly north north west, and south south east

Its coasts on either side are fringed with coral reefs, which render at dangerous, 1 in navgating it, to approach near its shores, but otherwise it does not appear to br of more difficult navgation than ans othei narrow sea In the southun pait of $1 t$,-sut fiom the Jatitude of Jidda to Bab el Mandels, beng about whe h if of its whole lensth, - the southenly monsoon piedommates nearly two thads of the jear commencing in October, and ending in May or June The northoly winds then set in, and contmue about four months,-say June, July, Auzust, and September

Outside the Red Sea, in the Gulf of Aden, the wind generally prevails from the eastward for six months, sav from October to May, and from the westward dumng the other part of the year

In the northern part of the sen, fiom Jidda to Suez, but more partucularly near to Suez, the prevaling winds for nme months of the vear are northerly, and in the months of June, July, and August, it is very difficult for sauling vessels to beat up to Sues

In this part of the Red Sea, sontherly breezes are at all tumes but of short duration

The best tume of sailing from Suez for India, \&c., is about the end of August, which will enable vessels to clear the Strats of Bab el-Mandeb in September, before the easterly winds commence in the gulf outside

Raisuays No country more than Inda naturally requires, for the develop ment of ats resources, the construction of ralways None of those projected have as yet been commenced We trust that this neglect will not contmue long, and that the company or indanduals will mmedzately commence raitway operations

Nobth wist, and Newly-acautred Territories-These extensive regions ought to afford new openings for commerce, and, under Bntish rule, will no doubt acquire importance as places of trade The obstacles are those ton generally common to Indis-the duficulties of internal transport But the new and projected stram vessels, adapted for the navigation of the Ganges and its branches, and even for the Indus and its branches, and the completion of canals and the Bombay rairoad, would open thoroughlv to our commerco these ferthle and spiendid regtons

Indian Statistios -The Supreme Government of India has turned its attention earnestly to the collection of more correct statistical detauls regarding the different presideneres and dependencies, and the following circular has some tame ago been issued to its afficers by the Court of Drrectors, and which we think may be of interest to some of our colonies.-

Our Governon-General of Indua m Councl.-1 The great practical importance of statistical mquirics, and the attention whach they nosy receive from che most ealightened Europeau Governments, have anduced us to take measures for investigating the statisucs of the countries under our administration, and for arranging and preserving to a form conventent for reference the information whech may be attanuable
" 2 With the vicw of uecomplishing these ends, we have formed a statistical department in onr home establishment in wheis the requiste noquiries will be condected, and the materals thereby obtained elassified and compared

3 The voluminous records and dacumonts in our possession contain a vast amount of shatistical information, and the labours of the get department will in the first instance be directed to extracting and rendering it svablable for reference these duthes, whels have alrody commenced, will continue for a long period to clam a large share of the time and attention of the department, but the resuits will be mperfect ualess lay the co-operation of our Goverataents in Inda io collecting and transmothing statistical intormation we are enabled to remedy the
defects, eorrect the inaccoracles, and as the condition and circumstances of all countries are in many respects constandy varying, to note the changes oftich timg or other causes muy prove.
4. We do nat denbt that our serwants will cheerfilly afford their assistance for these purpreas; and as the sid which they may render in this reapect is not intended, and must not be permitted, to inserfere in any degree with their ordinary duties, no detriment will arise to the public service, but on the cobtraty much advantage may be expected from the transanission home wf such informstion as to local details which so many of our servants cannot fail to possess.
" 5 . Isformation will be most disirable on such subjects as the following : -
"Land.-Area-Geological structure-Natural aspect-Soil-Atmosphere and Climate-Pro-ductions-Mades of eultivation-Priess of prncipal pradicts-Tenure and occupation-Modes and rate of Assessment-Labour employed, and ite remuneration.
"Water:-Navigable Kivers-Description of-Length of-How far navigable-Vessels errployed an them.
"Lakes.-Description and sithation.
" Canais- Thicir purposes-Leneth and depth-Yessels employed on them-Cost and retum on the outlay-Wells and Tanks-Nears of iarigation in each district-Harbours, and Shipping frequenting tbem.
"Citese--Towus and Villages-\$ltuation and general description-Number of houses, and whether Pueliha or Kutcha.
"Popmiation. - Numbers of people of different deseriptions-Employment—Langunges-Condition-Henth and Diseasb-Ditto of Troops esperially-with presumed causes of healtiy or diseased state, and the treatment (not strictly medical) found to be useful.
"Wealth-Educntion, and method of pursuing it-Charitable Enstitutions not EducationalState of litigation and of crima-Police, Dumber, remuneration, and efficiency-
"Commerce-Manufactures-Capital employed-Importa and Exports froor Official Sources -Tixehange-Weights aud Measures-Coins-Baking operations-Lending and borrowingModes of transit and eommunicauon-By Land-By Water-Impediments, and their durationFords, Ferries, and Bridges-Postal arrangements-Taxation-Sources of Revenue, and produce of each Tax-Mode of Collection-Number in Sebundy or other Corps, engaged in collecting Revenue- History and Antiquities, facts illustrative of early or more recent history, and of changes, Poltical or Agricultaral-Public Buildings.
"6. We need scarcely observe that in Statistical investigations, the most rigid accuracy as to matters of fact is indspensonble. Eironeous information will be werse than noue, because it can but tead to mistead.
"7. There may be some objects, especially those relating to physical science, with which our Servants getarally may not be minutely acquainted, and no statement on these or any other mathens of in juiry will be of any value unless they be both precise and accurate. Where tise requasite measure of acientific knowledge is not possossed by others, it may, perhaps, in many cases, be sapplied by our Medicsl Officers, and their nid will, we doubt not, be clieariuly rendered whenever required.
"8. In conclution, we direct attention to the following general instructions:-
4. In all cases where practicsbie, reparts should be the result of the personal knowledge of the Oliegr reporting, and where such is the fact it should be mentioned.
" 10 . Where from any cause the personal knowledge of thir Officer cantot be extended to nay object of inquiry, the authority on whech the reported facts reat must invariably be stated either in the marge or in the body of the report.
" 11. When esumater only can be furnished, the grounds of each estimate must be stated, and the reasons for adopting it.
"12. Where information is orslly given it should be committed to writing at the time-in like manner personal observations shonld be recorded at the monieat of making them.
"13. In addition to the names by which places are known among Earopeans, it would he desirable that the original names should be given, both in the Devinagari* and Urdn character, according to the best authorities, especially toeal and native.
" f 4 . In regard to coins, weights, and measures, care must be taken to preserve uniformity as to vatuation, conuparison, and conversion, and to insure this, Priusep's 'Useful Tables' may be takeo ns a guide.
"15. Where any material variations exist in different parts of any country, or divisions of a comatry, reported on, the uature and timits of such variations should be precisely pointed out.
"16. It will be observed that the greater pant of the inatructions above are designed to ensure accuracy, the importance of which we have alrendy adverted to. It is the more necessary to

- "The Proclamation and State Advertisemedts in the Catcatta Gaccuc are usually printed in the Devanagari, as well as in Urdu or Arabic character."
diwell upon this point, inasminch as some previaus atcempts to afford statistical mformathon are unsatisfactory, because obviously ancorrect
' 17 Thus in a calctlation* made of the population of the North Weatern Provinces in 1826 (excluding the Oeded Districts on the Nerbutda and those ceded by the Rogab of Rerar) founded on an actual enumeration of the villages in those Providees and a partial enumeration of the houses, the amount is taken at $\$ 2,206806$ and the number of square miles occupted by this past mass, as aseertathed by treasurement upon a map, is stated to be 66 , 310 Thus rejecting fractions, it would give a population 484 to the square smile while in an estimate of the popula tion of the priacipal portion of the Lower Proviaces of the Bengal Presidency in 1828 the amount is givan at 37,503266 , and the amount in square miles (ascertained as ith the North Westem Provinces by measuremeot upon a map) at 1$\lrcorner 3802$ affording no more than 243 mhabitants to the squere mile little more than halit the number clamed for the Nortb Western Provinces notwithstanding that the Lover Provinces contan the great Cittes of Calcuta Dacca Moorshedabad and Patha, and the populous tracts aromad them
- 18 But the population of China universally considerad one of the most densely peopled countries, 15 , according to the highest native estimate only 277 to the square mole $\dagger$
"19 Further, in a statement of the Statistics of the North-Western Provinces primted by order of the heutenant-governor and beariog dnte the 25 th of Tebruary 1842 exhibatint a view of the area and population of twenty two districts constitung by far the larger portion of those provinces, we observe particulars wbich lead us to suspect that this latter document is not trustworthy Alogark a district without any considerable town $1 s$ stated to have an agricilearal poputation of 56679 and a non-agricultuml population exeeeding it more than elecen times the number given being 648499 whale the district of Bebares contanong the great nind populous city of the same name which with its suburbs has been estumated to contan 200000 souls is sard to have 209157 agricultural mhabitants, and only 145940 not-agricultural $\ddagger$

420 We notice these extraordnary errors, that we may impress upon those who may be called upon to act upon our present orders the necesoity of employng such vigidance and atcension as may be sufficeat to guard aganst the transmassion hereafter of any statement so deficient in accuracy
:21 It should be fully borne in mind that every statement that may be furnshed will undergo searclung examinstiou at home and we trust that ach one will be prepared with auch care as may insure our approhation

In the Calcatto Enghatman we find that the local authortses are begoning to act upon the foregoing nastractions, and the several darogahs have been ordered to ascertan withn the shortest period pmotrcable -
lat The number of date-trees in every village, and the approximate quantity of molasses they are likely to produce

2adif The number of beegahs cultuvated in every village with sugar-cane, and also she approximate quantity of molam likely to be obtained

In furtherance of the above gangs of peons hase marched out from the thannahs in every direction (With the isnal mamation from the daroragees not to forget bringigg one rupee nuzzur from each village) to attend to the wishes of the Ozoor and probably we shall in a few days hence, hear the result. You may magne the strange mpression which such mquiries hove cauged on the narrow monded ryote whe already conpecture that the Company is gomp to establesta sugar fictones to replace the silk ones they have given up they, in consequence apprehend lots of oppression"

Lircular Order of the Baard -I an directed by the Sudder Board of Revenue to request that you will obtein and submit in the annexed form with the least delay possible for the raformation of the government of India the particulars thurein indicated respeeting the eultivation of sugar, and the manufacture and conemption of sugar and goot in the several districts subordibate to your control

2 The information being mmediately required you will be pleased to conader this an urgent call
" Eshmated cultivation of cane an buggabs of feot square each.

- Fude Statements of the extent and population of British India as offierally returned by Use Searcher of Recorda of tha East India Company in first Appendix to the thurd Report from the Select Committee of the House of Commons 1881 These statements have been adopted by the Honourable Mr Elphinstone Vide his History of India, vol 1 p $5^{\text {" }}$
+ Census taken in 1812, wide Davis's "Chiba, p. $413^{\prime \prime}$
I $\ddagger$ According to Mr McCulloch, vide Geograplucal Dictionary ' vol 1 p 8 22 the relative density of the population of France, aboundiag as it docs in capital manufuctures, and large towns, is dearly 164 to the squaremile"
- E tumated produce from cane tn maunds of goor of lbs each

Thee tmated number of dite-trees
The istmated produce from date an maunds of goar of tbs each
The extirated consimption of the district whet ther in sugar han goor, or the raw cane


Computed at an averabe of per had during the jear, on the assumed, or ascertaned populatzon
lhe obyect sought by the returns is to ascertan the quantity of sugar produced and the quanaty consumed in India.

The iorm sent is to stow the best way of furnshung the suformation
As the prodiue is exlubited in different conditions it is desirable to adopt one into which ath thenchus may be convertal In the above form goor has been taten berag the denomiation of the susar ifter the lirst boing of the juce exptessed, and the equivalents in goor of all the other quanturs may be easily a certa ned by imquirt More then an approximation to the actuai consumption is not expected At the close of the headiag of the last column is suggested what appears o be the readiest toode of athaning that

## SCINDE

Korrachee - When this country was subjected to British authonty it was divided into three distructs of Kurrachee, Hydrabad, and Shikarpore The first is considered the favourite stition, and has the advantage of the sea aur, but there is great scarcity of good fresh water For a small civl station it is well adapted, but not for the head quarters of a province The buildings that have been erected for the civil and mintary sen nce are numerous, but few are well built The barracks are commodious and comfortable buidings, well antuated The hortscultural garden does great credit to those who have planted and superintended it The right bank of the Indus forms the principal boundary line of this division unthl athin a few miles above Seran

Hy drabad is a sudder or a collectorate station, far more centrical than Kurrachee It was so durng the Slkh rule Thas large, dirty city is situated on a bill to the north of the fort When the filthy state of the town is taken anto account, it would be considered tolerably healthy, were it but kept in a clean state I he fort and the mud wall tandahs are the residences of Europens, the latter kind of uncomfortable erections are also dwellings of the natives The Hydrabad district meludes all the country between the left bank of the Indus and the deserf, and northward as fer as the terntones ceded to Ah Morad

Sumarporf is not situated on a narigable river This district extends northwards to the boundaries of the andependent states on the rght and left shores of the Inclus

Scel of the Scundiaa Prounces -"Near the banks of the river the soil is in many places of a luose stady dexreption but where the does not form the priacpal characteristre, it con ists of a hase loamy rich cha, exceedngly tertile, large tracts of land are impregnuth with mith a a ot cotrse valueless for agrualtural purposes The hatis are compe sald of sundctone, and therefore barren, still in the distance they form a pleasing bach br sund to the new and a reliet to the cye bome of the limestone occasionally met with arc of a varle ated nature red and breen hues Numerous fossil sea shells have been discoyered in thuse hills, full 200 milles from the sea

Ifrrgatron -" This sa principally effected by suver and canal water wells are verv seldon resorted to During the height of the flow of water, which lasts about two months, little or oo exertion 18 necessary for leading them to an approximate land At other times the Persian wheels are used these are of a most deplorably clumsy construction, generally worked by a camel, whose tall ungamly gait looks most miserable, and oven fudicrous, when harnessed to the apparatas bhindfolded, and stalkng round and round all day the trough that secenves the water from the pota on the wheel is so badly coastructed, that full a mosety returns from whence it came, thes causing double labour When the rivers get very low, and the waters have to be raised fifty or one hundred feet, it is usual to beve a reservour midway, and in that case two whicels and a double set of camels, or catile, are required to briag the water to the desired level Canals are coustructed in every possible derection, but though necessary, thev are the cause of constant experse and vexation The canal clearng seison is the annual harvesthome to numerous people, who rearive large advances for clearing them of the sand sce, which setile in the beds during the past mundation It is usual with the partes thus engaged to put off all debta and difficulues ull this period when they are liguidated instanter from the advances received from government It appears a necessary evil, but no doubt, when time will admit, the surkar will get ten trmes the labour, and consequently good, done for one-hatf the present outlay Watercourses are constructed of a considerabie length from the differeat canals these interseel the country in every direcuon, and greatly umpede traveling As ram cannot be depended on, these artufinal contriwances are actually necessary When, however, by good chance any heavy ram falls about the end of June, it proves a perfect godsend, as it enables the seed to be sown before the rise of the rivers Such seasons prove plentiful but they are rate indeed

Cultuation -"As the patives of Scinde have not yet learat the value of an export trade, the cultivation of the country is confined to such produce as they require for home consumption Indigo, cotton, tobaceo, \&c, could be grown to any extent, and prove as productive as in any part of Indaa-but at present these staple articles of trade are neglected except to the extent of local consumption, and will be so till European crptal and skill are brought into play In Lower Scinde the staple growth consists of hoar (Holcus Sorgum) and Bajree ( H spuatus) and Dhan Ths harvest, which is gathered in December and January, is that which is principally depended upon Dhan proves highly productive on well-flooded lands, when the river has nsen to uts full beight, but in some seasons this crop fails, and canoot be depended on as well as the furst mentroned grams, which are produced by artuficial urrigation The sugar cane thrives well in many parts of Lower Scende, is capable of vast umprovement, and mizht be greatly extended Indian corb, sweet potato (Convoludics batatas) and various other notrinous productions thrive well, but the cultivation is very hmited indeed scareely enough for local eonsumpzon In Uppar Scunde, wheat, barley and gram are staple granas under cultuation, and any excess of prodace Ginds its way by easy tansit to Lower Scinde, where it is retaled to great advantage, and at a high price

Jageer and Waste Lands -. 'The Jageer lands are far more extenswe in Lower than Upper Scinde Thuy comprise more than a fourth of the tentories attached to the Brichsh rule It was a wise policy, and certanly a yust ane of Sir Charles, to restore to the Jageerdars therr rell-free lands, and his orders, from all i can hear, have been judicounly carried out When lapses by death take place in any of the Jageerdars who have been confirmed in their Jageers by the Enghish goveriment, a fourth of the value or produce of the sad rent tree lands, viz, the Jageerdar a share, is to revert to government This is a fair provision, as at does not affect the socumbents, and may be looked upou in the light of tribute These parties have undisputed and quiet poseession of their hands, and where they derive water for imgation from canais formed at the expense of goverament, there they are called upon to pay a certan sum as therr shave for the benehts deryed
"The waste lands are very extensive, proncipally attuated an unfavourable localues for irngation Such tracts as are mproguated wish carbonate of soda, atre, and muriate
of soda, are of course utterly unproductive, and the extent of auch tracte 18 very great, the waste lands first mentioned are not however completely useless, as the shrubs and jungle tound on them serve to teed large herds of camels and cattle

Population - "The Mussulman sect predominate over the Hindoo, it is sadd, by three to two A vear or two aro an attempt was made to ascertan the extent of the populatoon, both $2 s$ to number and classes, but the people appeared nverve to giving the necessary intormation and the governor has a too noble and Enghish spitito ascerian the fact by force ail attempts were therefore withdrawn, and it must be left to some future period to ascertan the fact It is next to imposssble to form a tolerably correct guess -of the large cites and towns a pretly near estimate could be mede, but that is of little use The ternitory is sad to be thmity peopled, and perbaps correctly so, owing to agucultural pursuts being confined to the localties whoh have the means of arrigation by tivers and canals If wells were resorted to toore generalty, as is the case in Upper India, there is no doubt that numbers would be attracted to the province, as the land is very proluctive when properly attended to The Scindians are, generaliy speakung strong and hardy, many of them tall, with dark complexions Those who are in comfortable circumstances, and not expoued, are bowever very farr Thus is particularty the case wath the women, who are sectuded, and may correctly be termed of the farr caste Very few Rajpoots Brahmins or ladies to be seen Meat and wine do not come amiss to thet They are a very mdustrous set, and the most weatehy as the natural consequence All are addicted to smoking to an alarming extent a hookth pecnhar to this part of India, is in use the bookah bottom is of earthenware-very Jarge to which a nearly horizontal snake is attached, so adjusted as to enable the smoker to sit at his ease on the floor, and continue bis work, smaking at the same tame the snakes are often four or five feet in length They smoke tobacco, as also ganjah (Cannabns Indrea) to a great extent, supplied from Candahar Cabul, and the countries between the Indus and Herat They use and smoke it the same way as the Egyp trans The dress of the people is unlke any other part of India Therr caps are extiemel, tanuful and pretty but give no shade to the face they ate made of quited cloth, and of all the colours of the rainbow, some are worked in with gold and silver tivend The turbans worn by the Hindoos are of an ummense magnitude, and it puz zles the beholder to know how they can be constructed, these turbans are the repositorns of quy valuable documents they may hate, as well as jewels, or other light property Nearly all whether Mussulmans or Hindoos, wear beards, wheh they often dye ot a red colour Tise nomen ate also fond of dyeng the har The better class of Scmdians wear a long shirt, of fine or coarse cloth, agreeably to the corcumstances of the wearer, which reaches nearly to the ancles and is unconfined by any wastbandalso loose drawers underneath All the poor and working classes have an enormous quantity of superfoous clothes on, generally dyed biue, and they wear them round the waist Indeed so enveloped are they that had thev been mhabitants of a cold region, they could not hate required more clothing than as now resorted to The better class of temnies follow the practice of the Egyption women, and when walking abroad are covered with an manense prece of cloth in the shape of an extingusher, whrla 18 gan thered together on the crown of the head, reachnor to the soles of the feet hanng small evelet-holes perforated in front, before the eyes to enable them to xte thear way, these envelopes are of whate cloth and the wearers look like so many walkng ghosts The population suffers greatly occasionally from epudemic disorders, as is the case all all parts of Inda and therefore must be caiculated upon accondargly

Revenue Colkecaons - The sistem in vogue during the native adminstration is still carrid on with sery triflim, modfications, wheh, under European managemenr, ts consideied olygetionable The land revenue, I have been informed is with sonse very trifing caccption thinin in grain and the average share approprated to govemnent varies a thud and 3 tourth The other two portions are immedtately and widely spread by the culivaton to satusfy the present wants of themselves and the surrounding population whith the goveanment share aust be stored until tire marikets get exhausted, or else dis-
posed of at a very low rate. It also piaces it in the power of the government to cxeate a monopoly, if such should be wished and wheh ought not to exist Fiom caanal inquires I have made, I am led to belteve a cash revenue aettlement could not be metow duced without much trouble, and then at a very low figure, as a preimmary measure It wonld also requise the aid of well experienced settlement officers to carry out such a pian successfully The system of taking reverue inkind was not so obyectionable during the tume the Ameers had the rule, as they paid their troops, public and domes tic servants, \&e, in grain-therehy findmg a vent for the prodice, which under the European system of management cannot be resorted to The farmagg practice prevails for mhor revenue collections in Upper and Lower Sende, as in the thae of the native reigns Indeed it will be out of the question altering the old system whout the and of experienced revenue officers and even to them it will be a dificult task to persuade the rural popalation to swerve from old and established customs A very experienced and well intormed Scudain whom I met at Jussulmere, gave me the minutio of the former and present management of revenue tratters, but with actual experience, it would not be correct to give publicty to what he sad The measures and weights by which the revenue is collected have exclustve appication to Sende

Clemate -" So much prejudice exists in disfavour of the climate of Seinde, that any individual attempting to speak in its favour has a fair chance of sot betng eredred In my progress through the country, I have seen as many aturdy, otd gray-headed men in the villages, as are to be met with in any portion of the Companys dommons The great loss of European life amoogzt the military, must be atributed, io most cases, to provisions, or existing exposure in a newly ceded province When the troops can command as many comforts and convenences in Scincle as are to be found in Gangetic Indua hitte doubt can exist that it is equally free from disease I hear that very few cascalies hive occurred among the European officers, civil and mithary the last year or two, and such wil generally be the case among those who are comfortably sheltered, are temperate and devote themselves to mental and bodily exercise in moderation Some of the staff and others, have resided $m$ the province from three to seven years, and enjoy as good health as they conld have done had they been in any favoured atation attached to the Bombay Presidenty In a good house well secared by glazed doors and windows, and with a single tattee, the temperature during May and June will uot exceed 83 der, and without the latter, 86 deg or 88 deg Good houses are however rare $A$ few are to be found at Kurrachee one at Hydrabad, and one or two at Sukku When commodious and well constructed manstons are as numerous in Setnde as they are in the other provinces of Inda, we shall hear no more of the hue and cry that it has been the fashon to make without reference to the causes, since the province became a component part of the Last India Company $s$ Possessions. During all the hot season, that is from the 15 th of April to the end of November, such an occurrence as a hot might is seldom kuown, on the contrat $p$, the nights are cold and 1 bave heard of oflucers lising min well-situated localities, find it necessary to use more coverng at night than thev would thank it expedient uting in England during the summer months From Oesober to the midale of April the weather is charminely pleasant, and from the madde of Novenber to the same period in February, the cold is nute tse morning and evening for Indta The extreme heat complaned of at Sukkur, can be aceounted for by the position of the cuntonments All the barracks and ofheers houses are stuated on barren calcareous forma-tions-they can hardly be designated hals these rocks become so hot at mod day that none can walh on them barefooted with unpunty The heat is retamed, more or less the whole migh, and the place never becomes cool, except for the five months of cold weather It is not just to yudge of the oid province from a rebidence at this awtul station A totr more pleasant and agreeable locality could have been selected for a matary station a few miles lower down the stream where the banks of the river are very high and hirm and the scenery romantically pretty with the advantage of beng 10 deg or $\mathrm{lod} \mathrm{d}_{\mathrm{g}} \mathrm{g}$ cooler The dast that prevails in Scinde is perhaps, more distressing than any degree of heat But, by artficial contrivances, and some expense, the European resident is not
inconventenced Dust equilly prevals in many of the mhitary stations in the Northwestern Provines, particuinly those on the banks of the Sutledge but houses with every convemence and comfort have been constructed at any expense, at those statoons, to insure confort from the external enemies, heat and dist When such is the case in the scmedan province I doubt not we shall hear nothing more of the evils now complamed ol

Hiters -" Plie Indus is the only navgable river all the year round from its left bank many small streams, called rivere branch of These are only of use for argation The Indus atter the punction of the Sutledge, or rather the Gharra River, with it, has no tributarks :a th whole course to the sea This is one reason why it is so far inferior to its sister streath, the Guger Though these tiso grand rivers take an opposite course to the sta from thetr source-the Ganges runmeg from west to east and the Indus from north to south (leaving out the varying points of the compass), still the pravaing winds durnts the inundation of both nivers are adapted for each for the naygation agamat the strean the prevaling und in Scinde during that penod bemg south and south-west, and, on the Gangec, east and south east and we may be led truly to exclaim with the mmortal joet 'These are thy wondrous works, Parent of Good'

Scenery - The traveller who only penethates a few mules on eather side of the Indus, would pronounce Scinde a sterilg country, and devoid of all picturesque beauties. Such however is not the case, and though not very rich th forest scenery, still, very handsome froses of trees are to be met with Sone of the views on the banks of the small widing tributary rwers-more particularly at the season of the inundation-are chaming to the eve the foliage of the trees along the banks veng rich to the extreme In the nate hbouthood of IHdrabid for many miles along the winding Fulfalee, this is the case fine river wev of Sukkur Bukhur, and Roree with the Rocky Island, is also encedingly mposing as yon appronch from the south It would form a rich panting, it tuansterred to canvass at the tume of the rise of the riven At Khyrpore, the residence of Meer-Als Moorad, are numerous bedutitul gartens, which would be an ornament in any past of the continent The babool tree (Mimosa Arabica, et Farwesana) attans great perfection in Scinde such as is not to be met with in noy other part of Indis Occasionally the banidn tree (Ficus Indeca) is to be met with but by no meins common Some miterior specmens of the peepul (Fucus relagosa) are to be met with, and are valued according to their scarceness by the Hindoos The elegant neem tiee (Mflua Azadarachita) makes up, however, by its nichness for the poverty of those just enumerved, and wies wath the babool in ging effect to the sylvan vews Many other slirubs 100 numerous to enumerate, are seattered about, and, in orehards the usaggo tree thries remark ${ }^{\text {bibly well, and the fruit is as well flavoured as any to be }}$ found in thes country the view of the fort and citadel of Hydrabad 23 also very impusing from a distance-buing well elevated on a hmestone rack
twencral Observations - "Numerous arteles of export, such as indigo, saltpetre, buffaloes hides, nad borns, goat shio, \&c, ane procurable in large quantities and remuneratne puces, between IIvdrabad and Mooltan, principally near the latter place, it is to be owned but then at sucil prices and at such an advantageons weight, that the expense of nuver carrife will fall very lught The indigo 19 very tine and the saltpetre very pure The buffaloes hudes are also large, ond of the Lest description An agency from any infuential house in Bombav would find a brancl ageney in Scinde bighly advantageous I im not we!! acquanted with the customs duties leviable on export transt goods of this description, but ifeel sure the governor would affiord every facility in encournging trade in the province Funds to 1 considerable amount, would be atailable monthly, for good buls on Bombay at a slight premum

With the exception of the direct road from the cts of Hydrabad to Roree, there ${ }^{\text {B }}$ nothing worthy of the name in scmede Whecled cairagerta unknown, mdeed, the face of the countiy is so cut up by canals and mater courses, that no wheeled conveyances cuald be uscd Camek bullocks asses, \&e are the only means an use as land cavriage Hhe former ve pour neak creatures compared to those in use in the Punjaub and provimes Maks of an excellent breed, are teadily to be hid, but at rather high prices The bazars of the princte id towns are generally well stocked, but the prices of all artucles
exorbitantiy dear, and as nericks are not countenanced, a few wealthy men create monopahes, and keep up prices of every description of goods At Kurrachee, Hydrabad, Sulkur, and Shikarpore, are well supplied Paisee shops, where alroost all descriptions of Furopean goods are to be had and it is a wonder these traders do not look to the advantages they could derive by exporting inland produce to Bombay, instead of making remitances The onily reason that can be assigned is that it is not ther profession At the proncipal station of Karrachee it was highly pleasing to hear the eulogiums pasoed by the native population on the excellent Sir Charles, who, it appears, by their account, lends an attentuve ear to every complaint, and permits the poorest persons to approach his residence with any petitions they may have, and that at any hour
"In the way of natural curiosities, the botanst could readily fill an heibal with choice and nondescript specimens, and the mineralogist and geologist be equally successiful For four months in the year these researches could be followed lossil specimeas are abundant, of a descnption to encbant a Cuvier
"I have alnoost omitted to say that salt is an untaxed aftele in Scinde, and to be purchased for eight or ten annas per maund Thes is a great blessing to the poor -Notes of a Traveller who has sogourned en the country

The above extracts, dated Mofassil, appear to be the best shetch which we have yet read of this country

## ASSAM-ARACAN-AND TEAASEERIM

Assam -This mand and well-watered terntory is, as yet, little known. Even its boundaries seem to ws to be but impertectly determined It was divaded into Upper, Central, and Lower Assam, inclosing an estimated area of from 18,000 to 20,000 square males, and a population of from 500,000 to 600,000

It is well known that the country, generaily low, 25 very fertale, wath districts of undulating hills It is watered by the Bahrampootra and namerous streams, which, during the flood season, inundates all the low grounds Assam owes 2 ts celebrity, likely, to the establishment of the Assam Tea Company, who have succeeded in cultivating several fea plantations, whether profitably or otherwise we baye no means of knowing The following extracts are from a sketch of the country recently written by an officer, who was sent to the district by the Indan goverament

He deacribes the jungle fever as fearful to Europenns, and the ascent an the civer craft, he says, $1 s$ extremely tedious He was two months ascending in a budgerow, which he exchanged for a canoe forty elght feet long; bemg a hollowed single tree Of the latter part of the voyage he says,-
"The solitariness of my postion, only enlivened by the song of eighteen merry padders pulluig from monning to night, at the rate of forty or fifty nules a day, aganst a rapid stream was perhaps the worst part of the story The scenery, if not posituely devold of picturesque beauty wearted me from the monotonous charater Sand-banks, woods, and bills, unvarted by the restidence of man or the stightest token of civatisation, constututed its leadiog features Occasionally a boat might be eacountered, but exceptagg from the rude salutution of the wild crew, the screaning of wild fowl, and the loud crash of falling banks, prostrating lofty trees into the bosom of the river, thot a sotrad was heard to relteve the perrading sohtude

## He reached Burpetah, his station for eight months, he says--

'The pmpulation of Burpitah is cstmated at about three thousand aouls ther huts are bult without any regulncity on hugh artificial mounds of earth, in the centre or gardens of betul nut and plantan trees, clumpe of bamboos, cane and grass jungle, mango, and other laige thees, under the shade of which, mpervious to the sun, roads or chonnels mersect the town thevery direction 1 in the tatny season these channels oung to the mundation of the countri, are filted with witer many feet in depth Every house, consequently is protuded o th one or more canoes in which the inhabitanes visit each other s isolat d po mon* ind the catle are brought apon the htile emmences at might and housed of contmes under the same noof with the famik, if not in the same room Daily mov the cartle le aeeu skitming ^cross these street streams in search of a dry spot. ol land on which to graze In this manner for four months of each year-June, July, $A u_{\mathrm{e}}$ ivt and September-are the people surrounded by fioods but, is if endowed whth amphbous natures they seem equally happy in or out of the uater, and pass then tme on beard thear boats $m$ uadmg with other willages throughout Assam

Burpetah is subject to other nasitations besides water -

- In Junuar February March, and April the whole country adjannng Burpeth pregents a spectule seldora seen elsewhere the natuves set fire to the jungte to clear the land for cultitation and to open the thoron, hifares between the different villages, and thic anful roar and rapudty with which the flames spread eannot be concerved A space of many miles of grass juagle twenty feet high is cleared in a few hours, and the black shes scattered over the face of the carth after such recent verdurc, form one of the most Eloomy and desolate landscopes that can well be maned But so rapid is vegetation in Assam that if few days suftre to alter the scene the punde speedily shoots up with greater strunth than eser, and at the approach of the hearv rams in June at again attans a helght of many feet On more oceaswis than one though mounted on an elcpiant, I Hzie had the greateat diftulty to out-flank t fierce roanng fre, rapuity moving with the wind in a long tine over the country The elephant, of all anom in is the most fearful of tire and on heariag the approach of the elcment he mastantly thes to fight, but the rapidis with which the flames spread renders escape most hazardous, especially it the wiod is high and rught aft The best plan to odopt if a tire breaks out to uindward is to carcle round the nearest flank with all expedtion, gatang the space burat by the advanuing fames On foot escape would bc almost impossible, the jungle being impeuctrable except by a narion footpath, and thus beng trequently overgrown with grass if no open spot be nex at hand, mevitible dectuction must be the late of any mifortunate travell $r$ to leeward of the fire

Hunting buffaloes and elephants, deer shooting and hog-sbooting are the puncipal sports For the short period of sin months, tuenty casts of men hulled by wild elephants and buffaloes are recorded Great improvement might be expected from the extenston of tea plantations, but this is reasted by several of the tribes This appears to have caused the ansurrection of the Singphoos, in 1843 -

- The ral onetn of the insurrection $\begin{gathered} \\ \text { ras } \\ \text { the occupation of the Koojoo tea garden }\end{gathered}$ Ind other tel tricis The conatint drathon of the Docaneall slaves and dependents, who are the preple thefly employed on cultration under the Singphoos, besides the advance of ci ilisaton consequent on the extiblishment of a consderable village at Jey-
 of Muluth tormerly under native managument must also have prosed distasteful to a sita re $^{2}$ people ponsesuig a wid country and dcliehting in extencive huntug grounds
- The tes plant is indt. cacme io Nutuele ond the Asom Tea Compiny have cultuvted ming gardens, zieath to the bunetit of Upper Assum and it the company steadily prosecute the speculation thousauds of latourers will, the course of tome, resort thither tor cmployment, and bucome formanent setters Tea, it is believed, may
be grown in sufficient quantity to supply the English market, and afford a handsome remuneration to the speculators An inconsiderate expenditure of capital placed the Assam Tea Company in great jeopardy, and at one teme it was feared the scheme rould be abandoned The number of managers and assstatants apponted by the Assam Company to cariy on their affars, and supermtend ther tea gardens on large salaries, was quite unnecessary one or two experienced European superintendents to direct the native establishment would have answered every purpose A vast number of Cooltes (or Labourers) were induced to proceed to Upper Assam, on ligh wages, to cultivate the gardens, but bad arrangements having been made to supply them with proper wholesonse food, many were seized wth sickness On ther arrival at the tea plmations, in the midst of hagh and dense tea jungle, numbers absconded, and others met an untimely end The nee served out to the Coohes from the Assam Tea Company a store rooms was so bad as not to be fit to be given to elephants much less to human beings The losp of these labourers, who had been conveyed to Upper Assam at a great expense, deprived the company of the means of cultivating so great an extent of country as would otherwise have been ensured, for the scanty population of Upper Assam offered no means of replacing the deficiency of hands Another mportation of babourers seems desmable, to fuchitate and accompish an undertaking formed under most auspicious circumstances Nor was the improvidence of the compiny in respect to labourers the only instance of their mismanagement Although the company must have known that they had no real use or necessity for a stcamer, a huge vessel was nevertheless purchased, and frequently seat up and down the Bahrampootra river from Calcutta, carroing hitle else than a few thousand rupees for the payment of their establishment in Upper Assam, which might have been transmitted through native bankers, and have saved the company a most lavish and unprofitable expenditure of capital"

Gold-washang has become so unprofitable in Assam, that it has been almost wholly abandoned there are, however, protucts which a people less indolent and less addicted to smokng than the Assamese might turn to profitable account -
"In many parts of the province, coal of a good quality is found, and indeed the soil of Assam generally may be cousidered extremely rich it abounds in valuable pro ducts, such as rice, sugar-cane, moongah silk, pepper, mustard-seed, and cotton But the bounty of nature is marred by the indolence and apathy of man the culusator seldom looks beyond his immediate wants, and makes no attempt to mprove has condttion In fact, in agricultaral, commercial, and manafectarmg industry this conntry may be consudered at least a eentury behnd Bengel, and there seems little prospect of improvement, excepting by the introduction of a more aotive and industrious people, who might stimulate the natives to mocreased evertions"

The marriage customs of the Assamese have cmany pornts of amolarity to those of the patriarchs of Israel -
"Jacob servad Laban as a servant or bondsman many years to obtan in marrage Leah and Rachel, who were sisters, and he was not allowed to marry the younger before the elder So m Assam a man may marry two aisters, but he must not marry the elder before the younger It is not unconmon, when a man is poverty-stricken, to engage to Live and work Yor several years for the father of the girl he wishes to marry He is then called a Chapunea, a kind of bondsman, and is entitied to recelve bhat kupper, food, and clothng but no wages, aud at the expration of the pervod of servitude, of the gul does not dislike hum, the marrage takes place The man is looked on in the family as a khanu damad (or son in law), and is treated kindly If the girls father be very wealthy, and he has no sons, he will sometmes select, from some equally respectable fami, a husband for his daughter, and brugg hun up in his own house The youth so selected is lisewrise called a Chapunen, and inheris the whate of hus father-in law a property If a woman s busband dies, though bhe may be only eghteen or twenty years of age, she can never marry again"

This officer says, of the country of the Garrows,
"An ummense quantity of cotion is grown on thar hils Thus until 1843, was sub ject to a tax paid by the purhhaser to government, at the market where the Garrows bring
down ther cotion for sale but, oring to the mal-practices of the natne collectors appointed to rective the customs, lute pront accrued to government after the expenses of Ve e $t$ bishment bad been paid Cor the encouragement of trade and a freer intercousse whh our people the custows have lately been entirely abolshed, but it is supposed that a pian for the ussessment of the whole of the Garrou culturation will if possible, shortly be idopted The climate of the Garson hills however, offers a serious obstacle to this measure for, according to our present informition, no Luropean constitution could endure a lengthened rasidence amongt them and whiout the constant presence of a Briwish oftuer armed with authonty to arrange there afl urs, nether the edvancement of civthisation nof the realikation ot a revenue sufterent to defray the expense of retanmg and setting the country could be accomplished

The Garrous arc a wild uncwised race Disciplined troops nould be necessary to protect the cultivators of cotton or other crops from thar swords, speas, and poisoned arrows their neghbours, the Cosseahs, are an athletic race-who, if diselphed, woulli be more than a match for the Sepoys Assam, if propelly orened, and af steam naragation were put into regular operation, and af the people of the country were thoroughly subjected to order, would become a most productive and commercial rejion

## ARACAN

Tass fortile but unhealthy district is included within the presidency, and extends along the east sude of the Bay of Bengal, from Cape Ngrans 15 deg 53 mm to 21 deg 30 mm , and was urested from the Burmese in 1824, and forms a narrow district, with many good harbours and several small unlets Its length is about 500 mles, its breadth from forty to eighty five miles The population mas formerly estumated at more than $2,500,000$ of inhabitants, at present at not probabl) 250,000 It is generally an undulated region, but with unheuthy marshes along many parts of the mlets and shones The nyers are numeroue, and mostly nangable for small craft, vessels of about 250 tons enter the Aracan There ar sereral islands and rocks off the coast Extensive forests cover a gieat part of the country This teratory is capable of yuelding every tropical product, but on coming into Butish possession, it was in the most sixvage state, and the people, under the King of Burmal, in the most degraded condition Under the Indian government, much in the way of improvement has been efficted, but the country, generally, is su ceptible of infinitely greater cult:vation, and of profitable exploration Salt is prepared along the salt creehs Teak and other valuable timber trees are abundant, and, where cultuated, nce, and every ather tropien product grow in profumon Many truits, as the orange, mango, plantan, and other kinds, grow in natural luxumance Elephants abound Cattie also thrive, and the forms of the arr and the fishes of the sea ve sard to be plentioul Ruce, paddt, salt, tumber, buftalo horns and hades, elephants' tccth, onf, a il some su=ar, tobaeco, salh, cotton, wax, \&c, apperr among the exports, whinh lath: are weladed in the tabular accounts of the exports from Bangal Alsib is the çinf purt, and Aracau, the cypital, is the next in import
ance for trade This country will no doubt become a valuable productive, and consequently commercial district In fact, the whole of the regions, extendagg from Chittagong to the extremity of Malabar are, with even greater natural resources and products, in comparison to Asta, what all Italy may be considered with respect to Europe-the Astatic regions having the supenonty of great mivers and numerous safe and capnenous harbours

## THE PROVLNOES OF TENASSERIM

Ters pronnce, or provinces, of Tenassenm were acquired by conquest from the Burmese in 18256 Tenasserim 18 divided from Slam by a high mountan range, and extends west of those mountarns along the east coast of the Bay of Bengal, from between 11 deg and 19 deg north lat. The savage regions and people of Burmah separate Tenasserim from the British territory of Aracan, and Lower Slarn, which stretches south to the Malay peninsula. Tenassenim is far more healthy than Aracan The ramy and dry seasons nearly divide the year into equal parts The dry has its cold and hot penods Vanous crops are cultivated, among others, tobacco very generally, sugar canes, cotton, hemp, indigo, various vegetables, long pepper, cardamons, catechu, and various frusts, nuts, \&c, grow wid, valuable teak and other useful timber abound in the forests, salt is made along the caasts, minerals are also sand to be plentuful, coal and uon have been discovered

The progressive development of the natural resources of Tenasserim has been of great commercial value since the occupation of the country by Brtish authonty The teak tamber trade, and ship bulding, bave been the promment occapations

Moulatein, the capital, has thriven since its foundation in 1825, by Sir Archbald Campbell, more rapidly than any other European settlement in the East, unless Singapore be excepted The govemor restdes at Moulmetr, and subordnate authontses are established at Tavoy, Mergu, \&c Moukmen is in the northern division of Tenassenm, called Martaban, and situated on the nver Khan Luen The island of Balu forme a natural breaknater, which completely shelters the harbour The internal niver navigation, and its port, with the neh internal country, renders Moulmem one of the best aeats for a commercial emporinum in the East These adrantages account for ats founnshing trade and for its prospenty Its diruct trade with London commenced in 1837

STANDARD OF COINAGE WEIGFTS, AND MIASURES, FOR BRITISH INDIA

[^27]troy or one tola and contanping eleyen-twelths silver and one-twelth alloy to wheh the other silver cons riz double hall and guarter rupees, and two anna pieces, bear in all respuct a dise proportien The value of the Companps rupee is nearly the ame as that of the Madras bowbar, Ferrahabad, and Sonat, and is equal to afteen-3xuteenths of the late sicen rupee

The followitg are subaisisions of the Companys rupee -

$$
A \text { ple }=1 \text { pran } \quad \mid \quad 4 \text { pysa }=1 \text { anna. } \quad \mid \quad 10 \text { annas }=1 \text { гupec }
$$

Heishis - The unt of the British Indtan ponderary system 15 called the tolah It weighs 180 graias Cighesh taoy weight From it upasids are derived the havy wiyhts vix chitiak, seer and mun (or maind) and by its subdivision the small or jtwellers weights called mashas rutlets and dhans

$$
\begin{aligned}
& 4 \text { Dhan }=1 \text { rottel }=1875 \mathrm{gr} \text { tro } \\
& \begin{array}{l}
\text { 6 rattees }=1 \text { masha }=15 \\
12 \text { mashe }=1 \text { tola }=7 \mathrm{dwt} 12 \mathrm{gr}
\end{array} \\
& 8 \text { pusserce }=1 \text { mua }=1001 \mathrm{lb} \text { troy or } 82 \text { 2-ib avoirdupons }
\end{aligned}
$$

The mun is sometumes called the Buti $\mathrm{h}_{\mathrm{i}}$ Inda sometumes the nem bazar mun or maund
Tor the concerson of Enghish troy weights soto those of India the following scale wall suffice -

| 1b Tray | Orate | Pendy Wchat | Grain | Thlas and De cimats |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 12 | 240 | 5760 | 88000 |
|  | 1 | 20 | 4*0 | 2900680 |
|  |  | 1 | 21 | 01333 kc |
|  |  |  | \} | 0.0055 dec. |

The agreement of the mum weight with the 100 lb tros affords a rady means of ascertaning its relatise value in the standards of other countries employed in whaghog the precious metals, as tablic it the latter are enerally expressed in meagits troy

Tiog weight boag used only tur bulton, some rules are necessary for the conversion of Indiam into wordupos waght, the latuc being ubed exclasnely for comencreal tranzactions

As 3 , seers Indion weght are uqual to 72 Ib avorrdupors the following acale may be adopted for amumal conversion vie to convert Indian into avoirdupose weight multiply the weight in scer by 72 and divide by 30 and the recult with the the weeght in ib asondupois Or muttiply the wre sht if muns by 36 and dundu bs 49 and the resale will be the weig tit in ent asordupors

T, convert atordupens into Indan wenght multifily the weight in lbs by 3.) and davide by 72
 sit and the is ult will be the weiglit in muns or maunds
 mans to 36 cot and 204 muns to 180 wwh or 3 tons or one ton arordupors is equal to about $27 \frac{1}{4}$ แนม

## 1 ODLIC LOANG IN INDIA

Thde Stot - Ciptal of bof 000 h beang interest at lof per cent, wheb rate is to be mantrabui durnan contimuntere of the charter

Hda Bend, thaning nutiest $2 t$ per cent payable 3ist of Mareh and soth of September
Aep Frue it (at Irangar Rumifuble 1 un -The loan bears anterest at percent per innums phalit t di wifly to readents in Indin in eash and in Europe in blis at twelse montha date at the rate of $2 s$ ld per sica rupee 1 bis loula cannot bu jath off before the 22 and of 1 pril tou-d and not thll atter bitteen months prevers noth Ihe primpol recervable at the optan of the




Iriulier of tha loatm may be regicterad at the India House



## CEYLON

The sland of Ceylon us separated from the Timevelly Coast of India by the Gulf of Manar, the gulf is bounded to the north-east by a narrow radge of sand and rocks, mostly dry it is called Adam s Brige, and it extends nearly east and west nine or ten leagues, the east end joming to the Island Manar, which is close to Ceylon, in about latitude 9 deg north, and the west end to the Island of Ramsseram, situated close to the continent There is a narrow passage for small country trading boats, drawing about three feet water, betreen the island and the main, but this bar or reef excludes all other navigation

Ceylon extends from north to south between 5 deg 56 mm north, to 9 deg 50 mm north latitude From Dondra Head to Point Pedro, its length is about 270 miles, and in its grentest breadth about 145

The Portuguese landed here in 1505, twelve years after which they began to settle factories They were previously opposed by the Arabs, who apprehended the loss of the trade m ommamon, with which the latter had untal then supphed all Europe The Portuguese were landly recelved, and formed a treaty Wnth the King of Candy, who agreed to pay annuall\} $250,000 \mathrm{lbs}$ of cannamon, on condition that the fieets of Portngal should defend his coasts from invasion The Portuguese then obtaned permssion to build a fort at Columbo In 1623 the King of Candy made war aganst them, but being defealed, he was obliged to accept of a peace, on condition of paying the Portuguese a tribute of two elephants annually.

The Dutuh landed in Ceylon in 1602 , and in 1638, in consequence of the alleged cruelties and insolence of the Portuguese, the King of Candy sent an embassy to Batavia, to request the assistance of the Dutch aganst them, and the Dutch sent an army and fleet for that service, "and," ssys Milburne, "by open wars and secret contrivances, they in the coarse of about fifty years expelled the Portuguese from the island, of whech they retaned possession till 1796, when the ports belonging to them were taken by the English forces, who continued masters of the sea coasts of the island It was fully conceded to the British in 1814-15 Wild anmals of all kinds, from the elephant downwerds, abound"

The principal ports and trading places have been Artpo, Calpenteen, Negombo, Columbo, Matura, Pount de Galle, Battrcaloe, Trnenmalee, and Jafinapatam Of these, Columbo, Pont de Galle, and Trancomalee were the only ones frequented by large shps But recent changes have been made The followmg s) to us the most correct, as it is the most recent -
"This rsland, the Taprobane of the Greeks, the Serendib of the Arabs, the Lavea
of the Brohmins of India, the Ceglon of Europeans, has a very good name of its own, to wit, Singhala.
"It is inhabited chiefly by a mace of men similar in their physical characteristics to the natives of the sonth of India, but for the most part of the Budhist, and not of the Brahminical species of the general religion of India; and after having been in part subdued, and for a tine occupied, first by the Portuguese and then by the Dutch, it is now wholly conquered and possessed by the British, as a colony in immediate dependence on the metropolitan governmedt.
"Although situated nearer to the equator than is the Indian peninsula, the meteorological position of Ceylon is a more advantageous one, so that its climate is milder and more equable, its surface is better watered, to which also the nature of its geological formation contributes; and in consequence of all this, and of its peenliar political condition, it afforde a very favourable specimen of the most fertile and productive of the intertropical regions of Asia.
"Ceyion is egg-shaped, and its coast is very litte broken by inlets or other irregularities of outline.
"It presents to the eye the general aspect of a region of irregularly-disposed mountain ranges, several of the peaks being of great height, and the whole surrounded by a wide belt of more champaign conntry on the sea-coast, intersected by many rivers of extremely circnitous course, and covered with vegetation, including a great variety of frait and forest trees and shrubs, affording for its principal agricultural productions the eocoa, banana, and areca palms (with arrack, oil, and coir cordage, made from the cocoa-tree), cinmamon, coffee, tobacco, sugar, both of the cane and the cocon-tree, and nice, which is the priucipal food of the inhabitants.
"In addition to these agricultural productions, its land or its sea affords to commerce several warieties of building, cabinet, and dye woods, buck-horns, gems, chank shellis and pearts.
" It abounds in elephants; but these are of little use in commerce, as they generally afford no ivory, and bave ceased to be much in demand for war and labour, and they are slaughtered in great numbers as wild game and to deliver the cultivators from the injury they do to the crops. There is an English officer now in Ceylon who, it is well known there, has killed with his own hand nearly a dhousazd elephante, simply as objects of chase.
"Ceylon consists, with reservation of paxts of the sea-coast and of some few exceptional substances in the interior, wholly of primitive rock, as greenstone, granite, syenite, and especially gneiss; these rocks, in overy degree of combination, forming the body of the island, and the soil consisting of its disintegrated or decomposed ingredients, in which felspar and quartz greatly predomivate, eariched in some parts, though very slightly, by vegetable accretions, and by patural or artuicial irrigation.
"Among the mioeral substances exceptional to the general substance of the interior of the island, are nitre caves, plumbago, manganese, and iron ores, and small ledges of dolomite. Gold and quieksilver are spoken of by some authors, bat Davy and other careful inquirers positively aver that no such thinge ure to be found in Ceylon.
"The mountains and hitls of Ceylon, according to what is osual elsewhere, in the case of rocks of the same family, generally have rounded aummits and sides, but with deep valleyg and rewines in whioh the rivers flow. It is a singularity of their atructure here, that, with searcely a marked exception, all the valleys have outlets, and it is very rare to see in the interior a lake or a pond. All the valley bottome and descending gorges, as well as the levels, are planted with rice; the soil, whene the nature of the ground requires it, being trained into terraces one above the other, fronted with small embankments, which refain the water, and afford the means of crossing the overflowed paddy fields.
"In certain parts of the island the earth is capable of being cot up into cubical ${ }_{\text {w }}$. lumps of a substance cailed by the satives cabooh, which is much used in building walls as a substitute for brick. It is a highly felspathic granite reck, in a state of imperfect decomposition. And the great quantity of felspar occurring in parts of the island,
gives to the soil of those tracts a hardish clayey structure, which 18 very distingurshable in the snooth and firm substance of the roadsides in the interior, wherever the disposition of the ground has given occasion for deep cuts
"Calcareous and sand rocks are found un some tracts of the sea-coast, but they are obvously superficial, foresgn to the general structure of the sland, and formed, accord ing to the best opinions on the subject, by martume causes, aitogether contaned to the relation between die coast and the sea, and local even there of this description seems to be the reef or isthmus of sand, sand-tock and coral, whith almost unstes Ceylon to the manland of India It is not well settled whether thes reef is now in the course of growth or decrease, or whether it has alternate periods of both Traditron among the people of Indra assumes that in some former coodition of this reef, and of the small isiands of Manarr and Ramesparato, by means of it Ceyion once formed part of the Indian penmsula, and the relative configuration of the two coasts seems to support this tradition
"Such in general are the formation and the most mportant productions of Ceylon
"Simple 19 the structure of this asland is, the gravest errors on this subject appaar in works of welt deserved repatation and authonty
"Hamiton ('Eastern Gazetteer,' sub voce) gives a more exact dea of the sot of Ceylon, describiog it as 'derived from the decompostion of gness, grante, or clay tronstone, the princrpal ingredient of the three beng quartz, m the form of sand or gravel, and decomposed fekpar un the state of clay, combined in different proportions with the oxide of mron" Bat Hamitor proteeds to say, "It seems extraordinary that, in an island the foundatoons of which are calcareous, there should be so httele calcareous matter and so large a proportion of sthetous matter in the sorl' When Hamiten saw so plamly that the assumed premuses led necessonly to a false conclusion, it is very strange that he did not reject, or at least question, his premises The assumption that the foundations of the island are calcareous is a gross error, which keeps possession of ats place an the books, it is inconcetvable why, in the face of the most cbofous and cireumstantial facts
"Leaving these general topics, th may be acceptable to dwelt more at length on some particular ones which are quie special to Ceylon-namelv, the einnamon culture, the cocoa culture the chank and pearl fighery, ibe building cabinet, and dye woods, and precious stones
"First, as to connamon culture This prodaction to its perfect state is almost a monopoly of the raland of Ceyion and its growth is confined to a very narrow tract of land on the south-west side of the stand, chetly in the neighbourhood of Colombo This does not seem to be the result of pohtieal arrangement merely, but to aribe from some inapprecrable virtue in the combination of climate, soril and water and ther relation to each other, in this sland of Ceyion, and no thes patt of it Some of these pecularitres it is easy to mdreate, whthout its beng so easy to understapd why the particular consequence should follow
"The tract of coumtry in'wheh alone the cmnamon grows to peifection, is situated on the sea-coast exposed to the arr of the ocean It is in a climate of equable temperature, wheb is at onee hot and moist-hot from its tropical postion and mosst from the frequency and pientfulness of rans The general level of the country is low in the midst of fresh-water lakes, divided from the sea by a narrow riband of land And the water in the soll of the cinmamon gardens $1 s$ of extraordinary purtiv so es to be for that reason much in request in the neighbouring city as a beverage This exact combrnation of influences does not occur any whete clse in the ishand, at least not in the same degree
"But the crowning fact ia the nature of the soil It is in great part pure quartz sand, of a greyish to a pearly white hastre A specimen of it being carefully dried by Dr Davp, was found to consist of 985 siliceons and 05 vegetable matter, and 1 water Thectrcumstance impresses one very strongly on visuting the cinnamon gardens, it seems so strange to see a plain of pure quariz sand whtened in the sun, and yet covered over with a luxuriant growth of trees In richer solls the aroma is said not to develop itself in the same concentrated form
"These plantations may well suggest a doubt es to the troth of the proposition so unquaisfiedly laid down by some authors, that "earth, destitute of organic matter, cannot sustain vegetation.' Certainly it is not oxganic mster which expports the ciantmon trees of Colonbo. Another case to the same effect is that of Ayun Musa (the eeurees of Moses), in Arabia where I saw spot of the most numixed and unpromising sand converted into a garden sinuply by durnal arrigation.
"Perhaps the name of garden, which is commonly applied to the cinamon plantations may lead to an erroneous conception of their nature. The cimnamon tree (Laurus cinnamonum), in its natural state, grows to the height of about twenty feet; but the bark, which is the obly valuable part, is found to lose much of to highly aromatic quality in the mature tree. Accordingly, the trees are cut young, when the stems are only five or six feet long, and less than an meh thick at the largest end. The bark is then stripped or peeted off miong pieces, like willow bark, scraped carefully to remove its cuticte, and laid out to dry, in doing which it earls up in quilis, as they are called, and it is then ready for the market, but improves by keeping for a white. The wood is good for nothurg but fuet. Owing to ths mode of culivation, the cinnamon garden has very much the appearance of a foreat of scrub oak, the rich bright green leaves of the small trees being strikingly in contrats with the white sand of the plain in which they grow.
"It is passible that the fragrance of the cinaanon groves may have been sensible to voyagers along the coast of Ceylod, but I do not believe that it often happens; wo such fact was perceived on board the Brandyaine. There is very titule of this fragranee pereeptible in the gardens themselves, and the idea of ins extending out to sea is laughed at in Colombo.
"Secondly, the cocoa tree. In the moist, warma climate of Ceylon, many species of palm thoorish, and they constitute a class of objects among the moat beautiful in the landacopes of the island. They are of great and varieus uses in the arts of life and in commerce. The tainpot, the areca, the banana, the royal cocoa, and the ordinary cocea trees are the most conspicuous and miteresting of the trees of this olass. The cowoa tree, above all, is valuable not ooly for its esculent nut and its milh, but for the arrack, the sugar, the oil, the cordage, the thatching, and other secondary things which are derived from its trunk, ite frut, or he leaves, in consegucnce of which every cocos tree is a precious property, and is the subject of a tax to the government.
"Thirdly, the chank and pearl fisheries. All the women of India are accustomed to wear a number of rings on their ancles and arms, espectally on the latter. These are made sometimes of metal, sometimes of other materials, among which a large shell found in the waters of Ceylon, a species of Insucinum, bs very much in request, bed of which a great amount is sent to other parts of Britigh India.
"But the demand for pearls is still more universal in the East; ond therr adoption as an asticle of personal ernament in Christendom also, extends the demand to Europe. The pearl oyster beds lie in the Straiks of Manaar, between Ceylou and the maindand of India.
"These two fisheries are held by the government and farmed out to individuals under very stringent regulations. The pearl oyster beds, especially, requipe repose for the renovation and growth of the oyster, without which the whole fishery would soon be exhamated by irregular divers, and thus destroyed. Accordingly, it is only at intervals of several years that peeri-fishing is permitted by the government.
"Fourthly, as to the buildong, catenet, and dye woods. Of these a great diversity is found in Ceylon, anong which the most noticeable are-
" 1. Teal wood.-There is said wo be but one species of teak-wood, and yet three woods are sold in Ceylor under this name, which closely resemble each other in colour, form, or fiore, and an forth, but ditter very materially in clozeness of grain and in weight. Whether Liney are distnct species of the Tectona, or varieties of the Tectona grandis, or trees of some other geuts resembling teak-wood, are guestions which f am unabie to answer. Either of these things may be quice possoble, for on comparing the forest trees of Earope and of the ¡United States, we find many examples of treea scarcoly distinguishable by any botanicai diference, and yet producing woods of very dissimilar qualtites. I have 4 T2
already, ma previous letter, expressed the opinion, derived from competent judgea, the best of the teok trmber of India rs, on the whole, mferior to the best of the oak tumber of the Unted States At the same time, however, this on comparison may prove, the teak wood, it is said, is tough and strong-that it requires litle seasoning and little care of preservation in any chmate is very durable, and beung oily is good for iron fastenngs, and is undoubtedly the best ship timber of India One of the avenues of the Pavilion (Goverament House in Kandy is of young teak trees, but it proves quite unfit to be used as an onamental tumber tree, oning to the extreme deciduousness of uts large leaves, which perpetually encumber and defile the grounds
" 2 Ebony (Dhospyrws edenus) - This wood is one of the staples of Ceylon The tree is small, and it is only the inner part of the trunk which is valuable, the exterior or sappy layers of it being rejected Its qualities of extreme hardness susceptibility of polish, and black tint are well known it is employed in Ceyton in the fabrication of carved cabinet work, sucla as chaus and bed posts, which are manufactured at Galle whit much taste and beauty
"3 Calamander wood - Thes wood is very hard exhbiting when pohshed a vartety of moxed colours, in which black and fine chocolate predominate, with some lines of a fawn colour It is made into tables, in which it greally resembles the blacte walout of the United States
"4 Jack wood (Artocarpus integrfola) - This is a light weod, nearly of the colour and grain of the Flavaaa cigat box woud but approaching mose to the unt of the palest yanieles of Bay Mahogany
" 5 Black wood (Dalbergra latyfoha) -This resembles ebony, but is not so daik of so compact and heavy as that
" 6 Neparrwood -This wood when'pohshed, presentsa surface of which the groundwork is a light brown, and in whech are seen large and onegual fibres of black, whach though longitudnal, yet remind one of the black lines in grapinc grante
" 7 Satin wood -This cabinet wood is of a pale yellow, recetves afinepolish and isone of the handaomest of the ornamental woods of Ceyton This wood is abundant aod cheap notwhatanding its uses for ornamental purposes It is the raterial wht which the beautiful bridge over the Maha welle ganga, at Peradema, bear Candy, is constructed
" 8 Sandal wood (Santalum album) -Thes wood has great celebrity throughout the East, being used from India to China, as a chove cabinet wood, and as a perfume in the funeral ceremones of the Hindoos it is of close gram, with a colour resembing that of the finest cedar, but a good deal lighter, and, like it, has a pecular aromatic fragrance -both whech quathes cause it to be emploved very much for the wood woik of fans as a hming for glove cases, ladies work boxes, and various other select ornamental manufactures of the same class The colour of the true sandal wood is a very light red There is another wood, however, of a redder unt, wheh has somewhat of the characteristic odour of the true sandal wood, and is used occastonally in cabinet work Sandal wood consttutes a primary artucle of commerce on the coast of the Indian Archipelago
"Some of the foregong woods are very beautiful, but I do not thonh they equal in beauty the mohogany, maple, black walnul, curled birch, cherfy tree, and others, which are commonly employed for cabinet nork in America
"9 Sapan wood (Casalpinta sapan) -This is a dye stuff Its colour is yellowish like that of Brazul wood, but it does not yield of dje matter ether so much in quantity or so good an qualay
"To which let me add, though it be not a forest tree, the dye root called Chay This is a plant cultivated for the roots alone, which fuinsh the colouring matter for the durable red, for which the chintzes of ludia are famous The whld plant in Ceylon is considered prefurable to the cultavatell, and the right to dig for it is farmed out This dye-stuff has been tried in Europe, but not with very adrantageaus results

The lays and commercial regulations and the tariff of Ceylon, with almost every form of administratron, require a thorough reform

Some good roads have been made in Ceylon - See the followng condensed statements from official returns for 1847

## MISCELL ANEOUS TT TEMLNTS CONDENSFD HKOM RHE OFFICIAL GOVERNMCNT

## REPOBIS OF CEYLON

Populateon-The returns for 1943 exhbit a total of 1,121631 and adding a moderate per centage for the natural merease since the census of 1843 , the population may be safely taten tione mithon and a half

So imperfect is the means of our information that it is said to be even impossible to ascertan the exat proportion of Europeans (exelucive of mulitary), who are now settled in the island nor dots any attempt appear at any ume to have be en made to arrive at an accurate result as to the industrial and vital statisties of the island, the relative numbers emplosed in eneh branch of manufactures and other occupations of the people, or the fluctuations occastoned in the several districts by the extension of cultrvation and the arrval of European settlers

Again, as recards the table exhbitiog births marrages and denths, furing the year 1940, ita materals profess to be extracted from the current records of the native Thombo bolders. or registrars but on examimation, it was found to bea meretranseript of the rethen made for the vear 1845 and, in faet, that in every year since 1843, the same figures have been made to serve as the totals in each are repeated without the cariztion of a unit

Rolurion-In a despatch wheh accompanted the 'Blue Hook for 1845, wellmented testimony was borne to the zenl and alality dasplayed by the Bishop of Colonibo, who had just then entered on the discharge of his momentous duties

- Of the reformed religion the most numerous sections amongst the Europeans and ther descendants and the wealther classes of the Chyglese, are those of the church of Fngland the Wisleyan Methodistg, the Baptists, and the Presbvterians both of the church of Scotland and the Dutch church The latter having been the estrblished form of worshp durmg the period wien Ceylon was a colony of Holland, the Dutch consusiores have still been left in the possession of the churches and the most beneficial impulse hos been giren to the extension of Christianty mongst the natives by the hibraluy wth whech they hove at all umes given the use of the buidings to the clergy of the church of Engtand In the centril province of the sland a large proportion, ferhaps the majorty, of the Europenns employed th the superintendeuce of coffee cultivation are beothmen and Presbytering and a most important pount would be graned If the phices of worshap (of whel there are lamentably few throughout thest districts) to be hireatter ereeted by and from the public treasury, could be opentd on the prinaple wheh obtins an some of the West Tridion and Iustraban colomes, of their joint use by the musters both on the ehurches of Diglad and Scothod

As regarde the progress of the church of Eugland three new chuches have been sumbents advanced dunge the gear 1845 to ndmut of their bemg opened tor the solemnisatmotion Divne nurship and one Trmity Chureh, it Colombo, has lately been consecutad by the bu liop The new charch at kindy is far advaneed towarts completion, but oxing to injudicious management on the part of the committee the cost for archtecturai displivy has been much griater than was justhed bs the demand for chureh accommodation throughout the coloni A small church has havense been heensed at Notmdie anotho has been commencel at Nusera Ftha, and others are proposed at Badulia, Rambodde and Putim Two in the district of Butatgamme, it Ambagmoa and Gallinngalla ate to be served by Mr Sumons, the recently upponted colonal rlapinio, on has uival jointly with thit in kninualic In the nelmbourhood of Colorubo it is probible thit steveral not eliurchits will be buit by native Christans Appications have been mude to the bishop for elergymen fiom soveral very populous disericts, ard he hopes through the and ol the tho C inurch Missondry Societice to bu tuabled to cheotrige oo sery unusind und commend ble a proposal on the part of the ustise Conglese Wubre inc samt per od, the montratons of the charch have buen - irnci to maty of the wut statoms Putlan Calpentyn, and Chilaw are served by one
missionary, Bellegamme, Tangalle, and Hambantotte have been newly attached to the mission at Matura, Baticaloa is pisited from Trincomalee, Mananr and Mulletwoe from Jafina In the intertor, Komegalle, Matele, Cabragalla, Gampola, and Puselawa, have all been periodically visited by itmerant clergymen, the extent of country beng so wide, and the residents so scattered, that in no other way, and by no other meams, can they be reached
"As regards the Church of Scothand, a minister has, within the fast year, commenced his dutues an Kandy, where ample funds have been ramed for the bualdag of a churcb, which will, I trust, be shortly completed It is hoped that places of worship will be provided throughout thoge 'distriets of the Central Province where the majority of the European residents on the coffee estates are Scotch Preabytenans, but are at present entirely deprived of the services of a minister of their own persuasion
"As regards the adrance of converston amongst the mative population, aluough there is an external appearance of progress there 13 reason to fear that but little way has been really made in the establishment of a firm conviction of the truths of Christanity And it is a lamentable fact that multitudes who outspardly protess to be Chrishans and attend on the ordinances of religion, are equally attached to the superstitions of Buddhism, and resort to $1 s$ temples and priests upon every emergetsey
"At the same time the great body of the natises exlibit no antagonism to Christramty, such as prevals amongst the Findoos and Mahommedins with them the chite difficalty to be contended with being their agathy and undifference to religion of all kinds

Educatom - "Estimating the population of this ishand at a milion und a half the portion recerving edacation from approved sources does not exceed one-erghticth of the whole
"In all the government echools, in which there are upward of 3000 pupils, and a few of the mission schools Enghish ta taught as well as the vernacular langoagea, aud small though the number recerving thas the most desurable form of education may be vet there ts too good reison to apprenend that at present Eaglish edacation can seareely be carred with advantage much beyond its present extent The character of the natives is such, that it is only in localities where there is European superintendence that the dubes of a teacber of a langage of which the purents of the pupils are topuorant, can bu performed with any degree of attention or success
*Besides government and the missonary bodres, there are a great many wilage and temple sehools conducted by Buddlust priests and others in wheh the pupils are fought to read and wote the vernacular mach numbers that these attanments pureal to be as generally possessed by the Cingalese as in the ordmary communties of Lurope The number, therefore, who are in a condinon to proft by oseful books no the natue lan guages is very dufferent from the small fraction of the population given above is receiving education But it is a natter of deep regret that the books wbich form the curraulum in the priests and private schools are wholly of a legendiry character, puerle and unprofiable to the list degree and an a fanguage too, very diferent fion the vernoculat It is also a melaucholy fact thot there are scarcely any good and usefut boohs tu be found in the Cingalese tangugge To the department of transiation howeser, the school commission is now applying more sedulously than formerl, and a sum of $\mathbf{6} 681$ has been estimated for the seryice of the year in this department
' In connewron with vernacular edacation, the school commssion, under the presidency of the Bishop of Colombo, continues to give its services in the cause of educa tion as formerly and at has been ageed that thirty new vernacular schools shall be es tablished thes jear, if practrable, for which a sum of 11421 has been roted This wili te conducted by masters who duting the tast two years have been under tramogin the native normal acmingry, an instrution which is atmmbly conducted by the Rev Mr Kessen Here forty youag men and ten young women, all Cingahse, receve a

[^28]suitable education, and adequate subsiatence maney, at a cost not exceeding 7507. per annum.
${ }^{* 2}$ At present aboat one-fifh of the entire sum devoted to educational purposes (pia. 12,600l.) is apportioned for edueation in the vernocular.

Agriculduren-"Io Ceyion, agriculture in all its branches," must be regarded as an art almost unknown. Notwithstanding all its advantages in variety of soil, graduations of termperature, and adaptability of climate, the enitivation of rice may be said to be the only successful tillage of the natives. And yet with the favourable circumstances alluded to, and the expanse of surface to be applied, it is impossible to foresee the extent to which the praductions of nearly every other counsry might be domesticated and extended throughout this island. In the highlands and mountain regions, and particularly in the wooded valleys and open plains which are found at an elevation of from. 3000 to 7000 feet, there is an encouraging field for the introduction of most of the grains and vegetable productions of Europe, end from the limited experiments which have been made up to the present time, there is geod reason for believing that more exteaded operations would be attended with very beneficial resulta to the colony.
"In this conviction, the government has had numerous applications for lands in the tilla suitnble for the rearing of stock and European crops, for which a ready market would be found in the coffee diatricts and the towns and villages of the central province; and the intimation of your lordship's readiness to pernait the leasing of hends for these purposes is likely to give a rapid extension to such undertakings.
"Under the head of agriculture, however, the most important topic is that of the cultivation of

Coffee.-"The extent to which the production of this article has increased within the last ten years is very remarkable. The export to Englaad was-

"Coffee bas at all times been produced in small quantities io Ceylon, off trees planted by the raad-side, or mound the dwelling-houses of the natives; but it was never systernatically rased by them an article of commerce, nor wos its caitivation attempted on a great seale by Europeass till within the last few years.
"Native Coffee is atill brought to market in mmall quantities, but during the last year ita expert has greatly diminished, owing to its indifferent quality and low price in the Landon market. This is ascribable to the inaptitude of the nailye character for conducting its cultivation with eacrgy and success.
"A few Cingalese and native beadmen in the employment of gavernment have within the last few years, established small coffee plantations, in innitation of the EngJish, but as the situation and soil were notuchosen with skill or experience, they have not beea eminently queressful, a circumatance much to bis regretied, as disconragements which would acarcely affect a more energetic race, are all bat fatul to enterprise amongst the apatingice natives of this island.
"The quantity of land brought under coftee cultivation by European capitalists since 1834 will probably upproach 100,000 acres; but lands intended to be so employed, and now mare ar lass in pracess of preparation, have bees purchased from gavernment to the eatent of 400,000 acres.
" In almast every particular the cultivation, even on this extended seale, has been essentially an expariment. The possibility of procuring laboar, the means of transport, the quality of the crop, and its favour in the home market, were all pointe to be ascertained by experience; and in addition to these, the climate itself, the nature of the soil, the geniality of the temperature, the treatment of the plant and its probable duration, have all bcen matter of uncertanty and speculation; as no other producing country presented a direct aoadogy either in the character of these requisites or in the proportion of their combination,
"Boils ia Ceylon which appeared favourable were attempted, but abandoned after proofs of unsuitabality. Apparently luxuriant localities were cleared and planted, but
only led to a smolar result, as forest land alone has hitherto been found to answer the purpose, the richest grass land m its momedate vicinty falling to produce a crop of coffee, and even forest land, where it lies over clay or any mpermeable basts, bas beln proved unfavourable to the more delicate plant

* Again, rich forests have been cut down in the lower ranges of hills and converted into plantations, but though the coffee tree grew luxuriantly and rapidy, it falled to yield frutt in proportion, and speedily ceased altogether to bear domonstratiog the necessity of altutude and its accompanmments of motsture and temperature
"Observing that native coffee grew best under the shade of other trees, and that in Jwa and elsewhere plantations are so formed, shade was at first resorted to in Cevion on the larger plintations, but contrary to calcolation and example, the result was unsatasfactory and the trees wete removed, frequently to the destruction of the plants beneath them

4A combination of zich soil, a lofty elevation a wartn sun and regular rains have beem now ascertaned to be the man desiderata, but even when these are apparently combined, the estates on different aspects of the same mountrm, though with equal sosl, and to all sppearance alike in climate and temperature, have been found to exhibt totally different results, those to the north east and south west, having the fult advantage of the rains in the two monscons, whilst those of the opposite extremities are partially deprived of it Again some estales with eyery favour of altitude and motstore, are swept by untimely winds to the deatruction of the trees and in some districts which are sffected by only one monstoon, and lose the benefit of the other the coffee, though in external appearance equal in every particular to the best, us found so deficient in solndity, afier beng cleared of the $p u l p$, as to require one-third more by measurement, to make a given werght, the difference being neveitheless chargeable with a due proportion of every attendant expense
" Cxperience alone, sometimes at variance with theory and calculation, has demonstrated that all these, and an mafinty of other and minuter particularg, each more or less affecting the cost of production, and the quality and price of the produce are incident to particular localities, and the discovery lus naturally led to the total or parial abandonment of $1 t$ satuated estates, and proportionate extension of those positions ascertaned to be more favoured, and as the wross quantity of land, already brought undet coffee cultivation, or purchased with a view to it bears but a small proportion to the great extent now demonstrated to be sustable for it, but hitherto unapplied, there is every reasou to conclude, not merely that an enbanced value has been muven by the experiment to those situations which enjoy the requisite combination of twaritages but that these are of so considerable an expanse as to present an ample field for investment, and to supply the fallest demand which is likely to arse in the European market for the coffee of Ceylon

Projected Ceylon Ralroad -_"The number of bullock earts employed on the Kandy road, alihough trebled wathm the last four years, are stil) found msuffictent tor the planters wants Even in May, 1847, it is calculated that with all the avallable means of transport kept constantly at work on the mam roads, it will still requre a pertod of four months longer to bring the coffee of $\$ 846$ from the interiot to Colombo, whereas, looking to the approachng unfavourable weather the whole of it thould have long ance been in store there, and the greater part already sbipped for Europe Many mercantile firms have stall to ship two thirds of therr crope, and tho e two-thuds must necessarily be deteriorated by five to ten per cent, in actiltion to the moterest at mine per cent on the value of the produce thus detamed, in addition to which, as the season advances, shppiog is becoming searcer, and freght risiog day bv day
"It was a foreshadowing of these coming embarrassments which led to the formation in 1845, of a provisional commitee, for the purpose of organsing a ralway company for Ceylon Vartous lines of road have since been surveyed, and a favourable one selected, along wheh it is stated by the engineer of the company, that the ratway may be carned from the coast at Colombo, to the central capital at Kandv, in the heart of the coffee distructs, at a gross outlay of $800,000 l$, meluding several costly bridges and $a_{n}$
extensive wiaduct. It is suggested, however, that the move expensive portion of the work at the Kandy extremity, where the line begins to atcend the hills, should be delayed, and only those portions more easily accomplished finished in the frst instance, so as to give about sixty-five out of eighty miles, for an outhay of about $500,000 \mathrm{l}$. ; the remainder to be completed hereafter, and in the meantime the ordinary vehicles might be employed at both ends of the line.

Conveyance Company,-*This Campany is progressing, and wihevery prospectof auccess. Indeed it can scarcely be otherwise, for solarge is their interest in coffeeestates of most of the sharelolders of the Company, that their own produce alone is amply sufficient to employ the establishment of the Company to a considerable profit, even allowing for lower rates arising from their competition with the native sarriers. Their intention is to import bullocks from India, build carts of a peculiar construction, and organise a regular line of communication between Kandy and Colombo, the distanguishing feature of the undertaking being to supersede the long and tedious journeya now made by one pair of oxen from end to end of the line, whereus the conveyances of the Company will be expedited from atage to stage, by relays of cathle, thus reducing the time romsunad from eight to ten days, to two or three, and securing the coffee from pillage and deterioration during its present tedious detention.
"Simultaneously with these efforts to facilitate the means of carriage, a material reduction has taken place in the outlay on estates for management, salaries, and other incidental expensea; consdence is being gradually restored.
"The character of the Ceylon produce is rising rapidly on the continent, as well as in Inglaud ; and I bave just heard of a considerable order for coffee on French aucount, now execuling in Colombo; the first, I believe, that has yet been shipped from the island for that destination. But unfortumately, as few French vessels touch here, thin coffee has to be shipped in the first instance to Pondicherry, and will thus reach France, burdened with extra charges for freiglta and insurance.
"Sugar has been attempted to be cultivated on a considerable scale in Ceylon, but as yot with only problematical success. Between the year 1837, when the first estate was opened, and the present time, same ten or twolve plantations have been attempted, and capital applied, varying in each case from 50001 . to $25,000 l$; but even the most promising of these is still but experimentary, and most of the others have been abandoned.
"The estates attempted in the alluvial soils and near the banks of rivers bave been bitherto the most promising, and next to them, those in the moist fands which had formerly boen employed in the cultivation of rice. The plantations in elevated situationa have all been more or less unsucceasful, and even the fineat forest land seems speedily to lose its richuess after yielding one or two crops of canes. The plant rises with great lexuriance and apparant vigour, but the juice, when expressed, is found to be deficient in saccharine and crystallisable matter.
"Improved treatment, and the use of manures may, perhsps, remedy this defect; but the latter is dificult to procure, owing to the limited use of cattle in agricultare, and the great expense attendant on all artificial substitutes.
"There are still many unatempted soils in the unexploned parts of the island which may exhibit different result, butitup to the present time, sugar has not been an encouraging speculation, and the island is still dependent for its own consumption on the annuai supples from the other Brilish possessions. These are, to some extent, displaced by the native growth, bult only in the inferior qualities, and in situations where the cost of carriage places the imported sugar at a disadvantage compared with the price of that grown in the interion.

The Cocoa-Nut Palm.-n" The cultivation of this tree bas, of late years, become as important as an article of commerce and export, as it has always been as an article of food and home consumption to the inhabitants. During the last six yeara, between 4000 and 5000 acres have been planted by Europeans, and land suitable for this purpose is still in demand. The produce of these 4000 acres may be estimated at 4000 candies of copperabs, capable of yielding 550 tons of oil, and this at a very moderate

[^29]calculation These new estates lie chiefly in the distrets of Negombo，Jafina，and Baticaloa，and when the addition thes made within so short a period is taken anto con－ sideration along whth the prodigious extent of native plantations previously existiog， which extend in a belt along the western coast of the island almost from soutb to north， and on the east as low doun as Batticaloa，an idea may be formed of the prodigious capabihtres of Ceylon in this one article now rusing into so much demand in Europe Large establishments for crushing the oll by steam have been opened at colombo，where It is shipped to England for the manufucture of cundles by compression
＂By the recent mprovements 11 cultuvation introduced by the English speculators， the trees are now begmong to yield fruit in the fifth year，whereas native plantations seldom bear before the muth or tenth Unfortnnately the years 1845 and 1846 have been characterised by unusual drought in the low countries，and the cocoa nut crops have been so deficient in consequence that the export of native of has sertously decined，but is certam to revive The consumption of the nuts for food has lokewise greatly increased， owing to the niflur of Malabar coolies，and as the demand for this purpose must always be steady，the culivation of this important tree may be looked on as one of the safest mevestments in Ceyion
＂The export of Cour（the fibre wheh linas the husk of the cocoa nut），and its manu－ facture into ropes and cordage，have sumultaneously mereased But the rudeness of the process，and the want of proper machanery，must always be a check on its improwement and extension The subjomed return shows the export of cocoa－nut oul aud cor for each year stnce 1837，and under the former head exhibits the dimmution I have alluded to as occasioned by the recent droughts

Statemest of Cocoa nut Ol and Cor exported from Ceylon m the ten Years ended 1846

| YINTS | COCOA KGT |  |  | COIH |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Oumnty | Yalue | Duty | Quantity | Value | Ducy |  |
|  | Efllong tagks | $x \rightarrow d$ | ¢ 5 d | 6mt 9 CJ lb | E ${ }^{\text {c }}$ d | $\boldsymbol{e} 5$ | 4. |
| 1037 |  | 就334＊ 11 | 1087 | ar 7at 3 | 息150 17 年 | 20.10 | G |
| 18385 | 292，600 885 | 105031 | 4165 | 新495 514 | 92901614 | 0395 | 1 |
| 1839 | 35348 | 2530170 | 00.18 | 2219510 | 77411311 | 19311 | 0 |
| 18.80 | 4.142 | 52982164 | \＄12 16 | 23 44f 324 | 7191 | 13179 | $T$ |
| 184） | ＊${ }^{1} 100$ | 2115145 | 6al 119 | 2154312 | 713158 | 1785 | 6 |
| 1842 | 475.516 | 51242117 | 85614 | 26130 30 | 10.162 .7 | 2541 | 1 |
| 1843 | 720 2014 | 43.3179 | 1696170 | 22， 1887 | 91181610 | 2719 | 6 |
| 1844 | 44．1301 | 24 165159 | col 136 | 25.57005 | 40460 | ¢42 12 | 4 |
| 184＊ | 282186 | 13，915 110 | 398127 | $14.10 \quad 20$ | 529580 | 2057 | 3 |
| 1840 | 129041 | 93067 | 193） 9 | 29197219 | M3\％ 1310 | 218. | 4 |

Cotton－＂The cultrvation of this article has hitherto been very limited，and con－ fined almost excluswely to the northern parts of the asland，where there is reason to feir that the most suitable soils were not selected，nor the most approved details of cultirition adopted But now that the success of the great cotton experinent of the East India Company has been pretty well established in several parts of thert pocsesstons，and when the consumers of cotton in England are lookng to the east for a more certan supply than that wheh foregn countries afford the cultuvation in Cugion oflers a far field for agricultasal mdastry Dr Gardner，the able superintendent of the Ceylod Botabical Gardens（who has sein much of colton culturation both in the northurn provinees of Brazt and in different pants of India）and who lately visted the northern and eastern portions of Ceylon，has stated in some remarke which he bis＇published on the subject， that there are large tricts in that part of the sland called the Wanns，wheh he belases to be admarably adapied to the production of colton＂

Tancomalee is one of the finest harbours in the world This was the opimon of Nelson It is strongly fortified

Colombo，the capital，is situated on the west side of the asland It is also
strongly fortified The harbour is far from beng good Population above 30,000

Poivt de Galee has a good harboun, at the south end of the island, and is strongly fortifed The Pemnsular and Oriental Marl Steam Ships stop here on their way to and from Calcutta, and a branch lue proceeds from Coglon, Sungapore, and Chma

Ceylon has alwars been famous for its cemnamon and its pearl fishenes
Tire population of Ceglon in 1835 comprised the followng numburs -

| あ butge <br> Pres Blacto <br> sl cs <br> Ahens and Fendent stragigars | $\begin{gathered} \text { number } \\ \text { of } 5145 \\ \text { rivit } 14 \\ 14104 \end{gathered}$ |  | $\begin{array}{cc} \text { Dun beer } \\ 121 \\ 1111 & 192 \\ 2 & 5 \\ 1 & 15 \end{array}$ |
| :---: | :---: | :---: | :---: |
| Totat | 616 10.9 | 584, 131 | 1241 N |

It is supposed that this number his increased to about $1,500,000$ The native population consists of Beddahs or Veddahs, the aborignal mhabitants, who live without clothes or houses, in the great forests, then food consisting of wild fruts and the produce of hunting, \&e Cingalese, descended from the Rajpoots of Inda, occupy Candy and the soutl-west and south coasts of the ssland Mulabars are settied on the north and east coasts, and the Mussulman descendants of the people of Upper India, -the list are dispersed over the island There are also Chinese, Javanese, Malays, Caffres, Parsec tıaders, half-caste descendants from native mothers and European fathers, and Portuguese, Dutch, and Enghsh The Cingalese are in religion Buddhists, and the Malabars are Mindoos

Goverament-For some years after its capture, Ceylon was under the control of the Last India Compiny, but from the begmong of 1802 it became entuely a royal government, and was placed under the immednate direction of his majesty's mmsters, who now regulate the affans of its settlements The executive council is composed of the governor, the chef justice, the commander of the forces, who is also heutemant governor, and the secietary to government There is also a legislative counchl, wheh moludes the members of the executive council, and thirteen other members the other cowl ofteers are assistant colonal secretary, treasuet, auditor, collector of custons, and several suborduate offices There is a miltary estiblishment with a commandex-m-chuef of the forces In lsoz a supicme court of judicature was established consisting of a chief justrice and a pusne judge, mneved to it are his majestys adrocate, registrar, shatrili, aud other ohcens The chef justice tahes precedence of all his majestys subjects on the island evcepting the governor, the commander of the forces ranhs uevt, and ifter him the furse and district judges

Tha followng is an Aeconnt of the Rerewues and Disbursements of Cerlon durrog the perod it was under the control of the East India Company－

| Y BARE | B E B A TES | Dis Btas SmEvTS |
| :---: | :---: | :---: |
|  | Pagodas | Pagoday |
| Nov 179 to Aprit 1996 | numb ${ }^{0} 5$ | cunbe <br> 707616 |
| Ney 196 | 7 152673 | ［9 15 |
| 17971798 | 605623 | 57637 |
| 1790 | \＄ 3 3， 375 | 351045 |
| 1790 1300 | 9，83 549 | － 2 cen |
| 2800 J J801 | $7{ }^{70} 3000$ | 30090 |
| W831 to lee 1801 | 5，40 287 | 5，2150 |
| Total | 5005509 | 44 31，867 |

The receipts include the revenues of the island，and the remittances from the governments in India，or disbursements made there on account of Ceglon The disbursements contamed the general charges of the itland，but it is appre hended that only the extra allowances to the thoops were mserted，and that the regular pay is included in the accounts of Madras，\＆e

After the island had been in the hands of government untal 1813，the dis bursements are stated to have amounted to 330,0001 ，and the revenues to about 230,0001 per annum In this statement of the revenue，the produce of every source is included，sllowing 40,0001 as the average gain by the pearl fisheries， and the 60,000 the East India Company pay yearly for connamon，the rest of the revenue is derived from rents of land，marhets，and fisheries，taxes of various kinds，and duties on imports and exports－Miloune

Nett Revenue and Expenditure of Ceylon for Fourteen Years

| YEAES | Reyomue | Expeoditure | Sxaesos of Ex penditure | 1 EAES | He cout | Rependature | $\begin{gathered} \text { Dxcess frx } \\ \text { Fu diture } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1011 | 501758 | $41{ }^{5}$ | 169491 | 18150 | 34804 |  | $\stackrel{5}{40.450}$ |
| 1812 | 97810 | 370.401 | 99041 | 1817 | sooto | 41t 95 | $70+1$ |
| 1813 | 340806 | 491770 | 170 U70 | 1818 | 339，404 | $45+4.6$ | a） 61 |
| 181＊ | 352，416 | 408， 308 | \＄f 1233 | 1819 | 342075 | 4 4．${ }^{\text {a }} 40$ | 13.545 |
| 1815 | 375， 757 | 311 434 | 13 い 7 | 2870 |  | 476 cost | 1831 |

Yet the excess of expenditure in the latter years of the finances of the colony， as stated in the Ceylon almanac for 1833，ghes the sevenue and expenditure from 1821 to 1833 as follows－

| T $\mathbf{F}_{\text {A }}$ | Reverso | $\operatorname{lempindi}_{x}$ | Bx ean of Revebut | Exeoys of 5xpmad tur | $\boldsymbol{\gamma} \boldsymbol{\gamma} \boldsymbol{*}$ | Atvenut | $\left\{\begin{array}{cc} \text { Exp } \\ \text { tute } \end{array}\right.$ |  | ExC shot Exp ndi tura |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1891 | 450 | 48 85 | 4 | 家 155 | 1827 | 20， 23 | 11164 | $F$ | यद |
| 367t | （f3，cid） | ＋ $7 \times 336$ | 13，328 |  | 1424 | 14.512 | \＄3．Sis |  | 32， $6+14$ |
| 9623 | 5\％ 404 | 476112 |  | 14935 | 158） | 1） 3.54 | 314 $\dagger$ | 4171 |  |
| 1.14 | 387845 | $441 \$ 32$ |  | 却 30 | 1850 | 10， 175 | 34，679 | ＋16 |  |
| 1325 | B45 310 | 423579 |  | 149709 | 1531 | 174270 |  | 730．0s |  |
| 1816 | Y7＊ | 3fat |  | 115451 |  |  |  |  |  |

## Comparatree Yeariy Statemeat of the Reyonse of Ceylon，from 1833 to 1836

| SEPATITE TAX OR DTTY | 183n | 18\＄1 | 18.8 | 1886 |
| :---: | :---: | :---: | :---: | :---: |
|  | $\cdots$ | 4 | $\pm$ | 2 |
| Tepende patan a entatasifing veruvered | 5 | 4050 | 5719 | 4413 |
| Conmmon and cinpamod ofl（balanes of ames in Euglame） | 105，511 | （6） 478 | 21000 | ＋13 |
|  |  |  |  |  |
|  | 4415 | 103 380 | 66578 | 68418 |
| lup te duty on exanmmon |  |  | $47 \times 10$ | 74 515 |
| Sal offtonamont | 50.58 | 9679 | 7） 0 A9 9 | 42484 |
| 1）idy fartu reated and unientord | 32706 | 41414 | 32840 | 32 他 |
| Finugrivio forms ditl ditio | 24 | 3150 | 2.700 | 1734 |
| （ is deaformas ditto ditio | 1.103 | 549 | Atm | A56 |
| Salt ta rex ditt ditt | 7 \％ 14 | 31.42 | 32 dar | 31 的教 |
| Arrack and toddy farmat ditto | 3108 | 35260 | 313981 | 3776 |
| Fi tiamas | 4.480 | $6 \times 57$ | 083 | 712 |
| Chask firem | 15 |  | 1211 |  |
| Ferry I AB eand ard lock tails | 3,020 | 5615 | 8762 | 5.06 |
| Duts marrack atil］s | 15.4 | 4．484 | 1）－ 24 | 2305 |
| $P$ a 1 fial rry | 95043 |  | 40345 | 2585 |
|  | 3，141 | 235 | 2710 |  |
| whe oí quilitial atampo | 10172 | $10 \quad 36$ | 10709 | 10,41 |
| （ licet a t postage | 1 m 53 | 4 45 | 7 7 78 | 2807 |
|  | A 371 | $\bigcirc \mathrm{Cl} 2$ | 7730 +430 | 9，87\％ |
| R rt mit lo flandsan！h seat | M13 | \％ 4 ， | ＋ 420 | 51.5154 |
|  | 23107 | 3131 | 29.205 | 2 59 |
| Meschutwons | P91 +2.1 | 15030 | 20 +5.97 | 715 |
| Totas | $4{ }^{3}+2 \mathrm{CHO}$ | 33700 | ＊8．184 | 406.373 |

The accounts of the expenditures for these years，and until later years，appear too confosed for us to miroduce the same，and we consider the following state ments sufficient in order to understand the present fiscal state of Ceylon

## Ablract from the Offical Account of the Revenue and Eapenddure of Ctydon， for the Iear 1846

－Compared anth the resenue of 1845 ，the rceepts of 1846 exhibt a decrease， under pirtcular beads，amountang to 510891 and，after deducting from this a simultateous morease on others to the extent of 133471 ，the returns still show a diminution of meone equal to 37,7421
＂The man sources of lacone the sta customs，the salt sales，and the stamps and excre，evinit no tendency to dechne those in which a fluctuation has been per－ ctplible，are rather the canual than the permanant sources of atome

The terenue and recepts of $18 \%$ ，ware Ilsose of leyt

$$
\begin{array}{ccc}
f & s & d \\
4,1146 & 6 & 6 \\
416409 & 10 & 24 \\
\hline 57742 & 11 & 54
\end{array}
$$

－The folling off in the proceeds from the stie ot government lands，accounts for $34,8920^{3}$ ond of this sum
－Inother them which eaters mothe deareace of 1546 is 6479 l is 9 d arising from the sale of a resudue of the old stock of goeernment cinnounon but this miy propers be re，atded as a casality that sonice of income baving ceased with the aboluan of the government nonopoty

In the tax upin piddy ard fine gran farms there was a falling off of 4002 its $10 \frac{1}{3}$ owing to a drumathed pruilaction，oceasoned by the untoward drou．h＇of the seison
－On arrack and thdidy farms thare was at s a deerease of 2768 but as these are alisins sol i by public conpitition，thar sale so hatie to be affectad by exterual and oftita cipricious cases othronse mexphable

Allir deductug the rorrea od heads from the gross deficuency of the year，the aet diantition of meome， $37,742 l$ will be exhbited as tollows－

"The uncrease of the tocome of salt has ariset, not merely from no increased activity in the trade in that artucle in the anterior of the island, hut lakewise from an increased exportation to Bengal, and the Strats setulement The recent great reductions of duty on Indian sait in India, will oceasion the export from Ceylon to elsewhere

Expenditure - -" As compared with the expenditure of 1845 , that of 1846 exhors an merease of nealy 50000 C Expenditure, $1846,498,205 \mathrm{l}$ 8s $10 \mathrm{~d} \quad 1845448232 \mathrm{~L}$. 118 lod Increase $1846,49,972 t$ 17s And as compared with the recerpts witho the year, the outlay exceeds it by upwards of 80,0001

Revente and Expenditure of 1846

"As compared with the expenditure of 1845 , the merease to that of $18 \pm 6$ is accounted for under the follownr heads -


Puble Works - 'It the department of Pubhe Works, viuzble progiess has been made during the past ye ir, the adisntages of whach woll be inmedite and pumanent
"Dursig the ealy part of 1846 , extensive surveys were made of the cinvamon plentations which extend on all ades around Colomba
"In the central province 1 map of one drstrict, embriong 30,000 actes has been neariy completed and smoultaneously $w$ th the scientitic edvantage thus sucuted, allotments of crown lands, to the extent of 2600 acres, have been defined and party disposed of
"In the town of Budulla, several new streets have been opened along whech allotments have been surveyed and sold, and plans have been prepired for the parpose of enabling the goverament to issue grants in perpetaty to persons who have occupled hand in that town upon temporary certificates, or who clam prescripuon
"In addition to surveys of ninety tracts of land, containing 4770 acres, wese executed doring the some year for various purposes; either for sale, for the arrangement of contending claims, or for special reports to governmens.
" In the eastern province, seventeen allotments, containing 5425 acres, have been survesed for sale; and in the northern province, upwards of 1000 acres. Some progress bas also been made with a minute suryey of the town, and gravers of Jaffna.

Roads.-" The extent of roads in Ceylon in 1841 (including the entire coast line from Putlam through Jaffa, Trincomalee; and Baticaloa to Hambantotte), was 15,722 miles; at the end of 1846 it was 2358 miles; 786 miles having been opened during the Gue years.
"It is necessary, howerer, to explain that atong the 538 miles of coast abovementioned from Putiam to Jaffoa, and thence down the eptire eastern coast to Hambanwote the road consists of nothing more than a time-worn tuack, for the most part over arid sandy flats.
"But the 786 miles opened are through all varieties of country, and differ in their state of compietion, from that resulting from an expenditure of 200 , a mite in the low flat countries, to that of nearly 600L. a mile in some of the mountain districts. The following is a statement (iractions excluded) of expenditure on roads, and amount of tolls from 1842 to 1846:-

| DESCRIPTION. | 18.48 | 1843 | 1844 | 1845 | 3815 | Terat. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brpenditury memernene, <br> Talle............................. | 架, 519 | 24, ${ }^{\text {5 }}$ | 25, ${ }^{5}$ | 87, 408 | 0t, ${ }^{\frac{5}{8}}$ | 201,62 |
|  | 10, $12 \times 8$ | 16,0180 | 19,383) | 27.230 | dry | [07,093 |
|  | 12,159 | 8, 275 | 18,049 | 29,878 | 88.196 | 94,653 |

Civil Engineer's Department.-"Ot the public buildings in progress under the Civil Engineer's Department during the year, the prisons are the most important. The new criminal gool at Wellicadde, two miles from the Fort of Colombo, has had an addition of sixty separate chambers or cells io one range of two stories divided by a corridor. Two wings have been commenced containing each twenty chambers, and these are to be connected with the main range by an observatory, on the Panoptikon system. A wall sixteen feet high encloses the premises; 200 criminals are confined, and being taught, under the instructions of the Civil Eagineers' Department, to work as artificers, \&ec.; they have been extensively employed in the buildiags now in progress at the prison. - Witside the walls a guard-house, store-room, and cottages for overseers, and other works bave been constructed. The whole will be finistied at a cost of 44001 . and will, when completed, be the best arranged and most secure pablic prison in the East.
"At Hulfisdorp, in the immediate vicinity of the suprene and district court houses, a prison has been built at a cost of 38001 .; it has eight wards for the confioement of ninety-sis cind prisoners and women, and twenty-six chambers of twelve by eight feet for persons under trial for criminal offeaces.
si Extenstre alterations have been made at the gaol at Kandy, at an outhy of 10001. A loek-up house at Matele has beate ealarged at a charge of 2001, and another at Kaigalle, on which 2901 . hàs been expended.
"A lunatic asylum is far adranced towards completion at Colomba, at a cost of 42001, wh accommodation calculated for 120 patieats, and residences for their attendants and wedical oficer.
"The supreme and district court house at Jafua has been thoroughly repaifed, at a cost of 3501 . A wesidence is now in course of preparation at Jaffac for the judges on circuit, which, when completed, will cost 800 . At Kandy a commodious poheestation house has been consiructed for 680h., and another at Kaigalle for 540 l,
"At Peradenia, near Kandy, a new resadence for the superintendent of the Royal Botanic Garden has been crected at a cost of 8001 ; and as Colombo, a range of pubitic ofiees, with accommotation for the civil engineet, the surveyor-general, and the commissioner of roads, have been naarly completed by private contractory for the sum of $3800 l$., voted by the Legislative Councid.
"An addition has also been made, at a cost of $780 l$, to the government printingoffice, to give room for the bookbinding estrblishment and records and a record room and other addutons have been made to the Colombo cutcherry, and its oflices, at a cost of $840 l$ There is still, however, not sufficient room for the tumerous records of thes office
"At Kandy, an office has been created for the Civil Lagineers Depariment, at a cost of $340 t$, and at Nuwera Litha a commissariat store-house i, in progress on an estanate foi $1570 l$, superiotended by the Royal Engmeer Department
"In the Fort of Colombo, a large upper-roomed buiding with offices has heen erected at a cast of 18901., as a rest-house, and let to an hotel keeper at an anagi rent of 1 lol .
"At Kurnegalle, a rest house and offices have been buit at a cost of 500 L , and at Matele, sizteen mules from Kandy, on the Trincomalee road, a rest house and offices have also been built at a cost of 7601

- Five masonry bridges, of from ten to thuty feet spart, have been erected at Colombo, Cotta, Parataraka, Negombo and Ttncomalee, at an exnense of $852 l$ A fine bridge of two arehes, each thrty five feet spin, has been thrown across a dangerous rover, the Talata Oya about four miles from Kandy on the Trincomalee road, at a cost of $\mathbf{1 9 0 0 l}$, and 2700 L have been voted by the legislative council for the repars of the great wooden brugge across the Mahawella ceanga at Peradona
"Important improvements have likewise been made, at a serious cost, th the town of Kandy and the unfortunate frequency of the visits of cholera durng the last vear and zts ravages amongst the European troops will reader further expenditure andispensable for the completion of the sewerage, and the umprotement of the arlifictal lake to whose noxious exhalations much of the prevaing disease has been, with too much apparent Justuce, ascribed "

Notwithstandug the glowng accounte given of the revenue and expendenre of Ceylon, both appear to us as requiring great reviston

Cinnamon-"c The best cmnamon is known by the following properties, it is thm, aud rather phabie, it ought to be about the substance of royal paper or somewhat thicker It is of a hight colour, and rathet nuchnable to veliow, bordering but hule upon the brown it possesses a sweetisi) taste at the same ume is not stronger than can be borne without pan, and is not succeeded by any after taste. The more cmnamon departs from these characterssics, the coarser and less servieable it is esteemed, and should be rejeeted if it be hard, and thick as a half crown piece, it it he very darkcoloured or brown, if it be very pungent and hot upon the iongae, whin a taste bordering upon that of cloves, so that it cannot be suffered without pan, and so that the mucus upon the tongue is consumed by it when several trals are incle of ot or it it hay any after taste, snch as to be harsh, beter, and muchaginous Particular care shonld be taken that it is not false packed, or muxed with cinuamon of a common sort

- This apice was known to the anctents long before nutmegs or cloves 101621 no mention is made of cumamon as an orticle of import from India The Portuguese beng in possession of Cevion, it was to be procured only at Liston in 1686 the Datch imported from the island 170,000 bs of einnamon which is stated to have been rather jess in quantity than in some preceding years it wauld be difficult if not impossible, to trace the quantites brought into Durope at this eariy period In 1730 at appears the Dutch imported in ten siops 640,0001 bs In 1776 the King of Candy $a_{a}$ reed to delver to the Dutch all the cinammon wheh grew in his territores at five pogodas per bale of 881 bs In the five jears, 1770 to 1779 anclusive, the amount sold on an averuge was 380,0001 bs per annum
- The following is an account of the quantites of cinnamon sold at the Dutch East lodia sales in the years 1785 to 1791 inclusive, together with the sale umount in each year

| Y A R 客 | Qunnthy | Falde |  | Quntity | Falue |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jbs | (159 |  |  | ${ }_{\text {E }}^{\text {E }} 18$ |
| 1785 | 3990040 | 159170 | 1799 1700 | 4\%100 | 231 85 |
| 1766 | 153040 | S80 005 | 1700 | 183764 | 100235 |
| 1787 | 141000 98500 | $4 \% 170$ 243765 | 1791 | 183704 | 100235 |

＂In 179a，on the capture of Ceylon by the English，the East India Company paid 180，000t，to the captors as the value of the cinnamon found in the various storehouses on the island．
＂The following is an account of the quantities of cinnamon belonging to the East India Company，sold at their cales，in the years 1808 to 1810 inclusive，with the sale amount thereof，likewise the quantities retaised for home consumption，and the nett revenue collected thereon．

| Y家ARE8 | Marnh Smle． |  | Sogtenober Sala， |  | Torat． |  | Phtalned． | Botretub nett． |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ibs， | 4 | 13： | $\pm$ | Ibl． | $\pm$ | 16\％ | 里 |
| 1006 | 128.078 | 27，403 | 138， 394 | 26，201 | 955， 67 | 6．3， 514 | 8，769 | 676 |
| $\underline{1805}$ | 158，507 | 34，3y］ | 109， 108 | 44，150 | 6＊57，488 |  | －9830 | 2084 |
|  | －23， 428 | 6， 280 k | 17 1 ， 500 | 43， 573 | Y00，406 | \＄2，战5 | 6.687 | 1468 |
| $1804{ }^{\circ}$ | 186， 45 | 90.111 | 140，001 | 92， 105 | 904， 103 | E1，216 | 10，389 | 3513 |
| 1805 ． | 1854， 182 | 48.587 | 198671 | 07，014 | \＄P6，7＊ | 116,541 | 7，974 | 9488 |
| 1300 | 167，917 | 57，37 | 1648814 | 57,600 | 84，汭！ | 114，974 | 13， 1 \％ 6 | 8615 |
| 140］ | \％89， 967 | 72，654 | 90\％${ }^{\text {a }}$ ， 655 | 4，779 | 683 D014 | 59， 5 ， 620 | 10，267 | 848 |
| 1810 | 180,134 | 75.408 | 122，820 | t0，133 | 303， $9 \mathrm{R4}$ | 123，${ }^{2} 4$ |  | 晈18 |

The following is a stetement of the cinnamon exported from Ceylon，to the year ending 3lst of December， $1844=-$ First sort， $32,6568 \mathrm{lhs}$ ；second sort， $210,154 \frac{1}{2}$ libs．；thind，sort， $100,789 \mathrm{lbs}$ ； quality unkrown，697，32L the；；total， $1,041,820 \mathrm{Jbs}$ ．

Memonandum of Government assorted Cinnamon in the Warelouse at Colombo，on the 8lat of December， 1844.

＂The production of the present year is likely to be but small，many gardens having been quite neglected，owing to the indifferent prospects of the trade．A few properties only have been carefully attended to，and kept in good order，and in these the produce will probably be large，and of good quality．Bus the wild or jungle cinnamon has ceased to be pealed for the last two yeare，nor is it likely to be resumed so long as the duty remains at its present high amount．In fact，altbough the goverament monopoly of sales was abolished，and the gardens sold by pubbic sale，the monstrous export duties have nearly ruined the cimamon plantere．＂

Other Spicas．－＂Hitherto the cultivation of spices，except cinnamon，has been scarcely attended to，thougb both the soil and climate sppear，from the littie which has been done， to be admirably ardapted to their mare extended production．Within the last few years， a few small planations of cloves and nutmegs have been established from plants and seeds supplied from the botanical gardens at Peradeuia，and the result is looked forward to with great interest．Cardamoms and ginger might also be successfully cultivated to any extent，and would be a profitable occupation for the matives were they as industrious as those of the Malabar country，where both these articles are exteosively cultivated．The came observatlons apply to different kinde of plants which are valuable as dye－stuffs， such for example as the choya－roos and the indigo，both of which ate indigenous to the soil．＂

Chacalate．－＂Chocolate is another production which might be extensively cultivated here，particularly in the hot and humid parts of the low country，which Dr，Gardner states to be very similar to those parts of South America in which the tree is so exten－ sively cultivated．There is a saall plantation in the botanical gardens，but at that elevation，gearly 2000 feet，the tree does not grow freety．A considerable quantity of
seed 15 , however, now produced annanilly, from wheh plantations could be established without difficeity "

Tea -." The teaplant has lately been culuyated to some extent by the Messrs Worme, the most enterprisiog planters in the sland, at thers estate at Pesalawa The chmate of that district, which is about 3000 feet above the level of the sea seems well adapted for the growth of the plant, but the very great difference between the price of labour in Ceylon and China will, it is feared, prevent its profitable cultivation"

Timber - 'The forests, especially in the interior, and on the eastern side of the island, abound in magnificent trees, many of which are well known to be valuable, not merely for economical purposes, but from theur extreme beauty and sutability for cabinet work As yet, Jess attention has been directed to the productions of the forests of the meteror than to those of the coast, and ebony is the only export, and even thes to a triting amount ${ }^{\text {, }}$

Rice - ${ }^{4}$ In former tumes, ree was much more extensively produced in Ceylon than it now $3 s$, more especially in the northern parts of the tifand, the decrease beng obvously connected with the decrease of the Tamil population in that quarter from political causes All that appears to be requiste for the extension of the cultuvation of this essential arucle of food, is the rematroduction of that industrious people, and the restoration of the tanks which have fallen into decay, for the purpose of urigation.
"Ceylon has this year however (1847), exhbited the unusual circumstance of an export of nee to Greac Britain This has arisen from the extraordinary demand, and the bigh price of bread stuffs at home, and advantage hos been taken of the favourable state of freghts as compared with Bengal, to re export to England grun which had been moported for consumption in the colony

The Ceylor Botante Garden --"The attention of its supenntendent, Dr Gardner, has been directed not merely to scientific anvestigatioo, but to the minoduction from other countries, and the acchmatised cultuvation of such exote plants, as are hkely to add to the agricultural wealth of the csland

4 Previously to the armval of the present supermtendent, who was selected by Sir W Hooker, the garden had been so neglected as to be ahnost valueless to the colony By Dr Gardner's attention and exertions, it is now one of the most flourishing and usefu! institutiposin India, large comrseries have been established for the propagation and distribution of useful planta, which are sold at a trifing price to the public, and numbers of foretgn trees aud vesetables have been successfully introduced The resultbas been that hundreds of thousands of trees and plants of all descriptions, have been disperged throughout the island, at a very moderate cost to the Government. Dr Gardiner is lakewise engaged in the pleparation of a 'Flora Ceylontea, a work which will contain descriptions of all the plants indgenous to the sland, so far as the can obtan them and thus make known to the actentitic world the bistory and uses of the vegetable productions of a region, of which less 18 known to the botanists of Curope, than any other portion of India of equal extent

Monerah - "With the exception of a very brief shetch in Davy s 'Ceylon' nothng has been published, and buthe is known of the geology or moneral productions of the asland The formations are essentually promitive, and preane but few features of novelty guess being the principal rock Dolomite is found in isolated positions in the interior and us the source of the lime used by the natives in that part of the country burnt coral being in general use in the north, and along the coasts.
"Coal is not hkely to be discosered in any great quantuty, although the unusual cirounstances under which it has lately been found in Northern India, render any dromm on this subject hazardous
"Iron ore ts frequent, and has been worked from tume mmemonal by the pativas but it is questionable, whether the riehness of the veins is suffient to justuty any extensive operations
"Tin hats been found in the Saffragam district by Dr Gygax, a Sums moncralogist of some eminence, and it is not unlikely that it may yet be opened in considerable quantity, as it is prucipally in metamorphic rocks like thoae of Ceylon that mineral
verns are found to exist, and generally in monotamons distncts or theif immedate veinity

Corper ose has also been discovered in the souith and in the mimedrate vieinty of Water carnage But without more satisfactor, exmmation and endence engagements for workrag it caouot safely be entered into

- Quacksiver has latels been procured at Cottah, in the immedrate nesghbourhood of Colombo, but only in smail quantites it had been discovered to the same spot in 1799
"In the Galic district keolen, or decomposed feldspar, of a fine white qualtity and even texture, has been recenly found in great abundance It is well adapted for the manufacture of the finer kinds of pottery and paving thes, but the art of pottery and brich-maling is here in the very rudest state, and much good would result from introducing some smple inprovements in this branch of industry
- Anthracte roal has hatily been turned up in Safiragam

Ptumbace is at present the onl minerul whech is exported ou a lagre acale It is found at the depth of eiclit or ten pards in pretty rich streams in the neughbourthood of Coblura The trade in 11 , durng the last seven jears, sa exhbited by the following retura -

| Y $\mathrm{BARA}^{\text {S }}$ | Qunutity | Fater | Daty |
| :---: | :---: | :---: | :---: |
| 1840 |  | ${ }_{128} 10$ d | ${ }_{3}^{5} A_{1}{ }_{4}$ |
| 10.21 | 9 m 2 y | 24* 94 | ${ }^{514} 13$ |
| 18-72 | 72530 | 1314 | 50 260 |
|  | $3 \mathrm{c76} 325$ | 02a 174 | 1380 |
| $1+1$ | $9.14 \times 24$ | 12941210 | 30* |
| tions | 172450 | 201197 | 6160 |
| \% $\mathrm{m} / \mathrm{E}$ | 2403437 | 3020 88 | 2518 |

Value of Importa and Exports

" These inferences and obserntioas, bowever apply almost exclusively to the orerations of Ebropeane and the rusulta and success of foregn investomets and the speculations of olhers, than the nathes of Ceglon It is a remarhable circumstance, but one easily accounted for, that all the activity and energy now so busily manilested throughul every dastract of the alanJ, and apphed to every encourampg department of commercial enterpras, is contried to stragers and inmigrants alone and that the Cage texe themsclves take no apparent interest, thd show no evidence of beiog partictputors in the general prosperth

- Though seldum moant of the first necessaries of life, and athough the great mass of the popultion is sery much theva ed above that which constrtutes poverty in other countre it is a smgnherict, and somewhat docouraging that there as not a samgle tratae eopmentist on Ceylon though some are propmitors of land to a consuderable extent and em, a cosesponding rank and mfluence in inem fon alues
"Dimer thur tumer fulers, the low country was m the hands of the Dutch, who aserted then momploly over all commerce under ciputal penalties. Tise population of the tu, h auds sud mounmas of the interior, werc in liki manner prohbuled by their ruters from all trade or even intercourse with foretzners moncy was unhnown amongst thitin 11 asm ch a there was nothing on whik to expend or in wheth to novest it. The king was the abulum owner of ill lands, and never permitted their diseration to private parthos, metely perchithing ther temporary cultivation as the reward of public services, $4 \times 2$
and thus property in land beng unatamable and commerce prohibited, the accomalation of money was never thonght of by the natures, and rank and the power of oppression became the sole objects of ambition
"This spirit, though checked in its manifestation, still lives in its results, and to the present day the upper chasses have neither the means nor the nochation to embark in active pursuts, and the lower classes universally refuse to labour, or to enter into the service of any but their immedtate chrefs
"Esen the few headmen tho have recently ventured to undertake plantations of coffee and emnamon, employ aot Cingalese but Malabar labourers
*No Cingalese is the ouner of a vessel larger than a fishung-boat and no Cingalese is a merchant at Colombo, or any seaport in the aslund, the small crift by which the coasting trade, and the intercourse with Indin as carrued on beng exclusively the property of Moormen, Parsees, and Malobar Chetties, from the Coromandel coast A few Dutchmen oavigate squarenugged vessels, but there are very few
"The craft gemerally in use consist of brigs, schooners, and dhonevs, varymg in size from 1 to 150 tons, the latter are badly built, cannot beat against the wind, and, consequently, are chiefly employed only during the north-east monsoon, from November to April, and laid up for the reat of the year Ther brigs and schooners run round the ssland, and vist both the Coromandel and Malabar coasts, chtefy for gratn They sat also, during some part of the south-west monsoon, but are not generally considered very seaworthy They are all manned by Lascars, and, in almost every case, are conmanded by Portuguese or Dutch
"The regrstered tonnage of the Colombo district ss $\mathbf{1 5 , 0 0 0}$ tous, and of the rest of the sland about 20,000 tons This description of property is ev dently on the merease, and as the demand for timber and catule from the eastein side of the sistand mereases and the large tracts of land planted with cocoa-nuts in the northern and eastern districts become productive, there will be a much greater denand for tennage of thas description
"Most of the dhoneys are built at Ceylou, but the schooners and large vessels are nearly all built at Cochan, on the Malabar coasr
"The native Cingalese are equally unconnected whth the internal commerce of the asland all of which is conducted by Moormen, Malabars, Pargecs, and strangers, many of whom only conse over from the coast of India for a season, and return agatn to ther wives and families. All the busmess of the country is carned on with the capral of these men, and that of the Brotsh merchants and planters, and the Cingalese themselves see these operations going on from day to day for the advantage of toreigners without an effort to particpate, enther as employers or labourers, in the general benefits whach are increasing around them '

Foreagn Shepping -" The amount of shipping mwards and outwards, during the year 1846, exceeds that of the former or any prevous year, being,

$$
\begin{array}{ll}
\text { Inwards } & 211946 \text { tons } \\
\text { Outwards } & 211424 \text { tons }
\end{array}
$$

"Freghts formerly ruled higher in Ceylon than in the prestidencies of India But owing to the late advances in the price of cotton, and the demand for bread-stutts su Great Brtana, freghts in Bombay and Calcutta are considerably higher than at Galle or Colombo, and another circumstance which has eonsiderable infuence in keeping dova the rates, is that Ceylon is more resorted to than formerly by seekıng ships, as well as by vessels arriving with coal for the steam vessels, and which, of course, look to obtana a homeward freight in return"

Banks, Interest, and Exchange -""There are two banks, batl formed by a prapnutary almost unconnected wth Ceylon The bank of Ceyion was incorporated by royal charter in 1840, and its operations are confined exeluswely to this colony The Ortental Bank is a branch of more considerable estabhshment, with a board of directors in London and another in Bombay, whete us operations are considerable, as well as at Calcutta, Madrac, Canton, Hong Kong, and Singapore
"The caprol of ether establishments, as applied to this risland, is not considerable, being about 100,0001 to 125,0001 each The circulation of either is proportionally

Mimited, that of the Oriental Bank being about 15,0001 , in 1846, and that of the other
27,4871 .
"The operations of both are principally confined to the receipt of deposits, the sale of bills on Eugland and the presidencies of India, and to loeal disconuts to merchants and traders. The latter mainly comprise purchases made by the Chetties from importers, chiefly of Britsh produce, and the acceptances of the Moormen retailers, whose papor is for smaller amounts, proportionate to their minor transactions.
"As regards deposits and the usual business of bankng, the transactions of the year 1846 show a considerable increase over that of 1845 , the payments made by parties keeping aecounts being in the latter year about one milion and a batt; whilst those of 1846 are considerably above two millions. So far as I can collect opinions, the nature of the business at present carried on by the merchants of Ceylon gencrally, is of a soand and steady description, and partakes lithe of a speculative character; whilst the statements given above afford a fair view of the increasing value and importance of their operations."

Moneys.-"Mercantile accounts are kept in British currency, but the following moneys also circulate in the isiand, viz.:-

3 chatlies $=1$ pice.
4 pice $=1$ fsnam $=1!d$.
12 faname $=1$ rix dotlar $=1$ s. 6 d.

The Compary's rupee is current at $2 s$, and the Spanish and Americab doilar at $48.2 d$.

## Rates op Agengy and Conmiseosos.

per centsOn all sales, purchases, and shipments5
With the following exceptions :-
On all purchases of cinsamon, on putchase-money, and dinty included ..... $2 \frac{1}{2}$
On the returas made with the proceds of goods on which commission has been previously charged, if is coffee or cocoa-nut oil5
Ia evpry other description of produce. ..... $2 \frac{1}{2}$
On diamonds, pearis, precions stones, and jewellery ..... 2 李
On treasure and bullion ..... 1
On all property withdrawn, shipped, or delivered to order : ..... 24
On guaranteeing sales, bilk, bonds, contracts, or other engacements ..... 24
On ship's disbursements. ..... 5
On advertising for freights and passengers on the amount of freight or passage money, whether the some pass through agents Lands or not ..... 3
On effecting or writing orders for insuxance. ..... ${ }^{01}$
On secting losses, partal, or general, and returna of premaum ..... 1 ..... 2 녈
Oa procuring money on respondentia
Oa procuring money on respondentia
On attending the delivery af contract goods, or receiving and delvering private commissions of merchandise. ..... $2 \$$
On total sum of debit or credir side of an account at the option of the agens, excepting itebns on which a commission of 5 per cent is charfeable. ..... 1
On effecting remuttances, or purchasing, or selfing, or ncgotiating bills of exchange ..... 14
On 3etters of credit granted ..... 23
On the management of estates as executors, administrators, or atiorbeya ..... 5
On debts where process at lan or atbitration is required ..... 94
And if recovered by sucth reans ..... 5
On bills of exchange notes, \&c., dishonoured. ..... $1^{3}$
On over-due debts collected for absentees ..... 5
TARITR.-Inwadds,
o. d. Hice, per bushel ..... s. d.
Ate and all outher malt liquors in caska
per gallon ..... $\begin{array}{ll}0 & 2 \frac{1}{2}\end{array}$
Do., in bottles, per doz................................... $0 \quad 6$ Spicits and liquensi, per gallon. Tea, per th. ..... 67Eooks, butlion, pearle, and preciousstones, coal, copperah, garden seedsand phats, cathe, instruments, mat-clininery, and implements for agricul-ture and marnuficture, army clothing,Eke., and timberfree.
Opinas, per lb. ..... 10Gunpowider, per ib03
Paddy, per bushel ..... 30
Whe in bottles, per gallean. ..... 206
do. not in botures.
do. the produce of the British possess- sions ..... 06
Goods, wares, and merchandige not other-wise elarged with duty, being the pro-duce of the United Kingdom or British
possessions, on the market value, percent ..... 50
Do. of forriga states ..... 0

Prohbrtech-Arms and gunpowder (except by special authonty from the governor), ennamon do onl, cassia, do buds, coffee (except for warehousing) rum rum shrub or sugar (except for warehousing) the produce of any foreiga country or British possession moto which foreign sugar can legally be imported

"The interest on money at all times high in Ceylon, has been especially so during the last year, on mortgage of landed property and other undoubted securituea seven and enght per cent could have been obtanned during 1843, 1844, and 1845, but in $18 \pm 6$ sumiar accommodations have cost nine and ten per cont habitually, and eien so bugh as twelve and fourteen In some nstances, so much as eighteen per cent has been given on the securny of houses and ground in Colombo, and is this was pand in advance, the charge may farly be taken as an equivalent to twenty-two per cent per annum"

Gold.-r" The quantity of gold mported during 1846 has been very consterable it would, however, be mpracticable, to ascertann the amount, as lage sums are daily brought into the island by private individuals, who of course never enter such at thu custom house The hugh proce manstaned for the precious metal is very surprising, the average may be quoted at $1 / 2 \mathrm{~s}$ 6d per soveleggn'

Pearl Fushery -"The result of an inquiry led to the appointment, as resideutsupervisor of the pearl banks, of an old naval officer, well mformed in his owa line, but entirely destitute of that local expertence so necessary in such a position This measure, so far as the pearl-fishery was concerned, appears to have been not only useless but unfortunate 'We cannot say with respect to this absurd government monopoly, observes the Colombo Observer, 'that on this score we feel any great regret Indeed, notwithstanding the recent legislation on the subject, we cannot help hazarding the supposition that $1 t$ would be well if no more measures were taken and no more anxiety felt respecting the pcarl-fishery Would it not be far better to throw an estensive ronge of coast open to the untrammeled exertions of industrious fishermen than to resort to stangent encoments to oceure at best a very uncerfan revenue trom a product that adds nothmg to the comfort and happoess of 'the many hos much soever it may be valued by the ide, the ruch, and the luxumous? The recurrence of a pearl fishery would once more briar a stream of hying bengs to line and anmate the coast extending from the wllage of Arpo to that of Silawatore -Assanes would be there to speculte and Europeans nould once more look curiously on, and fancy therr appettes mproved by the vapours of putrefaction-supples of all hinds (not forgettugg coffins') would pour in, and 'the revenue would be fattened with the rich result' But at what cost would this 'rich result be obtanedr it that of the morals and happiosss of mamense numbers, for drunkenness debauchery, and gambling of the worst kinds are the mevitable concomitants of a pearl-fishery '
"Perhaps the protection of the banks coots more than has betn realised these gumeas are not therefore to be valued like common guneas, and we dare sny the prizeholders in the pearl lottery thenk their pearls as valuable as in the days of Cleopntra
"The most productuve pearl-banks, are situated off Condrtely extending tharty mules from $N$ to $S$ and twenty miles from $E$ to $W$ The fishery commences in March, when the calm weather permits the boats to go out and return datly
"Kilecarre ismost probably the Colchimentioned in the Periplus of the Erythrean sea as the site of these fighertes and theyare carred on in the same manner as described by travellers several centuries ago The ancient towns of Mantotte and Putaru probibly denved much of their mportance from their vicint! In 1803, 1250 diseris were employed, of whom 1100 were volunteers from the opposte const. The share of profits gave edch individual $5 s 9 d$ per day tor the tume he uas employed, the price of ordtary libour benge $6 \boldsymbol{d}$ per day But each bank beng available ondy for one period, of about twenty days in every seven years, sometumes the fishery is smaller, and sometimes thore
is none at all ; and in no season does it lask for more than thirty or thirty-five deys, comm mencing with the calm weather about the 5 th of March. The divers in air or seven fathoras of water, remain immersed froa fifty to fifty-five seconds-wery rarely longer. A reward being offered to him who should remain the longest under water, it was gaiged by one who remained eighty-seven meconds. The diver's anch is not fantened round his neck, but is attached to a cord heid by the man in the boat above : and it is pulted up when fulf, at the signal of the diver, who, if he choose, is drawn up with it. So far from the occupntion being uohealthy, it is the belief of the cutives that divers live longer than other labourers: and its short aeason is hailed as a gainfuil holiday by tha divers theosselves, who at other times are engaged in ordinary labour. If the oyster is thiken before neven years old, its pearls are imperfectly developed; vigilance is therefore neesesary to prevent indiscriminate fishing, which would destroy the bande, or at least render them quite unproductive. The pearls are sold by the governament to the bighest bidder.
"About seven yenrs is the maximum age of the pear" ogster; but after six years they are apt to die suddenly in vast quantities. The nearer to seven years that they are dished the richer is the harvest; if thay live beyond that period the pearl loses its rich lustre.
${ }^{44}$ From 1799 to 1820, thers were eleven fisheries which produced 297,103I. 10s. 3d., and from 1820 to 1837 there were nine fisheries, producing 227,131/, 138, 6d. Thus twenty hisheries realised upwayds of half a million of nett revenue.
"The time for inspectung the banks is in the lulls between the monsoons in Oetober and Nowember, and the fishery always takes place at the change in March and April. A fishery used to create the utnost excitement along the whole ecoast of India, ond as many as 4000 or 5000 people have congregated about the barren shores of Aripo, which noeans a siewe, and which appears to derive its name from the sifting and sorting the pearls threugh a succession of ten or twelve brass culienders of the siae of a large saucer. The largest holes are in the one at the top, and the lower the peari fallis the less is te valuen
"The days for fishisg are not only limited but the hours as well as the number of boats and divers. They fish upevery thing they eame acrose, and thers is litile time to discriminate, as their tume is so valuable; it has sometimes been at the average of 64 sterling a minute! The most suitable depth of waters appears to be from sia to seven fathoms, and the diver seldom remains below a long as a minute; although for payment, or as a trial of strength, some of them have remained much longer, and they briag up about fifty oysters at a time.
"Awong the numerous frequenters and officiale at a Gishery, a shark charmer is an indispensable attendant, though accidents from sharks are unknown. The office has been hereditary for several generations. He gets $9 d$. a day from government to-assure tine divers that he has secared the mouths of the sharks and driven them from the banks.
"The total value of the exports of jewellery and precious stanes from Ceyion to Great Britain in the followiog five years has been as follows, but we are act able to state the precise amount of pearls comprised in these returns:

| 1899 ... . $£ 4458$ | 18484. . . 298889 |
| :---: | :---: |
| 1840....... 6177 | 1843......3019 |
| 1841..... . 2071 |  |

"Some valnable gems ate found in Ceylon; among those the ruby and eat-eye are the best; topas, sapphire, and crystal are also obtained. Iron is diffused over the greater part of the island; black oxide of manganese is found ; and plombago (caw bouste of iron) is obtained in consicterable quantity, and exported. Weaving gives employment to many persoms. The articles nande are haudkerchiefs, tabie-cloths, napkins, towels, anil-cloth, and a coarse kind of cloth used for their dress by the natives. There are also many oil-millis in operation, chiefly for pressing the cocoa-not hernels. The island contains extensive forests, ia which, besides the more ordinary deneriptions of timber, the growth of those latitudes, there is a great variety and profusion of beautiful woods, well adapted for the use of the cabinet-maker.
"Among"the snimals of Ceylon, most of those found on the opposite continent are nutive to the islaud. Elephants are numerous, and sometinuea do great injury to the
growing crops Under the kings of Candy these anmals were traned to perform the office of public executioners
"The trade of the Uated Kingdom with Ceyion is not distinguished in the customhouse accounts from that to the contment of India A trade is carried on with Bengal, to which presidency it exports betel-nuts, chank shells, cordase cocol cuts, and varous minor artheles, while it imports from that quarter cotton prece goods sugar, nice, wheat, and gunny bags "

Past and Dful Communzaaton - "Ceyjon is at the present moment, the centre of operations for the malls from Chma, the Strats' settlements, Bengal, and Madras, as well as the French, Spanish, and Dutch possessions at Pondicherry, Java, Manila, and cisewhere Even these commumeations are still but in embryo as regirds future development, and when maddition to them, regular postal intercourse shail have been opened by means of steam with our Australian colonies and probably with Mauritus from all of which lines must converge at Ceylon, the future importance of this island cannot fall to be apparent And concurrently with thas, will arise the grave guestion of the sufficiency accessibtity, and safely of the present station at Point de Galle as compared with the unnvalled harbour and facilities of Trincomalee The superiority of accommodation at the latter for ships of war, the convenence for expediting communicaitons between the Admialiy and the naval force in the eastern seas, and its fine commercial stuation fronting the Bay of Bengal, and presenting a centre whence all the Ines of postal communication must diverge, mark it strongly as the point towards which attentiou must ulturately be directed wha a wew to these objects in preference to the mperfect harbonr of Pomt de Galle For packets on ther way to China, Trincomalee would be an addtion of twenty-four hours'steaming, but for the mauls to Bengal and Madras, there would be a correspondent advance on ther voyage in that direction
"As regards the mercantile interests of the colony there can lie litie doubt that Troncomalec would eventually present advantages to the commerce and trade of the saland, infintely superior to Colombo, where there is no harbour, and ouly an open roadstead with imperfeet holding-ground, which is any that but favowably regarded by shapping, both from its aconventence and masecurty The producing districts of the miterior le nearly mudway between the two places and the few miles of additionlf rond to be traversed from Kandy to Tricomalee will be more than compensated by avoiding the three formadable mouvtan passes between Kandy and Colombo
"The prineppal obstacle would naturally be the reluctance of the merchants to abandon then present boildings ist Colombo and trangfer their establishments to Trincomalee But there can be hute doubt that the onlv consideration which ever maluenced the Dutch to establish the seat of goverument at Colombo in preference to Trincomalee, when they had their choce of both, was that the cintiamon plantations from which they chiefly derived their revenue, he in the vicuity of Colombo
"There is daly communseation (Sundays excepted) between Colombo and all parts of the island and, with one or two exceptions, between all the main stations one with the other This conmumcanon is carred on from Colombo to Kandy in the central province, and from Colombo to Pont de Galle in the southern, each a distance of sevinty two miles, which is traveiled in $10 \frac{1}{3}$ hours by means of masl conches estabhished by private partues, and under contract to government for the conveyance of the mads From Kandy the mails ale conseyed by foot-messengers to Trncomalee and all other places in the eastern province, as soon efter their bemg received as possible From Galle, a private coach, under contract wath goverament, conveys the mails to Matura, awenty erght milas forther din the southern province, whence they are taken by foatmessengers to Tangalie and Hambantote, which latter place is the furthest limit of the southern province where a government afficer is stitioned
"The datance from Colombo to the utmost northern humt of Jaffor is 270 males wad between those two places are the utermediate statons of Nagombo, Chilaw Putlam (the chief town of the north westein province), and Manaar Excepting the govern ment despatches, the conespondence between the western, and norh-sestern, and northera provines, is unaportant, espectally when it is compared whith that whech dally
takes place between Colombo and the Kandyen provinces. The obstructions caused by wild animals, deep streams, and absence of looal European superintendenee in parts of the northern and north-western prowinees are so great, that it is matter of surprise that the communication is so extremely regularly maimained, as it is very seldom that a day's mail is due between the two places. The communication, however, is by no means rapid; it occupies four days.
"The mails between Ceylon and the continent of India by land, are conveyed for "eight months of the year through Jaffina and Point Pedro, whence they are taken in catamarans to Point Calymare on the opposite coast; and for the other four monthas through Manuar and Talamanar, whence they ore passed over in hiced boats to Ramisseram. By these means letters from Colombo may reach Madras in eight to ten days, and Caloutta and Bombay in seventeen to twenty days: the variation depending on the nature of the weather at the two extremities of this island. Letters taken by the steamers from Point de Galie reach Madras in three days and Calcutta in nine; whilst those taken is the Seaforth steam-packet to Bombay generaily arrive in less than six daya,
"The communication between Ceylon and the Straits of Malarca, China, Java, and Manilla, is, of course, now efficiently oarried on monthly by means of the contract steamers from Point de Galle; other opportunities are very rare and uncertain. Letters are frequently received from Australia by way of Calcuta, oveupying about three months. in the transit; but a direct opportunity scarcely presents itaelf of sending letters to Australia: one hardly occurs once in a twelvemonth. From Mauritius letters arrive almost monthly by vessels coming thence to Ceglon in gearch of freight; but ditect opportunities of seading letters thidser are unfrequent.
"Homeward-bound vessels take letters, at irregular periods, from Cegion to the Cape of Good Hope and St. Helena."

Crown Lands.-rt The crown land purchased by individuals from May, 1833, to 1843, without inciuding lots under fifly aeres, amounts to 170,080 acres. The one society issues circulars to obtain a return of the extent of estates, and the extent in bearing, which, as fur as they have received answers, enables them to show that there are in bearing 2917 acres ; in progress, 8125: total extent of coffee estates, 47,368 in 1843. These returns are understood not to be complete. Very many applications have been lately made for land about Negombo for sugar cultivation; whether advisediy or not, remains to be seen. Experience bas shown that coffee planting is a certainty. As to whather the soil in the maritime provinces of Ceylon will grow canes for such a length of tine as will be equally profitable, is a problem which time alone can solve. Even if land gives twe tons of sugar per acre, deduct duty and expenses, and coffee land affording only ten huadred weight (sold evem so low as 3l. 10s.) per acre, will be a more certain speculation.*
"Twelve years ago Ceylon was not known in England, and even in London but in the light of a valuabie military key to India. The ouly part of Ceylon that seemed to draw forth any admiration was Trincomalee, on account solely of its harbour being the finest in the Eastern hemisphere, and being the only place of refuge for weather-driven vessels from the Bay of Bengal and the Coromandel coast, but chiefly, we believe, as a valuable naval station. After this, a new era began to dawn on Ceylon; the resources of the island begen to attract the attention of the wealthy capitalists of England. From that day to this thousands upon thousands of pounde have been expended on the soil of both the maritime and interior provinces of the island; and, although it is natural there should be some failures, still it is surprising in how many a hundred-fold the money laid out has been returned. Coffee is the staple production at present of Ceylon, and not a few have already (1844) made fortunes, and othets are in the fair way. Sugar has been tried, but we are sorry to add that the apirited growers have not hitherto succecded as they bad anticipated. True, one or two have succeeded, but it is only those who have. Want of the proper experience, we firmly think, has been the principal cause of the unsuccessfisl results. We have very littie doubt on our mind as to this island being ultiantely a sugar colony, and that to a greater extent then many people are inciared to believe. Ceylon is yet in its infancy. Hundreds

[^30]upon bundreds of acres of surtable lend, whech have never yet been explored, will be in a few years more all under culivation Ceglon is favoorably sttuated with regard to EngJand, the clamate of two-thirds of the saland, we may safely say, 13 not ill adapted for the European constitution The natives of the country are well disposed tocyards the Europezes
"Ceylon is emphatically the half way house between England and Cbina When the resources of that vast empre become farily open to Brtish enterpuse and capital, it will be hard to say of what real importance thas sland may be to England fis invaluable and will always be so as a coalng station to the stemmers outwards and homewards bound It is approachable in 83 short, if not a shorter tsme from England than Bombay is, and who can foresce what a valuable acquistion Ceylon must then prove to Britain, if it ever happen to be made the centre of all her operations, in her wide and far-spreading Eastern dommone, which is far from being an unlikely case of the Company's charter ss even renewed in 1854, and, consequently the government of the day take the affars of Indan moto their own hands Ceylon, mothat case, then would be the focus from whence would issue 'through steam the right arm of Eagland,' all the home instructions destined for our princely dommons in Incha, our territory in China, our possessions in uss seas, as also those of the Indian Ocean, Australia Van Dremens Land, and New Zealand, with our various sslanda in the South Paeaic --Ceylon Herald

Planang in the North - "The cultivation of tobacea, with wheh the planters began, 18 almost totally abandoned Experiments are being made in regard to exotics, and Maryland is expected to succeed The tobacco indigenous to the country is rather coarse and strong for cegars Cotton and cocoa-nuts will, I thunk succeed The planters have succeeded in raising almost every valunble varsety of cottons Sea-Isfand, Upland Georgra, Bourbon, Pernambuco, Nankeetr cotton, \&e Of ali these the Bourbon is the favourite and the most extensively cultivated It will, I think ultimately be the staple coton, not of Cevion only, but of continental India The cotton estates now look most lusuriant, presenting the appearance of extenstye groves of black currant bushes The trees are afmost constantly putting forth boles they are at present covered with flowers, which will be beaten off by the beavy ranns. The proper gathering seasons are February, March, August, and Seplenber Such 15 the effect of our fine chmate, that every variety of cotion is here perennal The cotion trea may be expected to last five or six years, until the cocoa-nuts placed amongst them come mto bearng, by which trme it as hoped all expenses whll be more than paid * Cocoannuts possess a local vaiue of from $1 s$ to $1 s 6 d$ per annam for the produce of a tree in full bearing Bitucoloa 15 the place for coeon-nuts Fine soil and fresh water withn three feet of the surface, The soil here is a perfect paradox Generally apeaking, it is most unpromomg and sterie in appearance, but, whith a hitle manure, and plenty of irsigation, wonders of vegetation are produced from it Dr Divy has said, that the richest soil tahen from the mountan forests of the interior contains no more than $2 \frac{1}{2}$ per ceut of vegreable matter Here we have no forest, only low jungle, and I do not suppose our richest sonl contams one-balf per oent of vegetable matter The most general is calcarecus sand in some places clayey in others, as at Pont Pedro highly ferrugnous, piesenting the most extraordinary contrast to the snow-white coral limestone on which it rests There can be littie doubt that the secrets of the fertilty of the soll of the Jaffina Peninsola lies in the presence of muriate of hime,

Slavery - "In 1816, the greater number of propretors of slaves in the inarsture prownces made a voluntary offer to the crown of the chldren who should be born of their siaves after the 121h day of August, 1816 The offer was accepted, and, m 1818, au ordinance was passed, securmg their perfect freedom, and providing for their support. At the same time it was enacted, that all proprietors of slaves in the maritime provinces should bave them registered in the district courts, under forferture of all right or clarm

[^31]to them；and，in the event of omitting to comply with the provisions of the act，they were declared to be absolutely free．All joint property in slaves was also declared to be illegal，and every slave was to he registered by one proprietor．In Jaffuapatam and Trincomatee，where such a tenure chielly prevails，distinct provigions were made for setuling such claims to slaves．It was enacted，that no claim to a slave less than one sixteenth could be recognised！In order to fix to whom they belonged，he or she was to be put up to auction，and the proceeds divided amongst the claimants，while，of cource，the slave went to the higheet bidder．Dy the act of 1837 ，the registration system was extended to the Kandian Provinces．Every birth or change of proprietor－ ship had to be tegistered，or the owner forfeited his clain to he considered sucl，and the slave was declared to be absolutely and ipso facta free．The first registration was to be made before the lst of Juig，1838，and the certiticate of registry had to be renewed trienaially．The judges were directed to take extruondivary precautions that no addition to the register should be allowed after that date，and of course until the lapse of the first three years，it could not be ascertained what the decrease amounted to．We have stated shat at the frit examination，in 1841，instead of there being 1287 on the record， there were only 379 in the whole of the Kundian Provinces；and，as we proved at some length，there is not another in the whole of the island ！The registration system was very much neglected all oves the maritime provinces，particularly in the northern division， where the proprietors had not resigoed their rights，and had negiected altogether to register．In order，however，that no objection might be taken to the autborities acting on the old ordinance of 1818 ，the ordinance No． 7 of 1842 was passed，making regis－ tration imperative；in fact，revenacting the provisions of the old act，with this clause， that if any shave was not registered before the lst of January，1843，absolute freedon was the consequence．Not a single slave was registeted；and，on the morning of the 1st of January，1843，the sun rose on nearly 23,500 freemed，who were nominally slaves the day before．＂

The resources of this colony，if its affairs intall be properly managed，would be of the greatest productive value；hitherto the imports value，for a long period，have exceeded those of exports，and from the absurd and unjust export duty on cinnamon the growers of that spice have been nearly，if not，ruined．The ports of Ceylon should，like Singapore， be made free ports．
Tre Number and Tonnage of Ships entering the Ports of Ceylon in 1828，may giva an idea of the maritime trade which has since incressed．


Importa and Exporta of Ceylon．

|  | Vnlue． | EXPOATE，1820． | Valde． |
| :---: | :---: | :---: | :---: |
|  | 缶 |  | $\begin{gathered} 4 \\ 32,343 \\ 67,563 \\ 3 \times 437 \end{gathered}$ |
|  | 108，289 |  | 133， 418 |
| Toxat Grain atod Clothe．．．．．．．．．．．．．．．．．．．．． Qihat articlas． | $\begin{array}{r} 246,5192 \\ 94,709 \end{array}$ |  |  |
|  | 816.301 |  | 141，084 |
|  | 4为汭 | Ta Crcat Pritain．Fitued in eterlites magiey |  |
|  | 22b，${ }^{\text {a }}$ | fo Brithh Colemict | 168,076 50.655 |
|  | 3－4，223 | Io Euraskes Stater sutio． | 1，356 |
| Toraz Faitas of firporty dixto | 349．4．9t |  | 950．787 |

－We have examined various documents respecting the abolition of slavery in Ceylon，and we are bound to attribute a getat sixare of the metic of that successful measure to Mr．Anatruther， the then secretary of that colony．

Turporte and Slipping of Ceyfon for the following Years．

| YRARS． | Great Bilmin． |  |  | North Ammeten． |  |  | United States． |  |  | Fareign Scates． |  |  | Torac． |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yalno． | No． | Toub． | Tatue． | No． | Totas． | Value． | No． | Tons， | Talue |  | Tane | Value． | No． | Tons． | Man． |
| 1898 | $\underset{29,9 \mathrm{~s}}{\stackrel{a}{8}}$ | ${ }^{23}$ | 675 ${ }^{\text {\％}}$ | 2 | 1138 | A1 E8a | $\Sigma$ | $\cdots$ | ＊ | （2， 2,431 | 134 | 0，031 | ${ }_{298}^{5} 10.38$ |  | D0，0\％ | 14，794 |
| 18\％）． | 39，290 | 13 | $\mathrm{ABS7}^{\text {5 }}$ | － | 088 | 40,528 | ． | ． | ． |  | 356 | － 2,293 | 343， $\mathbf{2} 07$ | 1137 | 60.982 | 13,041 |
| 1630. | 40，797 | 11 | 3911 | $\cdots$ | 858 | 00，157， | ， | $\because$ | $\cdots$ | 34， 3 \％${ }^{\text {a }}$ | 109 | 12962 | 340，3s2 | 1038 | Tr，030 |  |
| 1 R21． | 28，353 | 7 | 2647 |  | 1044 | 48，3．39 |  |  |  |  | 17－ | 12，的7 | S89，wSt， | ${ }^{12 x} 2$ | 63， $\mathrm{E}_{5} 3$ | 11，509 |
| 3839 | 41，787 | 13 | 4508 | ＊＊ | 1125 | 47．91： | 1916 |  | 979 | 泵，742＇ | $2{ }^{2} 1$ | 13，303 | 351．847 | 1111 | ctose | 13，320 |
| $3 \mathrm{B33}$ | 40，819 | 4 | 7083 | ＊＊ | 1162 | 34．534 | s72 | 1 | 779 | 89，273 |  | 6，754 | 320，，${ }^{\text {a }}$ | 1322 ， | 154，348 | 13，200 |
| 1834 | 71，075 | 13 | 4015 |  | 11545 | ${ }^{51,684}$ | 180 | I | 284 | 1，460 | 237 | 12.041 | 372，725 | （ $4000^{\prime}$ | \＄0，967 | 14.489 |
| 1834. | 60， 1907 | 56 | 6959 |  | 1300 | 55，330 | 109 | 5 | 4．54 | 36．688 | lift | 12,374 | 354076 | 1404 | 73，120． | 寿，b12 |
| 1 \％ 36. | 98，257 | 20 | 60.39 | $\cdots$ | Itits | 4s，010 | ．． | ．． | ． | 24，43\％ | fis | 9，543） | $41.10 \%$ | t 3 al | 71， 238 | 13：39 |




 princes，fin allancte with the East lodia Campany aro incioded．

Exports and Shipping of Ceylon．

| YBass． | Ereat Britatur |  |  | Noth Americs． |  |  | Unlfed Statef． |  |  | Fortigus Srater |  |  | Tozat |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Falde． | 20． | tons． | Faine． | No． | Tons． | Falue． | No． | Tons． | Vilue． | No． | Toug． | price． | Ne． | Fous． | yeb． |
| 1898． |  | 9 | 3541 | S | ＊ 8 |  | 4 |  |  | 2 |  |  |  |  |  |  |
| 1819． | 1964548 | 13 | 4368 | $\cdots$ | 10，${ }^{\text {d }}$ | 56，938 | . | ＊ | ＊ | 1，330 | 36 | 2461 | 48e，1 1 ， | $114{ }^{2}$ | （6，扎近 | 13,000 |
| 1890. | 168，576 | 11 | 3769 | ． | 1176 | 63，4！64 | ${ }^{\circ}$ | －＊ | ＊＊ | 1，376 | 17 | 30.4 |  | 1231 | 69,783 | 12， 10.3 |
| 1891. | 40，503 | 7 | 2.429 | ＊＊ | 1640 | \＄3， 44 | 980 | 1 |  | 748 | 231 | $12 \times 56$ | 1814， 148 | 1075 | 57.831 | ［11，139 |
| 198． | 50， 026 | 14 | 4768 | $\cdots$ | 1259 |  | 2839 | 1 | 770 | 539 | 31 | 158 | 150，W0， | 1305 | －3，317＇ | 13．724 |
| 1833 | 42，403 | 19 | 51848 | ． | 1184 | 37， 380 | 1702 | 1 | 274 | 1，264 | 69 | 2745 | 109，478 | 120\％ | 65， $293{ }^{\text {t }}$ | 17， $\mathrm{y}^{9}$ |
| 188．4．．．．．$=$ | 76.045 | 10 | 31033 | ＂ | 1） | 65.357 |  | i |  | 6，354 | 41 | 3403 | 1115，343 | 1250 | 74.43 | 12，－30 |
| 1835．t．．．．． | 79．765 | 18 | 3－62 | ． | 1200 | 62，431 | 400 | 1 | 274 | 15，993 | 5 | Ssisy | 168.441 | ［20－1） | 72，01＊． | （13， 533 |
| 1836 | 2aspmol | 26 | 7885 | ． | 1100. | 56，230 | t18） | 1 | 274 | 0.890 | 73 | 4098 | ＇300．304 | 130 6 | 03.403 | 12，34 |




Imports and Exports from 1839 to 1843，with the Value of leading Exports．

| Y A 8 S． | Impotth， | \＄xperti． | ATrich Alita， | Cinammon． | Costes． | $\begin{aligned} & \text { Nocea-atat } \\ & \text { Onl. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ＊ | $t$ | $\pm$ | $\pm$ | E | 安 |
| 1839＊＊．．．．．．．．．．．．．．．＊＊ | C01，976 | 375，609 | 27，956 | 84,016 | 134， 597 | 2fisy） |
| 1840．．．．．．．．．．．．．．．．．． | 733， 518 | 40n， 947 | $93.04 t$ | 99， 585 | 214．3iz | 32，4k3 |
| 1841. | 745，244 |  | 92，415 | $\pm 1,557$ | 14,143 | 24， 12042 |
|  | 831，31） | 15，143 | 99，492 | 14．4697 | 569，763 | 3－1， 5 ＋3 |
| 1148 |  | $42 y+24$ | 37，022 | 64， 350 | ！ $192 \times 14$ | 43， 414 |

Statyment of Articles Exported in 1845，from the Ishan of Ceylon，producing more than 100I．Duty．

| NAMEOP <br>  EXPORTED． | PROFINCB OP CEILON， |  | PROVINCEOF COLUNBC． |  | PROVINCE OF GALLE． | ALL OTITRR POETS AND HLACES． |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yalat | Amoute of Duty＇． | Falet |  Duty． | Value． $\begin{aligned} & \text { Ambupt } \\ & \text { of Duty．}\end{aligned}$ | Value．oimount |
| Arrack |  | $\begin{array}{lll}481 & \\ 14 & 1\end{array}$ | \＆t． 4 | ¢ 4 － 4 |  | \＆do d E d．$d$ |
| Arrecmanuts， | Sl， 6358 | 76084 | 23.335192 | $3150101 \%$ |  |  |
| Cionntion | 40.82120 | 20.310110 | 40，627 19 a | 20.314140 |  |  |
| Cotisc．．．$=$ | 363， 4.67 il 3 | S．091 16 A |  | 4900 2 7 | 4057181080 |  |
| Cacuineruct． | 0.117 14 | $180160 y$ |  |  |  |  |
| Cory moper．． | 6，tiss 51 | ¢6F 10 cit |  |  |  |  |
| Oil，oncosamplaw ．+ ． | 13,464 | 895110 | 13.2743 | 33200 |  |  |
| Tolbatce mud elgars＋， |  | 420 it 44 | ．． |  |  | 17，189 4108489 1453 |
| Wrood． | 14，20］ 6 O | 35715 |  |  |  | 1，429 1034.110 it 34 |
| Toraz | 005， 6910 ： 3 | 31，981 7 3d | 434.7291189 | 30，14年161 | 24057141031 | 21，613 15 23154\％ 004 |


612 Noťi3 do siyodivi

|  | I M P P O F |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NA配 OR PGRTS | Valus of Itim ports pro divelng mare than loci Duty | $\begin{aligned} & \text { Amenont } \\ & \text { of of } \end{aligned}$ | Fame of for ports jure cing losat than 100l Duty | $\begin{gathered} \text { Amonot } \\ \text { of } \\ \text { the Doty } \end{gathered}$ | Falne of Arti clen rmporied Duty Trese | $\begin{array}{\|c\|} \text { ToTAL Yinive } \\ \text { of alh } \\ \text { loaporia } \end{array}$ | Toral Amouat of Duly |
| WFgTERM PHO－ tince： | s 3 d |  | \＆： 4 | E 4 | $\pm 4$ | \＆ $3 d$ |  |
| Conlombo |  |  | $\begin{array}{llll}34 & 559 \\ 698 & 5 & 0 \\ 698 & 1 & 7\end{array}$ | 21318068 | S79018 414 | 1189,41814 | 1703310 dg |
| Camtura |  |  | 698 1 7 <br> 434 17  <br> 15   | 45 4 2t |  | 10.375008 | 167410 |
| Burberga | 14 kas <br> 15 |  |  | 446154 |  | 8.51808 | 119311118 |
| Negmimo | 13，304 of 17 | 2213 4 5t | 76412 | 46154 |  | 1 3 3 | $\begin{array}{llll}2 & 14 & 2 & 8 \\ 2 & 370 & 0 & 0 \%\end{array}$ |
| Calpentyo | 61 古 06 | 144 154 | 10050 | 11457 |  | 018178 | ${ }_{9}{ }^{\text {a }}$ |
| Sourn期月 Pro VINCE |  |  |  |  |  |  |  |
| Enlte | 67321 7 04 <br> 4001 11 0 <br> 1   |  | 119838515 |  |  | 79 375 3 71 <br> 5 187 6 10 | 10218108 |
| Dodamiocwe | $\begin{array}{llll}4.901 \\ a & 13 & 1 & 9\end{array}$ | 749 <br> 10 <br> 10 | 285 is 10 | ${ }^{2} 46509$ |  | 5187 | 74819 615 |
| Bellegrm |  | 2xa 910 | 194 <br> 480 <br> 180 | $\begin{array}{ll}16 & 5 \\ 4 & 71\end{array}$ |  |  | $\begin{array}{lll}636 & 7 & 10 \\ 399 & 10\end{array}$ |
| Gandurab | 797155 | 38218104 | 371911 | 31089 |  | 635134 | 1361374 |
| Northers Pag VINE |  |  |  |  |  |  |  |
|  | 47380 | 691180 | 7024118 |  | 3 3 | $57.80{ }^{15}$ | 73051012 |
| Maunar | $3015{ }^{3} 8$ | 6002107 | 2， 613 \％ 5 ， | －1013 71 | －4，849 ${ }^{5} 50$ | 311271496 | 131348 |
| Point Pedroe | 16,436150 | 274714104 | 24610 施 | 104113 | W¢ 180 | 12 cos 2 時 | 2918 － 15 |
| Ravtimen Pao－ YIMCR |  |  |  |  |  |  |  |
| Trincaunles Hetiosloa | $\begin{array}{ccc}18,765 & 3 & 18 \\ 032 & 17 & 0\end{array}$ | $\begin{array}{rrrr}2439 & 12 & 9 \\ 134 & 3 & 8\end{array}$ | $\begin{array}{lll}3,982 & 5 & 6 \\ 1200 & 6 & 6\end{array}$ | $\begin{array}{ccc} 2905 & 6 \\ 90 & 14 & 4 \end{array}$ | 3388 |  | $\begin{array}{cccc} 4,787 & 19 & 9 \\ 263 & 17 & 0 . \end{array}$ |
| Torai． | 8180,5060 | 1071901,4 | 87 加 956 | 4680152 |  | 4787631 | 1564 4214 |



Eirpenses of the Curions＇Estabhument－Fixed salanes，7728t 14；Od，unfixed salaries，


BRITISH SETTLEMCNPSIN THE STRATTS OFMALACCA—MOLACCA, PULO PLNANG, PROMIACE WELLESLEY, AND SItGAI ORE

The British possessions in the Straits of Malacen consist of three settle ments, viz, Pulo Penang, or Pinang, or Prnce of Wales lsland, embracnig a dependence of it, the province of Wellesley-Singapore, and Malacca. Penang and Suggapore are islands, but province Wellesley and Malacen are situated on the Malayan peninsula The settlements are separated by a loug country const, extending along the sea, ta the occupation of Malay princes, all of which, with pery trifing exceptions, is covered with a dense mass of forests, indented here and there by small streams and noble rivers Singapore is in latitude 2 deg 14 min north, and Penang in latitude 5 deg 14 min north

Pulo Pen ang (or Betel Nut), or Prince op Wales' Island, is situated in the Straits of Malaeca, near the Malasan Peninsula, from whuch it is separated by an arm of the sea, between Lat 5 deg 15 mm and 5 deg 29 min north, and Long 100 deg 25 mm east From north to south it is about suxteen males long, and cleven broad at the northern extremity, but at the south it is in some places not more than sis miles Its area is estimated at 160 square males Probably two thirds of the sland are mountamous, the remaning consists of valleys and plans The former consists of two ranges, which run north and south, and are of very unequal height and length, the bighest about 2800 feet above the cea The nest range stretches fiom one end to the other of the 1 sland, but has a low dinsion across it, near to its centre, the east or lesser range extends from nearly opposite to the low pat of the west range, fiom whech it extends southward to near the centre of the southern part of the west range The low parts of the island consist of several distanct parts, the greater number and chief of wheh are situated on the east side of the mountans The ondy rof communcation betreen the plans on the east and west is throngh the low parts across the westranye, known as Captan Low s route When first hown to Europeans, Penang appeared manabited and covered with forests

The mountans and the smaller bulls arc composed of fine gray grante, except. ing some height, near the coast formod of laterite, as is also Saddle Island on the south prost angle of Penang A tin mine was worked some years ago, and it is said valuable minerals cust in the mountans

The soil ts generalis a light dark mould mised with gravelly choy, in some parts there is a rich vegetable soll, formel bv the decayed leaves of the forests, with which the sland had for ages bun covered, the coast soul is laght samy, but rather fertule

Clumate - January and February constitute the dry and bot seasons, November and December the ranny, howevel, the sland is seldom long without refreshmgg showers The thermometer on Flag-staff Hill (2248 feet high) never rises beyond 78 deg Fah (seldom to 74 deg ) and falls to 66 deg , on the plain $t$ ranges from 76 deg to 90 deg Penang is considered remarkably healthy

In 1785, Penang was granted to Francis Light. captain of a country ship, by the King of Queda, as a marrage portion with his daughter Laght transferred hus grant to the East India Company, and was by them apponnted first governor of the sland From the appearance of the interior, and the number of tombs discovered there soon after the colony was formed, the tradition of its having been formerly inhabited, is no doubt true, when taken possession of there were onjy a few miserable fishermen hiving along the sea coast When placed under proper authonty, it was resorted to by Britsh, Datel, Portuguese, Americans, Malays, Arabs, Parsees, Clunese, Chahaihs, Burmans, Slamese, Javanese, \&c, \&c

In 1805, the colony having acquired umportance, the Company determined to constutute it a government only subordinate to the Governor general of India The enormous expense meurred by the establshment, led, in 1830, to its being reduced to a residency, under the Bengal government There is a resident (a governor nommally) over the three settlements, and a deputy resident, or resident counsellor, at each piace There is a court of judicature, and a recorden, for the whole, consequently the judge must go on circuit at stated tumes, to each settlement The population of Penang, according to the last census, endng 1833, amounted to 40,312 souls, and on the opposite shore, or Wellestey province, to 45,953

When the Company's Establshment was formed at Penang in 1786, the only inhabitants wele a few miserable fishermen on the sea coast In consequence of the disturbances in the Malayan principalites, and the encouragement given to settler by the East India Company, a native population of various descriptoons arose The population of the settlement has been stated ns follows -


The following official return from the East Inda House, shows the races of Penang -

Czsnsus of the Population of Penang，or Priace of Wales＇Island，Province Wellesley，and adjacent Isles，up to the 31st of December， 1828.

|  |  | $\begin{aligned} & \text { 晋 } \\ & \text { 苞 } \\ & \text { ? } \end{aligned}$ | 号 | 容 | 星 | $\begin{aligned} & \frac{5}{4} \\ & \frac{7}{6} \\ & \frac{5}{5} \end{aligned}$ |  | 星 | 域 | 容 |  | 曷 | 䨞 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Penthp， |  | $\underset{\substack{\mathrm{Na} \\ 26}}{ }$ | ${ }_{\substack{\text { No，} \\ 350 \\ \hline}}$ | No， <br> 8.957 | Na， 3152 | N N ¢ ${ }_{\text {a }}$ | Na． | No． | 17 17 | N6． | $\mathrm{NO}_{4}$ | N0． | $\begin{aligned} & \mathrm{NA}_{1} \\ & \mathrm{xr}, \mathrm{ARO} \end{aligned}$ |
| T town Aper Ripz | 3， 585 | 1 fg | 133. | 1，410 | 13， | 843 | bas | 7 |  | $\ldots$ | 645 | 89 | 8，k72 |
|  | 8．196 | 24 | 188 | 1， $\mathrm{H}_{4} 76$ | 737 | 2010 | 72 | g9 | ＊ | ＂ | 23 | 18 | \＄，318 |
| Glugare | 535 | 6 | 00. | 473 | 361 | 1 | 13 | $\Delta$ | $\ldots$ | ＊ | 4 | ${ }^{8}$ | ， 3,734 |
| Sundel Klump | 2007s | 108 | 1951 | 783 | 53 | 4 | 7 | $\cdots{ }^{*}$ | $\cdots$ | － | － | J | 8，119 |
| Whaters bintrict | 6f7 | 4 | 180 | 830 | 14 | ．． | ．． | ． | ． | ． | ． | $\cdots$ | 1，72t |
|  | 118 | ＊ | 7 | $\cdots$ | 8 | $\cdots$ | ． | －－ | ．－ | $\cdots$ | $\cdots$ | $\cdots$ | 1010 |
| Pullo R＊＊mat，lith．．．．．．．．．．．0 | ＊T | $\cdots$ | ＊ | ＊ | ．． | ． | － | ． | － | ＊＊ | ．． | ， | 97 |
| Thoral． | 13，264 | 807 | 1380 | E，gaty | ＊ort5 | 136） | 689 | 104 | 19 | 13 | 1333 | 114 | 39，568 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Telut Alcr Tawtur．．． | 7，n33 | 4 | 16 | 154 | 40 | 268 | 48 | 4 | ＂ | ＊＊ | $\cdots$ | ＂． | 8,857 |
| dutia Prye．． |  | ＊ | 10 | \＄20 | 48 | 10 | 6 | ． | ． | $\bullet$ | ＂． | $\cdots$ | 9，316 |
| Juty．．．．．．．．．．．．．．．．．．．．．．．．． | 1，548 | ． | 17 | 88 | 07 | － | 4 | ．－ | － | ＊＊ | $4 *$ | ． | 1，697 |
|  | 1， 218 | － | 98 | \＄3945 | 87 | $\square$ | ＊ | $\cdots$ | $\cdots$ | ＊＊ | － | ＊ | 1，548 |
| Thyat | 35，499 | s9， | 120］ | 10．48 | 6770 | 19009 | 1115 | 159 | 19 | 13 | 1339 | 114 | 29，403 |


The civil establishment of the British Straits＇settlement consists of a governor，a resident councillor at Penang，ditto ditto at Singapore，ditto ditto at Malacca；three other councillors are usually on furlough，and an assistant to the resident at Peaang．In the Recorder＇s Court there are the recorder，registrar， sheriff，deputy－sheriff at Penang，ditto at Malacca，coroner at Penang，ditto at Singapore．

Monrys．－Accounts are kept in dollars and cents，the coins chiefly in circu－ lation being Spanish dollars and Dutch doits，or English copper of like value．

Weights and Measures．－The weights generally in use are those of China． The pecul，of 103 eatties，equal to 133 1－3 avoirdupois．Rice from the Archipe－ lago and salt are sold by the cojan of forty peculs；gold dust by the bencul， weighing 852 grains troy，equal to two Sphnish dollars．Grain from India，per bag of two Bengal maunds，or $164 t$ lbs．avoirdupois．Piece goods，\＆c．，by the corge or score．English weights and measures are frequently adopted for European commodities．

The eastern part of Penang，owing to its moisture，is covered with rice fields． The south and west valleys，though partly cultivated for the same puxpose，are chiefly laid out in pepper and spice plantations．Close along the coast there are extensive belts of cocos－nut trees，and scattered over the island in various groups appear groves of the graceful areca palm（or penang），from which the isle takes its Malay name．The hills and low grounds，where not cultivated，are thickly covered with wood．Vegetation is splendidly luxuriant，and for miles and miles the eye rests on one dense mass of mountain forest：Besides Georgetown the
capital), there is only one other town, Jamestown, situated on the sea-shore, four mules to the south of the captal, amodst a grove of palnus The hill called the "Highlands of Scotland" is 1428 feet above the sea, the situation and clmate of which (and of the other stations), are delughtful Numerous small vilages and Molay topes are scattered over the siland (espectally on the south sude), often beautfully and romantically situated near the coast, or andst spice groves in the vales

The harbour of George Town is capacious, with good anchorage and well defended it is formed by a strat about two mules wide, that separates Penang from the opposite coest of Quedah on the Malay penmsula Penang was ceded to the East Inda Company about a century ago, and soon became a place of commercial mportance, which character it mantaned until the establishment of Singapore Valuable plantations of nutmegs, clozes, and pepper, were establushed by Europeans, which, all but the last, still form the chief wealth of the colony It carried on a bnsk and profitable tuade with the neighbouring Malayan states, Sumatra, India, and Chna The shups belonging to the East Indan Company, on their royage from England to Chma, vếl India, made Penang a calling place, where large amounts of spices, gums, tin, and other products of the Strats, were purchased or taken in exchange for cotton cloths, ron, \&e, \&e The junks from China also exchanged thear ladaggs of tea, rhubarb, silks, camphor, \&ce., for beche-de-mer, sea-weed, oprum, and other products of Europe or of the country

Some years afterwards, the country now known as Proonce Welleslay was annexed to Penang, and the nce-fields, whach were soon cultarated, supplied Penang Nutmeg plantations were also laid out by Europeans and Chinese settlers But a far greater enterprise was undertaken, and now farther encouraged by the late reduction in the Brtish sugar duties, which has induced the outlay of large capital in sugar manufacturing establishments Within the last three years, much of the jungle which overspread the whole of that district has been cleared off, and that useless thicket is now succeeded by plantations of thriving sagar canes, for the cultivation of which the ummense plains of this prownce are found well adapted From the drooping condition to which Penang, including Province Wellesley, was reduced after the establishment of Singapore, it has now greatly recovered, with every prospect of a permanent merease of pros perity The population consists, for the greater part, of Malays and Chinese labourers There are many Chuliahs or Khngs, dative dealers from the Madras provnces, about Georgetown Commercial affarts on a large scale, are in the hands of the Europeans

Penang has been a spice island from the pernod nearly of ats first settlement Pepper engrossed the consideration of capitalists for many years, untal the price fell so low, that the returns no more than repard the outlay But prevous to this check, another eource of gain opened, by the introduction to the island of the nutmeg and clove tree
"The cultivation of the true nutmeg and clove tree, began nearly about the same tame at Bencoolen and Penang, and the greater success which attended it at the former settlement than at the latter, was no doubt owing to the fact of Penang having been then a mercantile, ratber than a cultivating community
"In 1818, the bearng nutmer trees on the island wese esnmated to be 6900 Since that period, spices have been more extensively cultivated, there are now upwards of thirty spice plantations at this settlement, including Pronnce Wellesiey
"The gross annual produce from the plantations may be roughly estumated at $130,000 \mathrm{lbs}$, but young trees ale yearly coming into bearing to swell this quantity, should the cultivation meet with no serious miterruption it may perhaps, in time, supply the whole of the Enghsh market with spices
"Since 1831, the cultivation of the clove has rapidly advanced, an additional number of about 50,000 having been planted
"In 1829, the quantity of nutmegs retaned for bome consumption, was 113,273 $\frac{1}{2}$ lbs or nearly 855 picals The cloves entered for home consumption at present in Great Bntain, amount to $60,000 \mathrm{lbs}$ or about 460 piculs a year, of which a part comes from Chyenne
Noyber of Nutmeg Trees and Plants growug on Pruce of Wales Island, the Amount and Gross Value of Produce denved therefrom, and Quantaty of Ground under Cultivation, drawn up in October, 1843


Numbiza of Clove Trees，\＆e，growng in Penang up to October， 1813

| PLANTATMONS | $\begin{aligned} & \text { 若 } \\ & \text { 気 } \\ & \text { 馬 } \end{aligned}$ |  | $\begin{array}{r} \text { 莒 } \\ \text { 㤩晋 } \\ \frac{9}{2} \end{array}$ | 든 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | number 23，973 | （number | vumber | bumber | bumber 400 |
| Totol of 23 mali do Pangulualig of Ayer Rayma | 25，${ }^{3}+2$ |  | 4152 | 20 （in） | 400 |
| do 6 do | 31 | 2ran | 3300 | 2 c | 20 |
| 6 an do，Jultatons | 130 | 3 lin | 100 | ${ }_{6}^{6010}$ | 17 |
| do 10 do de Glignt | 20.0 | 1000 | 1200 | 5010 | 3 |
| do as do do Scoughy Ktara | 85 | 4 | ser | 1 con | $\stackrel{3}{3}$ |
| do 10 do do Balk Pulow | 600 | 1000 |  | 006 | 17 |
| Tatal number of clove treen in Prince of Walea Ialamit | 28 739 | 45040 | 1276 | 23160 | 41,3 |

Table－（contanued）

| P M M T A T I O S |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total of is larce phantatious in Peravg | ${ }_{78}$ | centa | ${ }_{3}^{\text {dra }}$ | ct 80 | $\begin{aligned} & 14 \\ & 419 \end{aligned}$ | $\mathrm{Flt}_{7 \mathrm{~L}}$ |
|  |  |  |  |  |  |  |
| $\begin{array}{llll}\text { do } & 6 \\ \text { do } & 10 & \text { do } \\ \text { do } & \text { do } \\ \text { do }\end{array}$ | \} 9 |  | 360 |  | 50 |  |
| do 9 do do Sombiy Kiuxd |  |  |  |  |  |  |
| dis 10 do do Bulik lulow |  |  |  |  |  |  |
| Total numitay of elory treea in Prince of Walea laland | 名 7 | 50 | 33.804 | 20 | 169 | 71 |

Numaer of Clove Trees，se，growng in Province Wellesicy up to October， 1843

| FLANTSATATNS | 器管耍 | 管 |  | 它知 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Tutet number of ctope troes in Prosines Wollanley do of Prinec of Walee loland brought dewn | atmbe | witimiter <br> 1566 $4+040$ <br> $4+0.11$ | $\left\{\begin{array}{r} 0 u m b e r \\ 7630 \\ 72.770 \end{array}\right.$ | $\begin{gathered} \text { Runhmy } \\ 22: 161 \end{gathered}$ | namber 54 463 |
| Total or I rined of Walez Intacdand Pravmea W lieslep paplio | 20812 | 50.60 | 80.418 | 25141 | 317 |

Tanle－（contenued）

|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total anmber of ctove traes in Propince Welleuley do of ryimee Walsa Lalaind brought down | ph＊ | catd 15 60 | dra 43 309 | ants 40 80 | $\begin{array}{r} \mathrm{pls} \\ 8 \\ 480 \end{array}$ | cald | pls <br> 71 |
| Total of Prines of Waten InIsid and Propitie Weilen－ loy zu plitpi | 89 | 63 | 2454 | 40 | 677 | 20 | 1 |



TRADE OF PENAVG
The value of imports and exports, not meluding treasure, nor that portion exempt from duty, nor that large portion which only saled through the port, but such goods alone wa paid dutues, is stated as follows in the custom-house returns for the following years -


The Trade of Pensug, in 1828-29, was as follows -


Quantray of Strats Produce exported by the Company's and Country Ships from Penang for Chena, as reported at the Office of the Registrar of Cxports and Inports, 1833

| P和ODCB | Quartity | Ps0DUCE | Quasery |
| :---: | :---: | :---: | :---: |
| Hisch pepper White dite Tin | $\begin{gathered} \text { pends, } \\ 2 \neq 16+4 \\ 4006 \\ 4048 \\ \hline \end{gathered}$ | Petclout fatans | $\begin{aligned} & \text { preala } \\ & 3,41 \\ & 3,671 \end{aligned}$ |

Comparaxive Abstract Staterment of the Trade of Pensig with the mendermentioned Plaves for the last Three Years．


Numaxa and Tonage of Square－rigged Vexels which have Inported and Exported into Penang during the following Years：－

| covetersit |  | －MPOAT品 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 4848－44 |  | 184＊＊－65 |  |
| Breat Britain．． |  | mownber． |  | number． <br> B | tons． gis | namber． | trasa． |
| Capt of Good Exope． |  |  | 1，040 |  |  | 1 | 1，7015 |
| Nesp South Waleb．． |  | 6 |  | $\because$ | $\cdots$ | 1 | 181 |
| Toreikn Europe．．． |  | 7 | 2，375 | 7 | －1asie | 8 | 1，003 |
| Americh．．．．．． |  |  |  | 1 | 4316 | a | 1，05： |
| Mauritios．． |  | 8 | 0 | 8 | 1，712 | 7 | 1，00s |
| Caurtion．．．． |  |  |  |  |  | 7 | 1，013 |
| Calcutto，tee．e． |  | 事 | 10，434 | 88 | $17 \mathrm{ng4}$ | 77 | 15704 |
| Madrue and Cor |  | $d$ | 8,309 | 42 | 5，271 | 99 | 58.888 |
| Bunabey at． |  | 嗗 | 3，234 | ds | 4，278 | 5 | 2.074 |
| Cupion．．．．．． |  | 1 | 182 | 8 | 9364 | 4 | 898 |
| Monomelio，＊uc． |  | 30 | 4，740 | 中9 | 8，733 | 14 | 1，343 |
| Ackien． |  | 84 | 4，478 | 㖓 | 3，304 | 20 | 8 s 50］ |
| Arabis． |  | 4 | 1．463 | 7 | 9，355 | 8 | S． 010 |
| Malxcca．． |  | ${ }^{6}$ | \％ 78 | iot | 7县 | 0 | 1815 |
| Bistapura． |  | 14 | 20，8．18 | 100 2 | \％${ }^{2}$ | 1 | 20，901 |
| Chiph．．＊＊＊， |  | 807 | 13，444 | 17 | 8，608 | 19 | 7，0020 |
| 8 Som and Proprah |  | ＊＊ | ． | 3 | 493 | － | $\cdots$ |
| Quedah <br>  | ＊ | $\because$ | ＂\％ | － | －1 | i | ＂60 |
|  |  |  |  |  |  |  |  |
|  |  |  | 74．387 | $3 t 8$ | 2， 6 cra | a＊） | 75，366 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Nobcerr aud Tonagge of Square-rigged Vessebs, which hava Imported and Exported into Penang, \& c -( (oontinued.)


Nomber and Tonnage of Native Vessela, Prahus, and Juaks, whieh have Imported into and Exported from Penang during the following Years.

| COUNTR1Et | I 190 Rts. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1842 |  | 1843046 |  | 184t-48 |  |
| Shaprpera. | Dumbert. 2 | 101) $x_{4}$ <br> [52] | nuturbet. <br> $2 n$ | cona, 2410 | namber, | trond. <br> 4at3 |
| Alatices... | 17 | 984 | 17 | 338 | 12 | 3敉 |
| Moaltuein, | 40 | tral | +1 | 4045 | 45 | 4.143 |
| Acherem... | 294 | 2469 | 230 | 3014 | 9 | 3 Ffas |
| Sixar and Prongat | i3 | 921 | 78 | 71:00 | 159 | 3-13 |
| Delike..... | 181 | 3078 | 140 | 178) | 304 | ysut |
| Qumab |  | 1413 | 130 | 4705 | $2 \times 4$ | 1723 |
| Wher natue parts. | 248 | 674 | 311 | 1093 | 374 | 3175 |
| Toretio | 0 H | 16,030 | 114 | 20, 4 + 3 | 1331 | 21,362 |

Statement-(conciohted.)


Anstract of the Number and Tounage of Native Vesgels which have lopported into
Penang during the fotlowing Years.


Statentet of the Number and Tomage of Native Vessels which have Exported from Penang durng the followng Years


## MALACC 1 AND CHL EqSTERN ARCHIPLLAGO

Piniafs there are few, if any, of the regions of the earth more highly favoured by nature than the pemmsula stretchng south from the Bintash possescion of Aracan In none hase mon done less, and few are so thinly inhabited, or by a less enterprising of less thifty race than the Malays, or even those who occupy that pait of the peninsula included within the kingdom of Sam The Burmese are a far more porerful, strong, and brave race, but, we behere, not more madustious

Malacea is undoubtedly, mits naturd resources, a veiy rich country, abounding in useful woods, minernls, and fertile soils, with many good harbours, and, this Itahan hee in form peninsula, with the numerous, and almost uncultivated aslands, in the strats and of the coasts of Malacen,-and with Sumatra, as a grgantic Scilly of the Indian Sea, and Java, as it were an Oriental Crete, with Burneo and the other great and small and fertile islands of the Eastern Archipelago, have already opened the most ample fields for trade and navigation, wheh must rapidly be developed by the gewus, skill, and mtelhgence of commercalal criterprise, and by the speedy communications which have been extended by steam to those seas and ishands

In the Eastern Archipelago the inhabitants are remarkably vand both m character ind employments They consust of diversities both of agricultural and commercial classes, from the widest tribes, who seek a precarious subsistence $m$ their woods and forests, to the Javanese, who cultivates the fertile sol of that island, from the petty trader, who collects the scattered produce of the interior, to the Chmese capitalist, who receives it from him, and disperses it agan to more distant regions, situated between the continent of Chua on the one hand, and of India on the other, and furnshing to Europe the means of an extersive commerce

By means of the varretv of ins tribes, their intermixture and connexion with each other and the accessible moture of the coasts, washed by the smoothest seas in the world shade larse and nugable sures open commumention with the interior, the samulus of this conmerce is propazated in successwe waves through the ubole, may be, to an extent that could not otherwise lrave been oltamed Thus the savage and intractable Batia collects and furnshes the camphor and benjamin the spontaneous produce of bis woods, the equall, barbarous Dyak and wild Harrafura ansack the bowels of the earth for its
gold and its diamonds, the nababiant of the Soolo, seeks for the pearl beneath the waters that surround hm, and others traverse the shores for the tripang or sea slog or descend anto its rocky caverns for the Chanese lunury of brds' nests Ascending from these, we find the more civilused Sumatran, whose agriculture is yet rude, employed in the raising of pepper, the native of Moluccas in the culture of the nutmeg and the clove, the still ligher Jawan and Stamese, beisdes ther abundant harvests of rice, supplying Europe with thetr coffee and sugar, and all mpellect sand set in monon by the sprit of commerce Not less varted are the people who collect this produce from all th ese different quarters, till it is finally shipped for Europe, India, and Chand, from the petty bartering trader, who brmgs 11 fiom the interior to the ports and mouths of the river, the Malay, who conveys it from port to port the more adventurous Bugguese, who sweeps the remote shores to concentrate ther produoe at the eroparia, to the Chinese merchant, who sends has junks laden with ths accumulated produce, to be dispersed through the empre of China and furnishes Curopeans with the cargoes of there shops Chrough the same doverging chanuels are agam circulated the manufactures of Indra and Europe and thus a constant intercourse and circulation is mantaned through the whole How much thas intercourie ss faelltated by the nature of the countries, broken into innumerable islands, may be readily concenved and the vastness of the field may be inferred, fiom the extent to which its commerce has actuolly been carried under epery disadvantage of monopolising policy, and of insecurity of person and property, by whel the condition of the people has been depressed, and then increase prevented When we consider that they are placed at the very threshold of Chuna, a country overflowing with an enterprising and industrions population, anxious and eager to dettle wherever security and protection are afforded, that at is thas people who bave chefly contributed to mantan and support the energies of the native population, and have diffused the stumulus of their own activity wherever they have setfed and that protectron rgarist despots and prates only is winted to accumulate them in any numbers, to create, it may be sand, a secoud China, the resomees and means of this extraordinary archipelago, will appear without hants
"Bornen and the Eastern Islands may become to Chua what 4 marta is already to the natons of Europe The superabundunt and vervfioveng popelaton of Chua affords an alnose aneahausthle source of colonasatom, whits the mep and fertile sonl of these

- wslands offers the means of mmediate and plentyfat subswtence to amy nombers toho may settle on them Hoto rapully, wider such cuctumstances, thesc colontes may mercuse m population, whete the climate $2 s$ at least as congenal to the Chenese as that of Anerra po Luropeans, may be readsly concevved from the experience whach the latter has afforded The wealtio of them mine, and the extent of their own native population, added to the greater proximity of China, are advantages wheh were not empeyed by Amenca and must contribute to accelerate the progrcss of colonisation' -From a nunder of the Calcutha Journal

The above extract, written some years ago at Cakcutta, apphes with equal force to the present condition of the strats' settlements, and aslands, and of the Eastern Archupelago The futue of those regions must be great The Malayan penmsula is in length about 770 miles, with an average breadth of about 120 mules The Bratish settlement of Malacen extends about forty mules along the shore of the Stiaits, and about thirty miles inland Its aren is about 900 square miles bounded on the north by Salangore, on the south by Jehore at the river Moara, on the east by the Rumbo country The sea coast is roch) The interior is in some parts monntanous It has several picturesque valtss $s$ Mount Ophir, in the rear, rises about 4000 feet above the sea

Although the great majorty of the inhabitants of the penmsula are Malays, it is not the onginal country of that people They are satd to have em
grated, from Palembang in Sumatra, about A. D. 1252, and founded the city of Malacca. The aborigines of the country were oriental negroes, like the African's, with woolly hair, jet black skin, thick lips, and flat nose, and of diminutive stature, were driven inland to the mountains, where some of their posterity are still living.

Milburne says of the city of Malacas, in 1813:-
"It is situated at the head of a small bay, in 2 deg. 12 min . north latitude, and 102 deg .10 min . east longitude, and has a very neat and beautiful appearance from the sea. The city is large: many of the hóuses are of stone and well built; and sevemal of the streets are spacious and.handsome. The fort is on the south side of a small river, over which is a bridge of several arches. The church stands upon a hill, and being always kept white, is conspicuous at a great distance.

* Large shipa anchor with the chureh bearing east 27 deg. north, in ten fathoms, about $1 \frac{1}{2}$ maile from the town. Ships' boats may proceed into the river at about threequatters flood. In going in, heep the fort well open to the starlooard, till the river is open between the fori and the houses; then steer directly in for the river, that being the deepest chancel; the landing-place is on the larboard side, as soon as you enter the river, about two stones' throw from the bridge.
"Malacea was first visited by the Portuguese, under Sequeira, in 1508, and they experienced a friendly reception from the king; lut great jealonsy arose among the commercial prople of the different nations frequenting the place, especially the Arabs, which they so effectually instilled into the prince, as soon to destroy the grood understanding between bink and the Portuguese, whom he did not dare attack by open focce, but used epery species of treachery to destroy. Finding his plots detected, he ordered the massacre of all the Europeans who were in his power. Numbers were slain, but a few were kept as hostages, to prevent the revenge of the admiral. Albuquerque, who was then the Portuguese gaveruor-general, takiag advantage of this quarrel, sailed from Goa in 1511, and appearing before the port of Malacca, demanded the release of his countrymen. This demand was at first refused; but after oome bostilities, the king was so terrified as to send the surviving Portuguese, and offered to make peace with them upon their own terme. Those prescribed by Albuquerque were vary high; he demanded leave to build a fort where he thought fit ; reparation of all damages done to the Portuguese ; and a sum of money equivalent to the expense of the expedition. The king absolutely refused to yield to them; whereupon hostitities recommenced on both sides, which ended in Albuquerque's attacking the city by sen and land with great furyAfter an ohstinate resistance, it was taked by storm, given to the pillage of the troops, and the plunder wag very considerable. The Portuguese immediately erected a strong fort, and put a good garrison into it: in a very short time it became famous all over India and Europe, and from its situation, commanded the trade of the neighbouring countries.
"In 1605 the Dutch attacked and destroyed a fleet of Portugueae vessels, consisting of thirty-four sail, in the roads, and made an attempt upon the place, but were repulsed. In 1640 the Dutch, knowing the importance of the place, and the wast advantages accruing to the Portuguese from the possession of it, fitted out a large fleet from Batavia with a great body of land forcee, and at the same time concluded an alliance with the King of Johore, who invested the place by land, while the Dutch blocked it up by sea. It was taken after a gailant defence of six months against a very superior force.
"The Dutch retained possession of it till the breaking out of the war with Great Britain, to whom it was surrendered on the 17th of August, 1795, since which period the establighment of Pulo Penang, having superseded the necessity of maintaining it, the Compeny came to the resolution in 1805, of withdrawing the gartison and stores from Malacea and its dependencies; and, previous to the abandonment of the place, the fortifications and public works of all descriptions were completely demolisised, so as to render it of the leath possible value to the enemy, in care is shound ever again come into
his possession Many of the inhabitanta, with their famites and effects, repared to Prince of Wales' Island, and established themselves under the Company s protection"

The following sketches, condensed from recent accounts, afford forther in. formation respecting thas settlement, which may become yet a great central point of trade.

The Amencan consul at Singapore reported some time ago,-
"Malacca, formerly a great place of commerce, became extuct when Penang by cession to the List India Company, was made 2 British port At present the trade of Malacca consists of imports of rice from Aracta, and of various articles from Chma, for the consumption of its Chinese and Milay sohabicants The artieles of export are some twenty thousand piculs of tin, of good quality, and the walhingranes whoh bear its name The tin is smelted from stream ore, in and out of the Brish juriediction, prucipally by Chinese, who yearly resort to that port from Chind, 2iâ Sungapore This operation is attended with great risk to the undertakers and their labourers, for not unfrequently they fall victions to the capidty of the Many chrefs, who, too mdolent themselves to undertake any task of conturuous labour, seaze the Eirst opportunty of appropriating to themselves a rich booty Hence the lmited quantity of tin exported from a region so nich in this metal Considerabie quantities of gold dust are alao sent from Malacea, but here agam the enterprising tiventarer is met, not only by treacherous Malays, but niso by tigers'

Alluding to the mineral riches, anoiber practical writer observes recenthy,
"The re diseovery of Malacca by Europeans (for such in reality was the recent movement) appears to have awakened a new spirt of enterprise The Chnese miners, as of already feeling the presence of their great ruals from the west, and foreseeng that their monopoly must fall before their skill and combiration, are eagerly extending ther works Four new manes have been opened within the last three months, and unless English captalists bestr themelves in time they may find all the stanneferozs valleys pre occupied An American gentleman lately visterd the mines in Malacea and in the Malayan states to the north and south, and as his report upon some of the locahues where tua is now worked is very favourable, it eannot be doubted that the information which he has ohtamed will be duly apprectated by his enterprising countrymen, whose habit it is to plunge $m$ medias res $w$ hulst we sit velghur the pros and cons It may give our Cornush readers some udea of the metallie ferthity of Malicus if we state that in one valley there are at this moment thirty-nibe manes in operation Can it be doubted that the granitic hills at the heads of this valley, the waters from wheh have stresved tos whole lewghth with in sand, hold numerous rich seins? In ote locality where the ground was first broken so recently as October last (1845), there are now 1200 Chmese employed, and recent vistors state the ore to be so abundant that the miners hase not yet had occasion to dig six feet below the surface The Chinese capitahists who have farmed the night of working tnines in this locality frome government, have hited a consuderable number of Chacse emigrants, wha lately arrved at Malacca"

Aspret and Products of Maxicca -"Those who may be deterred from coming to Malaeca from the associations connected with tropical jungies, and the difficultues of new seitlements, must at once rid their munds of such mpressions, and pretare to themselves a great tropieal garden, in which plans and valleys are surrounded and mitergected by hilis covered with an assemblage of frut bearing trees, and in front of this and stretching along a medterranean sas, a long dark green zone formed of sumblar tress and a vast abundance of cocon-nuts, beneath wheh thousands of cottages and houses are scattered, and a country blessed with a pore atmosphere, and refresbing and salubrwus breezes
"Six centurtes have passed over Malacea since it was found a jungle by the Findoo Malay emgrants Malayan civhsation duming the succeeding tho centures and a 'aalf flourished and advanced under a strong government, and while the country belind gra-
dually assumed the aspect of antiquity, the coast for many miles was converted into one continuous market place, where a trading population of nearly 200,000 persons were established, and to which vessels resorted from India, Arabia, China, and all parts of the Indian Archipelago. During the next 130 years Portugal, in its palmiest time, inpressed an European character on Malacca; and then, for a still longer period, a more kiarlred nation, the Dutch, prepared it for the reception of English residents. This successive infusion of new ideas and new habits has given to Malacen a very peculiar and very attractive character. At this day all the races who have one after another predominated, as well as many others who, without possessing anthority, have played the most important parts in its history, exist not only distinct, but co-mixed. Prejudices of blood and religion have been broken down or subdued. Each tribe, more or less, cut off from the powerful segregating influences that reign in its native land, and sulujected to the fraternising force of cotmmon pursuits and constant intercourse, has found nature stronget than prejudice, and Christinn and heathen, papist and heretic, Islamite and unbeliever-man of every tongue, and race, and colour, from the Ultima Thule to the golden Cbersonese, and further still-nat only live in perfect harmony, bat mingle their blood without any misgivings. It bould have been a sin against nature, here so gracious and so bonnteous, had hamanity proved more stubborn. This harmonious diversity, which marks the people themselves, extends to their architecture and all their habits of life. The great cause of this peculiar character of Malroca is the fertility and beauty of the country, and the remarkable purity aod salubrity of the air. Thase circumstances have wedded the emigrants from different nations to the place, so that, jastead of hastily gatheriag what weath they could, and retarning to their native countries, they bave found themselves unable to brenk their attachment to Malacea, and it bas become their adopted home.
"The very liberality of neture has, to our utilitarian notions, had its drawbacks. Men who find that their own country possesses almost every thing which they can desire, and merely to live in which is pleasure, have no adequate motive for exertion. Natare bas been so kind that her children are necessarily indoleat, and more prone to enjoyment than labour. Hence it happens that while, on the one hand, the comforts and luxuries of civilised existence may be found in all their fuiness and at a cheap cost at Malacea, on the other band, civlisation has left a wide economical field almost untouched. On the sea shore you have a mixture of the oldest European and the oldest Astatic civilisations, with every thing that can please the eye and satisfy the desires of maa. Go a few miles into the interior, and you have backwoods rich in virsin soil, and hollows secreting valuable metels; in a word, everyibing that can excite the enpidity of the utifitarian sons of the West.
"The stream tin of the peninsula we believe to be so abundant that ages may elapse before it shall be necessary to have recourse to the expensive process of mining, properly bocalled. The stanniferous region is so great that, although it has long been wrought, not a single valley has been thorougbly worked, and not one valley in a thousand has probably been touched.
"A Malaces Sugar Company has since been formed, and a large and valuable tract lying on the River Lingie luas been applied for on their behalf. This tract is described to possess soil of superior quality, strength, and fertility. It has the great advantage of having excellent water-cariage, being bounded on the north-wesy side for about three miles by the River Lingie, a broad stream that would admit a 300 -ton ship over the bar, and carrying from four to five fathoms of water for a considerable way up its course. Of thus land, about 8000 acres consist of an alluvial plain fitted for the growth of sugar, white the rest is hilly and adapted for pasturage. At no great distance from this there are two or three other allavial plains, varying in size from 3000 to 800 acres, well fitted for sugar cultivation. But in other localities there is ample room for far more extended cultivation of sugar, in all parts of the territory there are valleys large enough for plantations on a small scale, but it is to the large plains on the sea-board that we would, in the first place, direct the attention of companies. By far the most eligible is the large plain on the north of the River Kissang, the southera boundary of Malacca. The
sorl is here rech and deep. It sppears that the upper soil is a black mould of about eight inches, resting on a dark soil of a foot in depth, composed of mingled earth and vegetable matter The whole rests on the ordinary light clays of Malaceca, wheh yreid good crops of rice, dre but thas ag not foumd pure until a depth of three feet has been attanged The great advantages of the locality are the contmuous extent of flat land, easily drained and easily irrgated, where draiming or irrgation may he useful-the curcumstance of its havtig a sea-board of ten or twelve miles, with numerous creeks and streamlets on one srde, and a river frontage of about fifteen mites on another-and, above all, the absence of numerous scattered Malayan farms, whech, in locahtues, oppose a considerable obstacie to the acquisition of connected tracts for large plantationo On the two remaming sides the tract is bounded by rivers, on the borders of which are broad zones, cultivated, and inhabited, and traversed by a highway Another highway runs along the coast a hatle inland, and brings down another belt of cultivation but this as not so far as to deprive the tract of a considerable sea-board, litte anhabited The extent of available land here may be roughly estumated at 150 square miles It is pro bably larger
' In addition to a number of private persons who are preparing to engage extensively in cultivation, another company, besudes the Malacea Sugar Company, bas been projected on a large seale, and arrangements have already been entered upou, so as to allov of actuve operatoos beng commenced mmediately upon the sompany being constituted in England The gentleman who has made the preliminary arrangements is well versed in the practical details of such concerns, havimg been long engaged in sugar cultivation in the West Indnes, Bengal, and the Strats, and in the latier locahty has acquired that knowledge of the batives, them language, and modes of opertion which will enable hom to proceed to work at once and with certamty He has visited Malacca and selected the ground, and proceeds to England by the present mad, there to complete the further arrangements The locality chosen is in the immediate neighbourhood of Malacca, and consists of a fertile tract of alluyial plam, on which 5000 acres have been provisionally arranged for with government it possesses great fieitues in an unhmited command of water, for purposes of transport and manufacture, and abondance of wood for fuel Its vicinity to Malacea will be advantageous for ensumg labour, and beng bordered by an extensive pland, at present cultivated with rice, will permit of the cultivation and manafacture of sugar beng prosecuted to any extent requred Chinese are engaged to commence the planting of cane to a considerable extent
"In tegard to lebour, Malacea offers advantages for procuring it both in abundince and at a cheap rate Chnese labourers to any extent can be obtansed from Singapore, which is within two days sall of Malacea, and where from ten to fifteen thousand emigrants, labourers chiefly, anmually arrive from Chana The services of these men can be procured at a very small rate, and the cost of therr mamtenance will not be great, from the low price which the necessaries of life bear in Malacea
"The contract system is clecidedly the most advantageous, whether the manufacturer employs it upon land of hus own, or merely erects a mill, and contracts wh the cultwators for the cane This plan has been followed, both at Peanag and Sugapore, with the most sugnal success When the labouress are employed merely on monthly wages, the result is found highly unsetisfactory, as they have no great madacement to exertion, and the most. constant and vigilant superintendence ss unable to cope with the disposition to trife and shrk therr labour, wheh charactenises natıves in European emplor, besides the constant risk of offence being given to their prejudices and feeinges, and whith, when given, renders them watchful to thwart and embarrass there employer On the other hand, labourers (Chinese almost prinepally) under the contract system, whwh is now generally in operation for sugar planting in the Strats, bave a darect interest in the pro duce, amee therr gans depend upon the quantity of sugar produced, they worl not under a European, but under their own countryman, who knows how to humour and manage them, and the consequence ss, that they work zealously and to the purpase The follow ing is a description of the system as pursued in Singapore -
"The system of contracts with the Chineae has by expenience been found to be the best plan of proceedıng, and has, accordingly, we beheve, been very extensively adopted

By it, not ouly is a beiter cane produced, but the crop is more abundant The plan is this-ibe ground is cleared, planted, and the whole mavagement of it undertaken by the Chinese, who bring the crop to maturity and cut it down It is carted from the ground by the manutacturer to the mill, and the Chnese are allowed at a certan rate upon the out turn of sugar The sum at present given is about a dollar and a half per pieul, but as the cultation extends, and more Chinese are found willing to engage in it, it will no doubt be considerably reduced, and still leave the Chinese contractor a very bandsome profit'

Colonel Farquhar, for a number of years resident at Malacea, and Lieutenant Newbold, who speak fiom personal observation, are chefly the authorities for the sollowing remarks -
" Nature has been profusely bountuful to the Malay peninsula, in bestowing on it a clemate the most agreeable and salubrious, a soll luxurnanty fertilised by numerous rivers, and the face of the country diversified with hills and valleys, mount ins and plans forming the most beautiful and interestung scenery that it is possible for the imagination to Ggure in contemplaing which, we have only to lament that a more enterprising ind industrous race of mba'nomes than the Malays should not have possessed thes dilightful region tod we cantot but refect with pana and regret on the narrow and soudd pohey of the Peropean poners, who bave had estabhishments here stnce the early part of the fifteenth centur,, by which every attempt at general cultuation and improvenent was discourantd and to such length did thie Dutch carry their restrictions, that prevous to the caplure of Malieca by the Engthbin 1795, no gran of any kmd was permitted to be rased within the himits of the Malacca territory thus rendering the whole population dependent on the Istand of Java for all then supphes Under such a gorernment it is not sarprisiag that ihe country should have continued in a state of promive nature, but no a mucr were these reatrictionstaken of by the Lagisb, and full hberty given to every specus of aerneulture than indusiry began to show itself very tapidly Notwithstandang tint natural indolence of the Mulays, the Malacea district now produces nearly suffictent griou for the consumption of the settement, and with proper encouragement would I have no doubt, in the course of a few years, geld a conssderable quantity for exportation

The padd ${ }^{\text {rows }}$ most luxurantly and velds from two to three hundred fold One erop anmally is all that is at present rased, but from the constant rans which preval here throughout the year, two, or even more, crops arght, with industry, very well be produced

- Phene is great vanety of the nehest snal in the vicinty of Malacca, adipted to the growth it every thag common to tropie il cimates, the vegetation is luxumant here berond what is to be met whth ta any other parts of India, the sugar cane is equal to any produced in Jwa, and tar excceds that of Bengil coffic, cotton, indigo, chocolate, pepper, and spoces hive all been tried here and found to thrive remarkably well but as jei noculuation to any cetent of the e athcles has caken place, priecipaily arising from the uncertuintr of the Enchsh retaming perminent possession of Maiacea, and to the appreherisons tho mative minuitants entertan of bemg obliged to desist fiom any specis of azol uharal pursuits should the stalement revert to the Dutch
- Lhe vont meous produchons of the soll we very bumerous, consisteng of an almost cudless varaty of the nehest and most delncous truits, amonges whici the far-famed $\mathrm{m}_{\mathrm{n}}^{\mathrm{s}}$ ostecn hal to the frest riok, and nttans a highel perfection here than probably anf where eloe indeed Malace stands quite univalled in the quantits, varety, and agree able flivout of its fints The country is cosered with rers fine and ducable timber fur ship mad house buiking, alutiough not entiched wib foresis of te ik
" hac Pirit of Mitace is, beyomd tl comparison, the most convenent of any in the Irults tor ships to touch at foi relreshmenta, and the supplies procmable here are most
《e \& , weto la had it all se sons of the tear Oxen emmot be obtamed, but buffaloes ire ven plentitus, and of the larest and finest kind Sheep are scarce beng all $1 \mathrm{~m}-$ ported foum Boagal but oots and hogs may be procured at moderate pices
"Nothing can be a stronger proof of the extent to which supples are obtanable at Malace, than the elrcumstance of the expedition to Java having rendervoased here tat 1811, dunng which period not less than 30,000 men were furnshed daily with fresh provisions of every kind, as well for Europeans as Natives, in the greatest abuadance
- The elrmate of Malaeca is one of the best in India there you experience none of the extremes of heat and cold, but at all tumes enjoy a umform temperature the most agreeable The thermometer ranges from seventy-two lo enghty-five degrees throughout the year, seldom exceeding the latter, or failing much below the former The mornings and evenugs are partucularly cool and refreshing, and you have seldom to complan of hot, sultry uights There are regulor rany or dry monsoons at Malacea, such os prevaii over the continent of India, the runs, houever, are more constant and heavy in the months of September, October, and part of Notember, than durng the rest of the jear, and from the month of December to the middle of March, whist the north east wad blows the strongest, the weather is considerably drier thau in the othet months Malacca enjoys regular land and sea breezes, dung the lieght of the north-eust monsoon the sea breezes are sery faint, and the land winds at that season frequently blow with considerable force and little variation for some weeks, they are not however of 3 hot and parching nature, like those on the contment of India, owng, no doubt, to ther passing over a considerable tract of country thickly clolhed with woods, so that the earth never becomes heated to any great degree The mornings at this season are purneularly agreeable, the weather being quite serene, and the an sharp and bracong Very httle racation takes place in the barometer at Malncea during the year it is found to fluctuate between 30 deg 3 mm , the hughest, and 29 deg 83 min , the lowest, giving an annual variation of only one-tifth of an mels
"The salubnity of the clmate may be pretty fanly judged of by the number of casualites that have occurred in the garrison for the last seven yeur, whench, from a correct average taken from the medical register of those men who have died from diseases contracted here, does not amount to quite two in the hundred, a smaller proportion than will be found in almost any other part of Inda "-From Col Carquats Statement concerning the Sethement of Malucia
"The soil of Malacea is remartably fertule, and in many places capable of producing excellent nutmegs and cloves Ruce is grown in abundance, the ground irequently yielding more than two liundred fold 1 be supply of water, both from springs and rivulete, is easy mad plentiful The chef rwers are the Lingie the Malacea rier, the Cassang, the Sungle Baru, and the Duyong The first is navigable for small brigs ten or twelve miles from the mouth They take their rise among the lulls in the interior, and empty themselses into the Strat of Malacca. The mouths of these riers are more or less obstructed by bars and sandbanks, therr sides are generally low, in many places swampy, and covered with forest
"The last census (July, 1836) gives the total population of Malacea and its territory, meludsng Nubuing, at 37,706 souls, of whom the greater proportion are Malays In 1818 it amounted only to 25,000 , giving an increase in eighteen years, of 12,706
"Agriculture is on the norease, and pimeval forests are fast disappearing under the Axe of the clearer The notorious salubrity of Malacca, the richness of the soul, and the facility of water-earrige, offer great attractions to colonists The spots I would recommend are the banks and mouths of the largest rivers Quaila Lingw, or the mouths of the Lingle river, is a locality extremely weil adapted to the wants of a young colony Its advantages are, a vavigable raver, leadmg up to the tin mmes of Sungie-ujong, filled with fine fish, a safe and easy communtcation both by land and ser with the town of Malacea, and a great extent of undulating territory, particularly favourable for the cultivation of race, cocoa nuis, and spices -Newbold \& Bratsh Settlements, is


## SINGAPORE

Finc Island of Singapore is admrably stuated for commercial and maritume enterprise It may be sad to command the Indian Seas A narrow strat, an some parts hithe more than a canal, a quarter of a mule wide, divides it fiom the main land it is about twentr-seven mies from east to west, and its extreme breadth about fifteen miles estimated area alrout 270 square miles, or 172,800 zeres A great number of small and nearls desert ales tre scattered round at a distance of a few miles

I he rise aod prospenty of this settlement are owing chiefly to the enterpnse of Bitish meachants It uas founded an 1818 by Sir Stamford Raffles, a few hundred Malay fishermen were then its onir inhabitants Next to Batayia it has beconte the greatest commercial port in the Eastern Archpelago

The istind of Singapore ss low, marshy, and monotonous in its appearance The erection of substutial publie buildngs and handsome well constructed duelling houses, and of baths, concert-rooms, and other elements of cwhisation, render it both an attractive and agrecable place The leading merchants, brokers, shopkcepers \&e, are British, and there are severni wealthy resident Chncse merchants and shopkeepers in the place, great numbers of Chinese arrive annually in their treding junks, many of whom settle at Singapore The chmath is considered salubrious, aud the mliabitants frequently live to a very advanced age

Aecounts ate hapt in Spantsh dollars divided into cents The uqual credit on sules is as follows - Entope goods, three months, Induan and Chma ditto, two months, Opum, two months The last article is frequently sold for cach Produce is generally bought for cash

The common weight is the picul of $133 \frac{1}{\frac{1}{l}} \mathrm{lbs}$ Avoirdupois, divided into 100 enttes Sult and rice are sold by the coyan of forty preuls Java tobacco by the corge of forty bashets Bengal ncc, wheat, and gram, hy the bag, contanng tno Bangul maunds Indirn piece goods, by the corge of twenty preces Gold and shlier thread, by the catty of tharty six dollars weight Gold dust, by the bunkul, wheh wershs dollars equal to 832 grams troy
 export dutics, nor harbour or shipping dues,-vessels of cvery nation are free of all chaige The morcouse with Cbna, the Castern Pemmsula, and the islands in the Ardupeligo, is conducted by natnes in junks, prahus, and craft of the mo $t$ varsed descriphon-every jear showng an addition to ther number and to the places in wheh they have becn equipped If to these be added the Europcan, Indan, and Amencan vesscls, the whole amount of the shipping annualiy enter mg Sirf jpore is upwaide of 300,000 tons

The Saguzore Choncle was commenced about the year 1823, in a quarto
form, and for several years appeared once a fortnght, and being printed at the Mission Press, contaned for a long time little eise than government notificstrons and a very small share of commercial news

Early in 1827, howevel, the odous censorship baving been withdrawn from the press of Singapore, new vigour was infused uto the journal, and in a year or two afterwards we find the Chronacle coming forth in an enlaiged and im proved form, taking the sub-tite of "Commercial Register," and ussued weehly

On the 8th of October, 1835, a second paper, entitled the Free Press, was estabhshed, and by the united, and somatimes conflicting cfforts of these two journals, the local occurrences and interest of Singapore are fally and farly represented Both papers now devote much attention to mercantile affars, and publish useful commercial and statistical information

Comparative Statement of the Cenfus of Simgrpore from 1823 to 1840


Trude of Sitgapore.-There were no correct accounts of the trade kept until 1824. The value of merchandise imported and exported on junks, prahus, \&c., amounted in eighteen months, from the lst of May; 1820, to the 31st of October, 1821, to nearly three milfions of Spanish dollans; and the value of the imports and exports, by square-rigged vessels, fpas estimated at two millions.

In Noveraber, 1821, eighteen ships arrived at, and fourteen departed.
1822.-Tonnage employed in the trade of the island, 130,629 tons; value of imports and exports, 8,568,172 Spanish dollars.


The number of clearances to European vessels, at Singapore, from the end of December, 1822, to the beginning of January, 1824, amounted to 20s. Fortyseven cleared out for Hindostan, forty-two for Malacea and Penang, forty-eight for China, nine for Great Britain, four for Manilla, three for Siam, four for Tringanu and Kalantan, five for Borneo, twenty-nine for Java, six for Sumatra, eleven for Bomeo, and one for New South Wales. The tonnage of these vessels amounted to more than 75,000 toms; many vessels put in for the convenience of wooding and watering only, others traded to a small extent; some took in a portion, and a few, the whole of their lading. The port is so convenient for entering and $d e p a r t i n g$, that almost every ship that sails through the Streits of Malacca touches, either for cargoes, supplies, or to obtain information. Out of 424 vessels that passed and repassed the Straits of Malacea during the year 1823, not more than six or seven passed on without touching, and these were chiefly Dutch men-of-war.

A very important branch of trade is that of the Chinese junks from Canton and Fokien. In 1883 these amounted to six in number, averaging about 3000 tons. They import and export full cargoes to and from Singapore.

- The native vessels from Siam in 1823, were forty-three junks, equal to about 11,000 tons. The greater number of these imported full eargoes, and carried away other articles in return. A few Siamese vessela traded previously at the ports of Iava and Peangg, and touch at Singapore to make up their cargoes.

The native trade with Cochin China during the same period, was carried on in twenty-seven junks, of about, 4000 tons. These vessels, with the exception of a few to Malacca and Penang, traded direct with Singapore.

The trade of the India islanders with Singapore was then much the same as now, divided into the following classes. That of the Bugis, of the Borneans, the Sumatrans, and that of the Malayana in the immediate neighbourhood. The
whole of the port-clearances throughout the year 1823, amounted to 1445 , and in this enumeration the same vessels making repeated vovages were frequently included Between this port and every place withon the Strats of Malacca, frequent antercourse was hept up throughout the year, and there was then a class of vessels which often made three voyages a month between Singapore and the Dutch settlement of Rho, about sixty miles distant The most mportant branch of the trade of the Indran Archipelago has been that of the Bugis, who, from thear distance and the nature of the moasoonc, make but one voyage throughout the year In 1823 the Bugis prahus of the different countres they salled from, and traded to, Singapore, were not less than eighty in number, comprising nearly 3000 tons The trade with the state of Borneo Proper has been, even in 1823, another considerable branch of the wland trade It employed about iwenty-five large prahuc, carrying about 1500 tons The whole of the native irade of the Archipelago to Stogapore, taken together, (exclusive of the ephemeral trade of the immediate vicinty and of the Strats of Malacca, was stated, in 1823, at $\mathbf{4 5 0 0}$ tons annually

Sir stawford Raflics, writing to the Duke of Somerset, says -
' The commerce, therefore, which I have endeavoured to secure by the occupziton of Sugapore, is no less mportant to us than it is our legumite right Withonits narrowest limits, thembraces a fair partictpation in the general trade of the Archipelago and Siam and in a more extensive view, is intmately connected wht thist of Chana and Japan We should not forget that it was in these seas the contest for the commerce of the East was carried on and decided-that it was this trade whech contributed to the power and splendour of Portugal, and at a later date raserl Holland from thas, vita cance and obseurits, to powet and rank aroong the nations of Europe"

The rapid advance of Singapore from its establishment in 1818, to the present period, fully justifies the policy of thet great man

The prosperity and gradual increase of trade has taken place too, in despite of many early obstacles the praneppal of wheh nere the unchecked prevalence of piracy in these seas, which senously affected the native trade throughout the secret as well as the open opposition of the Dutch, the prohibition to import fire ams and ammunition, which (as apphcable to purposes of defence as of attack) the natives were obiged to procure phen and how they could, and tho exclusion of American traders, for some years, from a paricipation of the trade of the settlement, by which it was deprived of much of the specie which they have usually brought from the United States, to purchase Oriental products

| ¢t\％NTAIES． | 1525－24 | ， | 1235－20］ | 18xe－27 | 1827－884 | 1828－20 | 2828－${ }^{10} 0$ | 1850－31 | 9 | $1882-18$ | 1838－86 | 1034－30 | 1835－30， | 1636－37 | 1837－4．48 | 1858－39 | 1820－ 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grast Britath ．．Frerchandime | duhtora． <br> $1,109.094$ | anflart． 330，006 | bimath | $\begin{aligned} & d u 14+r t . \\ & 1,0102,807 \end{aligned}$ | dalizra． 1,293 ense | deblars． <br> $3,18,6,680$ | doll 3.45 | 1nHsxn． | d，dilatic | dillast． $\mid 2,592,172$ |  | dallere． 1， $\mathrm{F} 07,7 \mathrm{CO}$ | dalletas | dollars． $1,180,0.53$ |  | dellate． $1,147,386$ | （b）lere． <br> $1,150,304$ <br> 0．455 |
|  | 38，000 | 4，4，050 | －10， | － | 81，594 | in，103 | 238， 1024 | 06， 21.1 | $05,600$ | 17．198） | 101，0081 | 44，652 |  |  |  | $\begin{gathered} 7,960 \\ 14,720 \end{gathered}$ | $\begin{array}{r} 9,459 \\ 152_{1} 809 \end{array}$ |
| Foralga Europe $\left\{\begin{array}{l}\text { W）er } \\ \text { frea }\end{array}\right.$ | $\because$ |  | \＃＊ | 822，901 | 129327 | 194，083 | b， $\mathrm{S}_{6}$ | 7\％aty | ${ }^{29,170}$ |  | 15， $\mathrm{Igx}^{\text {d }}$ | 12＊， 017 |  | 30， 80.80 | 70，488 112，182 | 178，${ }^{\text {B }} 28$ | 184809 563 |
| Aunerican．．．．4．．．．\｛ ，Mit | －• | 1，000 |  |  |  |  |  |  |  |  |  |  | J76，700 | $40$ | 2 | 178，528 | 561 |
| $\underline{1}$ |  |  | 20，044 | 28，456． | 86，5 | 14， 12，$^{\text {d }}$ | 0，650 | 18， | 12，tini | 13. | 7，168 | 1 |  | 41，706 | 92 | 71 | 47 |
|  |  |  | 4,1000 |  |  |  |  |  |  |  | －5，000 | 463， 107 |  | 917\％ | 㪟， 728 | 205 |  |
|  | 903，483 | 291385 | 293．391 | 53 Cas | 450 | 808，075 |  | 451，37， | 54， 3.45 | 2 cos |  |  | 680，000 | 329，125 |  | 74，151 |  |
| Tr | 834，474 | 8，3，14， 4.8 .0 | 186,780 6,600 | 412，919 | 174,931 $\mathbf{9 5 2 , 7 4}$ | 482080 | 284．130 | 6， $41, \frac{2087}{}$ |  | 21，362 | 23， 200 | 44，607 | $1 \mathrm{I}_{1}$ ， Ca | 26， $\mathrm{ch}^{4}$ | 46， 0151 | \＄1．673 | 里， 214 |
|  | 1 Cama | 14，sis |  | Hexse | 跬， 5.58 | 14．994 | 62.4095 | 54，437 | 72，044 | 115，mis | 143， 808 | 172，024 | 117，444 | \％ 8 ， 001 | 88， 518 | 25.450 | 106， $37 \%$ |
| Hie | 6i，336 |  | 105，002 | 1016，390 | 83，091 | 123，919 |  | 16d， 430 明 | 140．4At | 111， $\mathrm{P}_{5}$ | 124，097 | 122，37\％ | 158， $3^{3}$ | JECPAE6 | ${ }^{2} 85987$ | 219 A ${ }^{\text {a }}$ | 233，20 |
|  | 81，593 | 24，300， | $10_{0} 000$ | 88， 654 | 18， 8 29a | 81，2009： | 43， 158 | 28，6 | 96，040． | 58.057 | 30，1 | ${ }^{60,051} 13117$ | 43，541 | 108， 14.5158 |  | 39，8 | 31,918 <br> 12,948 |
|  | $\because$ | ＊＊ | ） |  |  | － |  |  | 90， 8000 | 7.7 | 5，303 | 37，630－ | 41， 607 | 48000 | $19,46^{\circ}$ | 0， | T00， 006 |
| － | ．． | ＊ | $\cdots$ | $\cdots$ | ＂ | 1，008 | 0，250 | 14． |  | 6，976 | 19，035． |  | \％， 8 | 10，aro | 7，436 |  | 6，007 |
|  |  | ＊ | $\cdots$ | － | － | 147，6 | 148， 3 | 100 |  | 97， 240 |  | 48， | －29，46a | 250， 773 | 41，337 | 237， 788 |  |
| Sanifin | ＊＊ |  |  | ＊＊ |  | 18.090 | 1403 | 1 |  |  |  |  |  |  | 2.853 ． | 3，7725 | 4，709 |
| Chitry | 520，815 | 2，062，030 | 74，948 | P | （5xe bil | 880,314 | 098 | 067 | \％ 18. | 74， 1981 | 691.6809 | 1，103，043 | $1,049,861$ 28,704 0,51 | 1，236， 20.881 | 1，121， 48.123 | 1，070， | 13，724 |
|  |  | 4，000． |  | 101，419 | 20， 4.4 | \＄0，9781 | 76，950， | ${ }^{32,8090}$ |  |  |  | 30,830 600,48 | 23,704 <br> 63,74 |  | 68， 68,38 |  | \％ 10,4006 |
|  | 409， 818 | 381,478 $47 \%$ 4 | 145,5169 17850 | 830，467． | ${ }_{690} 689$ |  | 872,548 $53.8: 0$ | 829,685 21,760 | 19， | 16，804 | ${ }_{\text {a }}$ | （0） 245 | D，044 | \＄1，741 | 2 T | 29，073 | 15，113 |
| T | 07，880 |  | 17850 | 4，400． | copad |  |  | 80，46， | ${ }_{41} 134$ | 114， 1788 | 85，706 | 3t，knt | 80，476． | 24．a13 |  | 48． 64 | 47，348 |
|  |  |  |  |  |  | 19.540 | 98，230 | 31，232 | 34，905 | fil．E18． | 41.9 .5 | 615， 519 | 85，283 | 70，573 |  |  | 119．170 |
| 8iam． | 240.051 | 800，489 | 171．970 | 179， 109 | 211，022 | 281，938 | 2xis， 17 | 141，149 | 210.600 | 215，408 | 186 | 109， 141 | 170.791 | 345,012 | 270.87 | 80，${ }^{\text {a }}$ | 736773 |
|  | 100 | 11，541 | ＊1．7め | 13，${ }^{\text {dan }}$ | 1，865 | 97，159 | 297503 | 4.3 Ac 7 | t，500 | 4，320 | 1．280 | 3,8 明 | sout | 11.48 | \＄8， 21 |  | 154，234 |
| Conhin Culatio．．（He | 06．78t | 38，967 | ［1，893 | 194，120） | 9has | （00， 476 | 101，511 | 49，120 | 210．716 | $85_{2} 315$ | 74.041 | 54 | 60.1 |  |  |  | 193，892 |
|  |  |  | 800 | 13， 372 | 5.959 | 787 | 2278 | 038 | 6. |  | 2, |  |  |  | 1415 | 108， 43 |  |
| matro．．．．．．．．$\left\{^{\text {mif }}\right.$ | 8.509 | 139，03 | $2 \mathrm{ST1}$ | ．． | ＊＊ | 201.449 |  | 136，433 | 150 | 197，4．27 | 101， 140 | ${ }_{87}^{108,023}$ | 35,230, 31,706 | 45 | 45，424 | 70.487 | 00，6m |
|  | ＂ | \＄0，00 | 6001 |  | －＊ | 24.079 | 14，534 | 11.848 | 7．744， | 408， 12.585 | 14， 9 ／8． | 815， 8146 | 911，210 | 840， $0^{2}$ | 810.053 | 251，238 | 38， 376 |
| －Erat Cont | ＊＊ | ＊＊ | ．${ }^{\text {c }}$ | ＂ | ＊＊ | ${ }^{281,9817}$ | \％${ }^{18}$ | 104， | 12，i7h | 13．9\％ | 4，225 | 4， 4,180 | 1.350 | 15，420 | 3，775 | 28.498 | 40，204 |
|  | － | $\because$ | $\cdots$ | $\because$ | $\because$ | 34,437 | 26， 230 | \＄3， | 20， 0004 | 24， 1313 | 25.898 | 6，759 | 16，019 | 15，898 | 83， 306 | 21，683 | 11.805 |
| Punisurla．$\{T$ | $\because$ | －． |  |  |  | 25，02 | 218， 1089 | 7，081 | 4，040． | 3，248． | 0,010 | 0.0 | 14，574 | 8， 1371 | 8，704 | 4，149 | 8，371 |
|  | ＊ | ．． |  |  |  | 288， 73 | $276,4 \times 3$ | 2abasis． | $2 \mathrm{tas,268}$ | \＄1，900， | 217，215 | 369，846 | 304，753 | 244.4 | $3 \mathrm{cos,003}$ |  | 130，325 |
| Kituta lundia．if |  | $\pm$ |  |  |  | 7 F 5 | 12，393： | $\mathrm{m}_{3}$ | 4，300 | 8.010 | 6，398 | $8{ }^{8}$ asd | 25.388 | 8. | $17 \%$ |  |  |
| －Bursea ．，．aver | ．－ | $\cdots$ | $\cdots$ | $\cdots$ | $\because$ | 164．477 | 173.073 | 176， 976 | 160．35 | ${ }^{2} 80,294$ | 248，218 | 216．82 | 88.10 | 131 | ${ }^{158}$ |  | 241,210 10.502 |
|  |  | ＊ |  | ＊＊ | ＊ | 30，73 | 34，${ }^{\text {a }}$ | 15 L | 13， | 21，7 | 118， | 31， |  | 13，589 | 114，726 | Iflisf | 150,913 |
|  |  |  | $\cdots$ |  | \％ | 86.123 | ${ }^{7} \mathbf{7}, 1,18$ | 102， | S\％ |  | 110.2 |  |  | 4，406 | 1，7\％6 | 1，00s | 8，024 |
|  | 109 | 316， 31 | 1，2004．6at | 118 | ，540，72 | $1 \mathrm{E0,5} 5$ |  | 181，535 | \％iviss | 84，275 | 6e． 865 | 108）0ut | Fitut | いdit | 93，Nㅗ | 88，${ }^{4}$ | 104，407 |
| oufar Placpe．．． Tr $^{\text {c }}$ | 112．764． | $8^{2} \mathbf{2} 2 \times 1$ | 133，562 | 276.856 | $180 z^{2} 4$ | 28，241 | 28，${ }^{2} 47$ | 58，876 | 15．1981 | 20，906 | 21.4 | 17，291 | 17. | 21 | 12， 3.8 |  | 3019 |
| Mc | 103，5is | \＄13，547 | 165，6f： | 50，mif | 199，604 | 251，wad | $\because$ | 17ti， | 297，${ }_{\text {a }}$ |  | 358,11 <br> 180 <br> 18 | 4／6， | 4729， | $188.81{ }^{3}$ | 100 | 163，241 | \＄19，417 |
| －4， | da，icat | 73.308 |  | ＊＊．619 | 313，3121 | 48， 10 \％ |  | 34，30 | 490,340 |  |  |  | 120，6\％ | 184， 386 | 145,960 | 138， 0 ， 5 | 150，844 |
| Mingean．．．．．．．．．． Mer | 183,317 365,460 | 100.150 | $14.4,4831$ 89,300 | $\begin{gathered} 164,203 \\ 47,08: 1 \end{gathered}$ | $\begin{aligned} & 101,721 \\ & 05,570 \end{aligned}$ | $\begin{gathered} 948,5 y d 4 \\ 26,1-104 \end{gathered}$ | － | $\begin{gathered} \mathbf{1 8 1 , 5 8 2} \\ 10,465 \end{gathered}$ | $\begin{gathered} 170,349 \\ 16,405 \end{gathered}$ | 20， | 18， 8,080 | 11，800 | 40，400 | 78,841 | ${ }^{1}$ | 64，282 | 176，722 |
|  |  |  |  |  | 70，005 | 1．573，170： | 8，069，8． | A，677，0¢0 | ？， | 7，357，150 | 89， 107 | 7，4，1，25 | ， |  | 7．070389 | 7，603，989 | 14，188 |


| COUNT |  | 1823－34 | 1788－25 | 1828－96 | 1820－38 | 1897－9s | 1820－20 | 1620－20 | 1830－31 | 1851－32 | 1432－93 | 1835－44 | 1834－35 | 1885－350 | 1896－37 | 1837－38 | 1858－38 | 1839－40 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | dollary <br> 65020 | $\left\|\begin{array}{\|c\|c\|c\|c\|c\|} \text { dolinx } \end{array}\right\|$ | $\begin{aligned} & \text { dulavi } \\ & 85 \tan , 065 \end{aligned}$ |  |  | $\mid$ dollats | $\left\|\begin{array}{c} \text { dollise } \\ 2630.01 \end{array}\right\|$ | thotiars | dollasz |  | dollars． | dollara | do lata | daljar： <br> + Fin 63！ | $\begin{aligned} & \text { dollary } \\ & 1030 \mathrm{tan} \end{aligned}$ |  | $\begin{aligned} & \text { sollare } \\ & 2.352056 . \end{aligned}$ |
| Greet Bntais | ｜Treanure | $85000$ |  | $\begin{array}{r} 85 F^{8,065} \\ 6,0,000 \end{array}$ |  | 0020110 | － 4000 | （630 18000 | 10r 30 | a， | 10 100 | 2， $2 \times 140$ | 139 ras |  | － 4975 | 723 400 |  <br> 21479 | 23.3104 |
| Fomergr Europe | $\left\{\begin{array}{l}\text { Msrchatudise } \\ \text { Treasurs }\end{array}\right.$ |  |  |  |  | ＋241827 | 41008 | 13， 699 | 753015 | 31，302 | B2 20I | 10714 | B） 2 Ex | 06687 | \＄2， 036 | 5818 | 75017 | 135024 300000 |
| Amarica | Merchabdiat | 7600 |  |  | 47 | 74\％ | 13.989 | 33，78\％ | 391 | 016 |  | 14000 | 32，${ }^{2} 12$ | $33^{3} 102$ | 24028 | 8916. | 20000 | 20000 1.311 |
| Axaprica | 1 Trcapare |  |  |  | 133000 |  | ar 658 |  | 23172 |  |  |  |  | 8 tang | $\mathrm{FaC}_{1}(\mathrm{~mol}$ | 42070 | 250000 | 11500 |
| Mauritine | Trerchundise | 00 | \＄228 |  | 3.013 | 24086 | 108393 | 28634 | $6 \mathrm{bJ7}$ | 3408 3000 | 754 | 590 | 100 | 1 lmog | $12844_{4}$ | 2， 210 |  | 174 78 750 |
| Caleutia | \｛ Merchandiac， | 46324 | 139444 | 765125 | 922，841 | 109650 | 1 ， $10+16$ | 322 364 | 1214958 | 1，0049 52 | 1.00225 | $122.60{ }^{2}$ | 1，011，035 | $1790 \times 4$ | 1401,907 | 160579 | 1，420487 | $\begin{array}{r}78750 \\ \hline 18.849\end{array}$ |
| Calerta | STrave ie | 3 Fke |  | Tos 12. | $\triangle \times \infty$ | 3 500 ${ }^{1}$ | $7^{7} \mathrm{ma}^{3}$ | 6100 | （000） | 3 sho | 4000 | 41834 |  |  | － |  |  | 3 36s |
| Madrea | （Therchapdene | $\begin{aligned} & 125809 \\ & 200 \\ & 2000 \end{aligned}$ | 40，300 | 115340． | $\begin{aligned} & 171600 \\ & 105000 \end{aligned}$ | 19760.5 |  | 272，460 | 48，338 | 14104 | 47400 | $\begin{array}{r} 361.50 \\ 7009 \end{array}$ | 725 579 | 151 074 | 272406 508 | 376283 4117 | 989.937 | 1641474 1189 |
| Bowbly | \｛ Meichapdise ${ }_{\text {P }}$ | 2369 | 9e694 | ， 6,3393 | 197473 | 40 | ${ }^{180}{ }^{1} 1$ | 12987 | 205603 | ${ }^{03} \times 75$ | 2519 | 1374848 | 101834 | 148316 | 433，35： | 80.607 | 40，997 | 200,2045 |
|  | ¢ Merchambat | 7 F C 56 | 64 ¢ 699 | 158.170 |  | $76783{ }^{5}$ |  | 2820 622 | 1，780 145 | 2.238 |  | 715214 | 737743 | B， 4140 | （551 570 | C23076． | 6506ta | 5660 8500 |
|  | \｛Treantre | （0）0 | $\square 600]$ | 90300 | 26 36 | 82，780 | 17874 |  | ＋ 67360 | 16175 | 185.447 | स1 376 | 29.214 | 146998 | 139285 | 81190 | 30.515 | 251.373 |
| Jaza | \％Mretianalise | 1077 | 475160 | 3 cc 412 |  | 02105 | \＄49102 | 100 | 086 \＄19 |  | 315030 | $87312{ }^{2}$ | 0868 8） | 969133 | 792837 | S03 14＊ | （993060 | 179680 |
| Jara | Treasize | 28.100. | 14．3754 | 20） 30 | 150） 18. | 134－43， | 13， 700 | 96850 | 48， 005 | an 00 | ${ }_{63} 73$. | 8 Al 12 lb | 6164 | 68，736 | taid 12d | 143749 | 1307m | 888078 |
| Ebio | $\left\{\begin{array}{l}\text { Merchatedso } \\ \text { Treamirt }\end{array}\right.$ |  |  |  |  |  | \％ 510 | 73651 | 8148 | 01836 | ${ }^{185} 88$ | 118509. | 107 tra | 18 Cat | 1418 \％ 10 | 122140 | 121 4 | 244 443 |
|  | $\left\{\begin{array}{l}\text { Mreamire } \\ \text { Mprchapdase }\end{array}\right.$ | luj 300！ |  | 1094称 |  | 381039 |  |  | $\begin{array}{r}3 \\ 300837 \\ \hline 0.7\end{array}$ | 92\％ 478 | （298，43 | 12， 10.600 | 12980 |  | g16 10 |  | 289059 517 | $\begin{gathered} 18399 \\ 0, y y y \end{gathered}$ |
| 81 | \｛Trencupo | 1347 |  | 100 | 40 |  | 103037 |  |  | 175 55 |  |  | 62980 | 48133 | $43^{3} 3$ | 3710 | 6203 |  |
| Cochia Chine | \｛ Mprchandise | 4043 | 10175 | 117，300 | 1531037 | 51526 | 10s \％f | 92 ade | 31717 | 16102 | 150954 | 45105 | 06，${ }^{\text {d }}$ | 698.0 | $12.8{ }^{2}$ | Cs stas | 70788 | 13884 |
|  | \％Merechanduse |  |  | 1000 | 319 |  |  |  | 2 taro |  | ${ }^{4} \mathbf{4}$（20） 128 | 1）70．8 | 15 5100 |  | 2,386 | 1060 | ） 475 | 14．596＂ |
| Caylon | $\{$ Treasure |  |  |  | 50 O |  | 13402 | 438 |  | ， | 26128 | 15 f | 6517 | 31026 | 8180 | 17949 | 151400 | ＊ 863 |
| Smantra | \｛ Merchandime | 30340 |  | 23238 |  |  | 290170 | 17069 | 1848 | $188,88.1$ | 144179 | 14345 | 181 48 | ${ }^{12040090}$ | 14752 | 215，760 | 170934 | 215150 |
| －Past Goart |  |  |  |  |  |  | ${ }_{209}{ }^{3} 80$ |  |  | ${ }^{3} 86318{ }^{103}$ | $1{ }^{15}$ | 82， 737. | 19048 | 1078 | 7148 | 106130 | 178 Era | 179．830 |
| atatla | \｛ Truampe |  |  |  |  |  | 3 lay | L0， 00 |  |  |  |  | 8 | 10780 |  | 128 24085 408 | 334 190 $3+96$ | 14139 $3+451$ |
| ent Couts | Merchan |  |  |  |  |  | 85 k 43 | 50746 | 31502 | 2）03t | 3600 | $44^{4}$ Les | －tilu | 35 H | 3）uns | $41+21$ | \％ 31 lug | 459 619 |
| Pedinsula． | Treasure |  |  |  |  |  | 8캉 | 1313 | 8＊28） | 2880 | 14146 | 780 | 2 c | 70010 | 188 | 7620 | 9365 | 2087 |
| watilua． |  |  |  |  |  |  | 106847 | 615001 | 164n41 | 3） 318 | 4.3 .6 | 249 Itt | lt 7441 | 101430 | 94040： | 21077 | $134{ }^{4} 2$ | 166062 |
| ${ }^{*}$ Celeber ${ }^{\text {a }}$ other | Trea bifo |  |  |  |  |  | 18 189893 | 3， 3 （100） |  |  |  | 3610 | $3645+$ |  |  | 1798 | 1200 | 46081 |
|  | $\left\{\begin{array}{l}\text { Herchandime } \\ \text { Tresure }\end{array}\right.$ |  |  |  |  |  | 189024 | ${ }_{5} 11504$ | 200817 | 101417 | 215170 | 204345 | 19.176 | $2 \mathrm{cos}{ }^{2} 3$ | 20， 783 | $2{ }^{2} 184$ |  | 320868 |
| Katura miando | Treambe |  |  |  |  |  | 33.44 | d2，438 | 73 4691 | 10 Stht | $44^{4}$ ht | 21． 460 | 43439 | $41 \times 30$ | 10.30 | $6 \times 400$ | 70，170 | 47 ＋ 4 |
| －Bornco |  |  |  |  |  |  | 12f064 | 1703 | 125 \％81， | 14.817 | rask 41.3 | 1538 78.4 | 175653 | 2333044 |  | 13s 0\％s | 138897 | 13\％a ${ }^{16}$ |
|  |  |  |  |  |  |  | \％081 |  | 11858 | 89 | $10^{5} 689$ | 1174.87 | 109 | 13465 | $160 \%$ | 1 A14 ${ }^{\text {dit }}$ | 12：7 70 | 1180008 |
| 19 | （Trabure |  |  |  |  |  | 414 | 17635 |  | 4117 | 1\％ | 1170 | ＋11120 | 1170 | （3） 442 | 58.347 | ${ }^{7} 184$ | 220438 |
|  | \｛ Mcichantuse |  |  |  |  |  |  |  |  |  |  | 2,76 | 180 | 5397 | ＋20 | 1023 | 6，760 | ［5 $\mathrm{s} \cdot \mathrm{S}$ |
|  | Treature |  |  |  |  |  |  |  |  |  |  |  | 17 tag |  |  | 13 Lmog | 13，0010 | 3800 |
| Nelg luiandz \＆ | \｛ Merchandite | $8{ }^{8} 81$ | ： 032547 | 1156,374 | 0.717201 | 1223140 | 107 ${ }^{197}$ | 181086 | 11624 | 113259 | 01018 | 146 60 | O8 182 | 11884 | 145 | $0^{-113}$ | 82 7 wr | 193241 |
| ader Piacea | （Tyect te | 83.513 | 481051 | 3） 3 |  | 411 | ${ }^{8} 205$ | 20800 | 1.266 $9+36$ | ${ }_{3}^{11985}$ |  | 118 159 |  | 10 42 | 1124 | a cho | $2{ }^{2} 5056$ | 17831 |
| Penumg |  | $\begin{gathered} 24 d=502 \\ 15800 \end{gathered}$ | $\begin{array}{ll} 11 & 4 \hat{\theta} \mid \\ \mathrm{EI} \end{array}$ | $\begin{array}{r} 170 \mathrm{~b} 9 \mathrm{an} \\ \mathbf{4} 191 \end{array}$ | ${ }^{2} 5$ uh | $\begin{array}{rl} 29 & 914 \\ 1 & 147 \end{array}$ | $\begin{array}{cc}38 & 6 \\ 1 & 6 \\ 1 & 3\end{array}$ |  | $\begin{gathered} 91918 \\ 31 \\ 3 \end{gathered}$ | 3204 <br> 2000 | 3） $\mathrm{H}^{1} \mathrm{Al}$ （0） 117 | $2 k 7339$ $(733)$ | $\begin{gathered} 36331 \\ 5039 \end{gathered}$ | $\begin{array}{ll} 101 \\ 46 & 0 \end{array}$ |  |  | 50 <br> 61 <br> 6105 <br> 105 | 510401 |
|  | \｛ Mercl andusa｜ | 120516 | 1177008 | 402 mif | （1） 2 mi | 的54 | ［s 433． |  | 133043 | 115，045 | 12 HESS | 139158 ！ | 133118 | 31634 | $1{ }^{13} 10$ | 1728 | 172 184 | $17 \%$ kical |
|  | $\bigcirc$ Tzeanure | 4 Ens | 31． $800^{1}$ | 4） 270 | 347 | 4， 124 | $43^{3} 3$ |  | 40.368 | $20 \quad 5$ | to 3 析 | 4734 | 4100 | 44 414 | 22.2 Ne | 7383 | 64， 3080 | 3575 |
| OTA1 | Hisar | 1 | （1） 41 | 13 6.340 |  |  |  |  |  |  | ［ $] 1$ | 4619746 | $0{ }^{11}$ | － | 4 dar for | A 9，453 | 8 20utin | ， 377634 |

Impoer Towwage．－Statement of the Number and Tounage of Squarenrigged Vessels which have Imported into Singapore，during the following Official Yeard．

|  | 1829－80 |  | （18s0－8t |  | 1891－99 |  | 1932－98 |  | 1885－54 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Vepacis． | Tans． | Vustala． | Terss． | Yestate． | Tous． | Vearels． | Tans． | Yeaxcha． | Tant． |
|  | nambing． | mptrer． | anmber． | number． | namber． | npubiber． | nutaber． | nuriber． | number． | numbor． |
|  | 19 | 7.080 |  | 8，083 | $\cdots$ | 2，169 | 18 | 6，205 | 28 | 7，751 |
| Conducathl Barape | $\theta$ | 1，476 | － | 0 cos | － |  | 3 | 653 | 7 | bofer |
| Ambrirn．．．．．．．．．．．．． | 2 | 040 |  | 84 | $\cdots$ | 860 | 1 | 676 | 2 | E13 |
| Atse of Prames．． | 2 | 901 | ＊＊ | 1，sis7 | ＊＊ | 4 | ＊ | ＊ | 8 | 815 |
| Bourlonthe． | i | $\because$ | ＊ |  | $\cdots$ | 5 | d |  | 8 | 451 |
| New Sorili Walta | 1 | 484 | －＊ | 3，653 | $\cdots$ | 5 6 2 | 9 | 3，000 | 15 | 5885 |
| Cape of Goud Elop | 1 | 291 | ＊＊ |  |  | 175 | 1 | 283 |  |  |
| Coylon．．．．．．．．．．．．．．．．．．．．． | \％${ }^{2}$ | － 2183 | $\cdots$ | 31，2195 | － | 138 20.236 | 38 | 8899 | 51 | 839 88,938 |
| Bombery and Malabar Codst． | 18 | 24,578 6.800 | －＊ | 31,210 4,106 | s | 20，236 | 30 | － 21.685 | 10 | \＄3，938 |
| Cricuter． | 54 | 14，401 | ＊＊ | 19，374 | ＊ | 18， 376 | 38 | 10，317 | 40 | 17，194 |
| Chima， | 45 | 24，148 | － | 29，109 | $\cdots$ | 77，909 | 47 | 10，100 | 67 | 34，7\％ |
| 3ara． | ${ }^{59}$ | 15， 878 | ＊＊ | 13， 201 | － | 16，24 | 81 | 17，093 | 73 | 12824 |
| Mandila | 14 | 4，025 | $\cdots$ | 8.554 | $\cdots$ | 2,709 | 21 | 4，004 | 20 | 11，008 |
| Arabis．． | 1 | 150 | － | 1，023－ | $\cdots$ |  |  |  | 2 | 748 |
| Sumatrs． | 1 | 136 | － | 1，988 | － | 2.443 | 5 | 896 | 16 | 3，174 |
| Parne | 12 | － | ＊＊ |  | － | 1，158 |  | 939 | 18 | 1．769 |
| Siam． | 12 | \＄，539 | － | 8，0939 | － | 1，148 | 4 | ${ }^{698}$ | 5 | 1，691 |
| Bhio． | 1 | 238 | ＊＊ | 310 | － | 1， 005 | 10 | 1.517 | 6 | 735 |
| Cocbla Chine． | － | 000 | － | 575 | － | 1，2025 | 4 | 087 | 5 | 770 76 |
| \＄10utwith．an． | － | ＊－ | － | ＊＊ | － | ＊ | － | ＊＊ | 2 | 76 |
| Rangrivat．．．．．．． | 星 | 6.950 | ＊ |  | $\cdots$ | ${ }_{0} 180$ |  |  |  |  |
| Matarc | 49 | 4，840 | ＊ | 6，473 | － | 0,107 |  | 9，002 | 04 | 3830 |
|  | 48 | 0,919 0.2687 | ＊＊ | 3，158 1,961 | $\because$ | 7，884 | 81 | 3， 3.873 | 48 | 6，417 |
|  | 23 | 6.267 | $\cdots$ | 1，961 | ． | 394 | 8 | 80 | 8 | 1，135 |
|  | 8694 | 117，940 | 400 | 199，676 | 419 | 1194，045 | 620 | 12924\＄ | 475 | 197，293 |

Import Tonnans－Statement of the Number and Tonnage of Squarenigged Vessels which hawe Imported into Singapore－（continued）．

| cotwtitits． | 1834－95 |  |  |  | 1988－37 |  | 789\％－980 |  | 1838－9 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Vemacha． | Tonat． | Veasils． | 7ones． | Yessels． | Towe． | Vemetelac． | Tons． | Vessola． | Tons． |
| Great Erituip | buruber． 10 | amberar | 18 | Lumbur | number | 42s1 | aber． | number． | unimber | number． |
| Contiountyl Eumppe | 3 | 951 | \％ | ${ }^{3} 36$ | 1 | 3,251 | 16. | 4，726 | 8 |  |
| Antrica | 3 | 894 | 0 | 795 | d | 4 |  | 310 | ${ }^{8}$ | 3.40 |
| Late of Frav | 2 | 508 | 1 | 150 | 1 | 849 | 8 | 771 | 6 |  |
| Bourbon． | t | 120 | 1 | 280 | $\therefore$ |  | 1 | 339 | 1 | 90 |
| New bonth Wblas | 4 | 2，729 | 6 | 1，067 | 4 | 1，190 | 8 | 4.717 | 30 | 12，839 |
| Cape ti Good Hope | － | ＊ | － |  | 1 | 185. | 1 | 105 | 1 | 矢的 |
| Ceg $\operatorname{lon} . .$. | $\cdots$ | ， | ＊ | 6 6t | 1 | 600 | 1 | 200 | $\underline{4}$ | 4190 |
| Bomilay and Najabar Co | 45 | 20，770 | 1 | 13.084 | 01 | \％\％wip | 69 | 30，782 | 71 | 41，248 |
| Mradrap and Coa | 13 | 4，079 | 18 | 10,287 | 1 | 10，342 | 10 | 4，351 | 15 | 7，2t0 |
| Calcutta． | 70 | 30，903 | 87 | 84，018 | 6 | 27， 107 | ＊ | 91，5ics | 48. | 15，540 |
| Chimat | 82 | 知，351 | 88 | 40,368 | 111 | 48，971 | ¢0 | 30，508 | 8 |  |
| dove | 60 | 10．018 | 78 | 10，677 | 74 | 13，544 | 73 | 12，987 | 68 | 13，045 |
| Mas | 29 |  | 87 | 6.1779 |  | 1，415 | 18 | 8，025 | 21 | 7.468 |
| Arabia | I | 488 | 1 | ${ }^{294}$ | 8 | 887 | 1 | 389 | 8 | 004 |
| Sumb | 15 |  | 14 | 3.417 | 17 | 2，749 | 14 | 8,204 | 17 | 3，520 |
| Torne | 17 | 3.013 | 13 | 2，484 | 10 | 1，243 | 13 | 2，043 | 16 | ＋，431 |
| Glab | 6 | 1，094 | $\theta$ | 3，030 | 8 | 9，541 | 15 | 8，363 | 24 | 6.301 |
| Bhic．． | 10 | 8.409 | 8 | 804 | 7 | 1，15 | 13 | 771 | 8 | 467 |
| Cochin Cl | 5 | 1，469 | 4 | egr | d | 1，150， | \％ | 1，426 | 4 | 1，4积 |
| Droutateim | 1 | 203 | 3 | 300 | 1 | $150{ }^{\circ}$ | \％ | 4101 | 2 | 45 |
| Roptomb | ${ }^{\text {b }}$ | 3， 0181 | ＊ |  | ＊＊ | 3） | 1 | 100 6.009 |  |  |
| Maiac | 8 | 0.323 | 5 | 8，819 | ${ }^{4}$ | 3，464 | 63 | 8，0998 | $3{ }^{3}$ | 80004 |
| Fenanid | 87 | 7，703 | 17 | 10,157 8,410 | 78 | 12034 | 09 | 14，016 | 00 | 11，895 |
| Oubar Port | 89 | s，410 | 17 | 2.410 | 18 | 1，st5 | 7 | gem | 0 | 1，406 |
| Torak． | 017 | 106，513 | 538 | 1 104，043 | 541 | 170，435 | 520 | 1150,333 | 674 | 178.795 |

Exporr Tonnage，－Statement of the Number and Tonnage of Square－rigged Vessels which have Exported from Singapere during the following Official Years．

| COUNTEIES． | 1820－80 |  | 1830－81 |  | 1831－88 |  | 1838－538 |  | 1838－34 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Versels． | Ton成． | Vess－1s． | Tant． | Vexacia． | Tents． | Vegreks． | T＇048． | Vonatis： | Tans． |
| Creat Britain． | aumber | nutnher． | Otmber． | atmber | pumber． | puraber | naunber | umbisar． | aumber． | ber． |
| Oostincenal Europe．．．．．．．．．．．． | 8 | 5，627 | ＊＊ | 1，102 | ＂ | 4，03 | 3 | 9 ¢81 | 20 |  |
| Amerier．．．．．．．．．．＊．．．．．．．．．．．． | 4 | $\bigcirc 3$ | ＊＊ |  | ＊＊ | － |  |  | 4 | 10 |
| Iele of Franco．．． | ＊ | 598 |  | 387 |  | ＂ | 1 | 98 | 1 | 2000 |
| Bourbda．．．．．an．．．．．．．．．．．．． |  | 4 | $\cdots$ | ＊＊ | $\cdots$ | $\cdots$ | ＊ |  | 1 |  |
| New South Wrien．．．．．．．．．．． | 8 | 96\％ | － | ＊＊ | ．． | － | 8 | 559 | $\overline{\%}$ | 101 |
| Cape of Gcod Hogat．．．．．．．．．． | 4 | － | － | 174 | ． | ＂ | 1 | 201 |  |  |
| Ceylorn．．．．．in．．．．．．．．．．．．． | 3 | 580 |  | 110 | ．－ | ＊ | 1 | 110 | $\pm$ |  |
| Brmbsy nad Mambur Const． | 78 | 15，189 | ＊ | 16， 289 | － | 13.505 | \％ | 29237 | 26 | 14，819 |
|  | 8 | 2，907 | － | 2，4t72 | － | 1，389 | 7 | 2,350 | 14 | 4．val |
| Colcutte． | 35 | 10，379 | － | 14，953 | ．． | 8，09\％ | 3 | 9， 9.748 | ${ }_{108}$ | 9.95 |
| Chinat． | 64 | 4 4，374 | －＊ | \＄2，350 | － | 47，195 | 30 | 42，760 | 108 | 50.043 |
| Java．．． | 39 | 13，900 | － | 11.481 | $\cdots$ | 10．096 | 54 | 10，08S | 74 | 14，360 |
| tantila | 11 | 2， $\mathbf{8}^{88}$ | ＊ | 1，解感 | ＊ | 2，48s | 10 | 1，740 | 11 | 2，375 |
| Arntifa．．． | ， |  | － | 941 | －－ | $\cdots$ | \％ | 300 | 3 | 1．248 |
| Sumativa． | 1 | 860 | ＊＊ | ． | ＊＊ | 3，071 | 18 | 1.495 | 30 | 3，465 |
| Borneb．t | \％ | $\because$ | ＊＊ |  | ＊ | 1，057 | 8 | 371 | 14 | 1．567 |
|  | 12 | 2，940 | －＊ | 2414 | ．－ | 2,099 | ， | 560 | 3 | 2.573 |
| Rhiownem | 0 | 1，209 | ＊＊ | 2，690 | ＊＊ | 2,786 | 31 | 8，706 | 9 | 957 |
| Cochln－Chisa． | 2 | 163 | ＊＊ | 1，540 | $\cdots$ | 800 | 5 | 1，200 | 6 | 1，M4s |
| Boblay | $\therefore$ | $\because$ | 6 | ＊ | $\cdots$ | ＊－ | 9 | 989 | 1 | \＄199 |
|  | 42 | 4，209 | $\cdots$ | 4829 | ＊ | 11．936 | ${ }_{108}$ | 14，426 |  |  |
| Penent | 48 | 5016 | 0 | 8． 390 | － | 4，550 | 18 | － $3,54.1$ | ${ }_{68}$ | 8，107 |
| Other Partis | 0 | 1，704 | ＊＊ | 8，158 | ＊＊ | 522 | 8 | 1，022 | 10 | 1，461 |
|  | 36 | 117，000 | 410 | 1531，435 | 419 | 114，5＊9 | 429 | 119,829 | $44^{4} 1$ | 1395349 |

Export Tonnage－（continued）．

|  | 183－35 |  | 18＊5－36 |  | 1856－37 |  | 1827－38 |  | 1830－30 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yestels． | Tonll | Vempela． | Tans． | Verach | Tong． | Vemals． | Tont． | Venmple． | Tow ${ }^{\text {P }}$ |
|  | numher． | aunmer． | rmber． | umber． | aumber． | －urober | nuntrex． | number． | atmicer | umiser． |
|  | $3{ }^{3}$ | 9，432 | 25 | $7.210^{\circ}$ | 29 | 8，365 | 24 | 6.91 | 34 | 10，394＊ |
| Contipental Europer ．．．．．．．． | 6 | 1，525 | 7 | 1，攻， | 1 | 350 | 4 | 1，017 | 1 | 1.205 |
| Americg．．．．．．．．．．． | 1 | 450 | 7 | 2.147 | 13 | 4，300 | 4 | 1，094 | 2 | 6 |
| Ifly of Framed＋．．．．．．．．．tn＝ | － | 3 | 1 | 506 |  |  | 4 | 1.160 | 8 | 2，39 |
|  | 1 | 320 | $t$ | 214 | ， | ${ }_{312}$ | 1 | － | 1\％ | 63.612 |
| New South Walcn ．．．．．．．．．．．． | 2 | 3197 | 9 | 8184 | 9 | 597 | 1 | 191 |  |  |
| Cape at Cxod Lupe．．e．．＊＊＊＊＊ | 9 | 号号 | 1 | 218 | ＇2 | 78 | ＂． | $\because$ | 17 | 2.9008 |
| Dombey and Mrlatiar Cagic．． | 28 | 16，319 | 3 | 10.704 | 3 l | 19， 538 | 30 | 18．989 | 1 | E07 |
| Mouras mad Coast． | 4 | 9，519 | 10 | 5.771 | 8 | 3，928 | ， | 2，981 | 35 | 20，043 |
| Calcatia． | 5 | 10.108 | 38 | 17．131 | 61 | 24， 401 | 9 | 10，053 | 14 | 3，300 |
| China． | 197 | 61，762 | 134 | 96，043 | 132 | 67，646 | 105 | 53，943 | 14 | 8.477 |
| Java． | 75 | 17，025 | 32 | 13，087 | 74 | 28．833 | 明 | 10，2s2 | 24 | 3， 101 |
| Mantira | 14 | 2，737 | 13 | 2， 384 | 11 | 1，0ast | 15 | 8.481 | 48 | 10，6149 |
| Arable | A | 914 | 5 | 1，374 | 1 | 150 | 1 | 1.150 | 5 | 938 |
| Fumatr | 17 | 3，459 | 12 | 9，793 | 13 | 3.2898 | 15 | 8.430 | 4 | 1488 |
| Hordet | 14 | 8.215 | 17 | 2，083 | $\theta$ | 1．487 | 10 | 1.3080 | 14 | 8，707 |
| Siamu | ${ }_{0}$ | 1，645 | ${ }^{6}$ | 2，infly | 11 | 3 3，554 | 1 | 3， $3^{2}$ 2ec | 3 | 730 |
| Rhio | 16 | 3,219 | 12 | 2，009 | 5 | 3.33 | 19 | 2．817 | \％ | 6，973 |
| Coebla Chip | 1 | 839 | 6 | 1.6884 | 5 | 1,600 | $\pm$ | 740 | ， | 1.87 |
| Moultriein． | 3 | 510 | 1 | $\underline{5} 214$ | 4 | 1，210 | 4 | 315 |  |  |
| Raugron ．： | 8） | 3.913 | ＊ | 5，3＠0 | 83 | 3，5030 | 3 | （100 | 0 | 12，364 |
| Pedarg． | $\cdots$ | 7，4513 | 54 | O5060 | 70 | 10．206 | 111 | 19，304 | 57 | 11.439 |
| Other Forty |  | 1，250 | 17 | 2，695 | 9 | 1，140 | ， | 475 | 6 | 2,315 |
|  | 318 | 155，471 | 035 | 105，417 | 637 | 116t，309 | 314 | 19，565 | 574 | 137，78 |

Statementr of the Number and Tonnage of Nntivo Vessels（Prahue and Junks）which have Imported at Singapore duriog the following Official Years．

| OOUNTHIES | 1849－30 |  | 1080－71 |  | 1931－5 |  | 1938－39 |  | 1838－31 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Vespelin． | Tous． | Yastela． | Thuna | Yoarels． | Tons． | Vequels．： | Tona． | Vesatis＋1 | TBad． |
|  | nasmber． | namber． | Dumber． | nutaber | number． | number | oumber． | pumileer． | number | umbers |
|  | 11 | 9，535 | 24 | 3，432 | 24 | 8， 364 | 7 | 1，247 | 27 | 4，042 |
| Cochio Chias and Camboja．． | 49 | 4.40 | 15 | 1，442 | 86 | 3，015 | 17 | 998 | 49 | 0,010 |
| Japa＋．．．．．．．．．．．．．＊＊＊．．．．．．． | 68 | 3， 684 | 77 | 4，463 | 16 | 9,167 | 49 | 2，347 | 72 | 3.986 |
| Eurnatre | 276 | 3，122 | 202 | \％，951 | 330 | 2，613 | 818 | 8.501 | 814 | 9，744 |
| Xtio．．．．．．．．．．．．．．．． | 376 | 4.109 | y6s | 9，097 | 281 | 3，438 | 254 | 3.159 | 351 | 8，015 |
| Suat cosist lienibuta． | 114 | 2.321 | 159 | 2.729 | 128 | 2.740 | 143 | 8.097 | 72 | 1，019 |
| Weat Goast Peainula | 203 | 1，408 | 218 | 1，157 | 88 | 025 | 35 | 174 | 48 | 36 |
| Siatn． | IJ | 8，9053 | 88 | G， 5 | 34 | 4，983 | 37 | 4，397 | 24 | 8.893 |
| Borneo． | 176 | 34878 | 161 | 8040 | 138 | 9，083！ | 95 | 2，991 |  | 5,400 |
| Colube | 41 | 1，549 | 68 | 1， 0.09 | 84 | 747 |  | 1．812 | 35 | 1．438 |
| Bally． | 36 | T90 | 09 | 1，550 | 40 | 857 | 46 | \＄16t | 的 | 1， 5 6f |
| Nejghbouriag fsletaly | 214 | 1.586 | 810 | 0， 451 | 170 | － 3,5091 | 188 | 1，983 | 920 | 2,075 |
| Malocia． | 95 | 3，206 | 57 | 2，448 | 90， | 2，771 | 78 | 2，476 | 60 | 2.609 |
| Penppg ．．．．．．．．．．．．．．．．．．．．．$=$ | 25 | 1，230 | 18 | 1，578 | 10 | 1，189 | 3 | 475 | 8 | 420 |
| Terat． | 1703 | 37，0\％1 | 1743 | 82，372 | 1748 | 88，887 | 1366 | 29，94 | 1859 | 84，027 |

Statrament of tho Number and Tonnage of Native Veasels，\＆e．－（continued）．

| COHTHEES． | 1894－＊ |  | 3130－36 |  | 183d－B7 |  | 1307－98 |  | 1838－98 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yewetat | Tonn． | Yessals． | Toms． | Vexsels． | Tona， | Vessels | Tens． | Vensele．${ }^{\text {a }}$ | Tons．． |
| China． | oumber． | mamispr． | （tumber | mumbar！ | damber | numbert． | 86 | \％umber | Dtubler | mber． |
| Conehla Chian \＆Curabiol | 87 | 3,467 | 30 | 2，800 | 18 | 1，fies | 49 | 8，112 | 70 | 8，409 |
| jova ．．． | ，43 | 2，123 | 8 | 3，140 | 32 | 3，2085 | 74 | 4，715 | 8 | 3，4 |
| Sumats | 827 | 8.129 | 335 | 8，063 | 360 | 3，685 | sad | 0，296 | 494 | 4，838 |
| Rhis． | 474 | 4.107 | 284 | 3，762 | 321 | 4，588 | 259 | 8，388 | 575 | 4，110 |
|  | 71 | 1，681 | 10 | 1，460 | 30 | 1，805 | 90 | 1，336 | 194 | 2，148 |
| Weft Coath Pemitil | 40 | 880 | 39 | 452 | 169 | 838 | 165 | 708 | $1{ }^{17}$ | 3559 |
| Glam． | 80 | 5802 | 23 | 4，004 | ${ }^{35}$ | 6，392 | 28 | 5.854 | 23 | 0.219 |
| Bora | 129 | 3,427 | 1931 | 3，863 | 184 | 4．239 | 108 | 8，299 | 107 | 8，394 |
| Culetes | 68 | 1，745 | 87 | 2，486 | 83 | 2，509 | 108 | 8，885 | 129 | 8，304． |
|  | 87 | 1，038 | 73 | 1，606 | 75 | 1，806 | 95 | 2，584 | 40 | 1，318 |
| Neikbhnntiog lajands ．．．t．．． | 150 |  | 100 |  | 231 | 1， 1807 | 85 | 2，305 | 840 | 8，506 |
|  | 79 8 | 2，463 | 06 | ${ }_{9} 9.361$ | ${ }_{8}^{89}$ | 2，404 | 250 | 2，35s | 839 | 4，030 |
|  | 8 | 155 | 0 | $4{ }^{4} 7$ | 6 | 365 | 4 | ＋1182 | 7 | 480 |
| Torthar．e．t．t． | 1464 | 37， 51 | 144 | ses，318 | 4，684 | 88.859 | 1．830 | 44，378 | 8000 | 48，514 |

Statimesnt of the Number and Tomnage of Native Veassely（Prahus and Junks）which－ have Exported at Singapore during the following Official Years．

|  | 1829－30 |  | 1830－81 |  | 1431－32 ${ }^{\text {－}}$ |  | 1838－83 |  | 1833－34－ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Vomsels | Topa， | Yoskela． | Tono． | Vensols． | Tons． | Yesseld． | Tons． | Veapeln． | Tons． |
|  | number． | umber． | momber． | number． | cumbar： | Didmbor． | vetaber， | number． | bumber | vetaber． |
|  | 12 50 | 年， 300 | 83 | 3，743 | ${ }_{\text {年 }}^{88}$ | 4．102 | 18 | 2.673 | 9 | 1，447 |
| Cocluth Chimb and Canawian | 50 10 | 0， 0 | 18 | 1，795 | ${ }_{38}$ | 3，906 | 26 | 82397 | 97 | 1，96\％ |
|  | 88 | 2，393 | 840 | 4，373 | 738 | \＄68 | 5 | 467 | 44 | 9，120 |
|  | 894 | 8，341 | 28 | 8,184 | 300 | 4.701 | 470 | 3,432 4,53 | 307 | 3， 3109 |
| Esist Coast Peminuuls． | 99 | 1，645 | 121 | 8，201 | 118 | 1，465 | 111 | 4，015 | 78 | 1，＋15 |
| Went Cont Pomidala ．．．．．．．． | 189 | 1，189 | 109 | 971 | \％ | str | 80 | 2，4\％ | 86 | 1， 250 |
| Siam．．． | 41 | 6， 182 | dut | 4，034 | 20 | 4，${ }_{\text {\％}}$ | 37 | 4，490 | 17 | 9，305 |
| Elarnes．． | 189 |  | 188 | 4.979 | 130 | 3，369 | 7 | 1，704 | 146 | \％${ }^{2} 1$ |
| Cele brs ．．．．．．．．．．．．．． | 81 | 3， 418 | 78 | 1.750 | 88 | 1，402 | 97 | 1.585 | 103 | 2．041 |
| Bally | 36 | 601 | 64 | 1.774 | 41 | 1，6050 | 37 | 1，115 | 23 | 2，043： |
| Nellighbourioy talauda．．．．．． | 238 | 1，705 | 44 | 1，1885 | 149 |  | 287 | 8.015 | 214 | 2，045 |
| Bhathaca ．．．．．．．．．．．．．．．．． | 98 | 2，539 | 18 | 9，401 1,096 | 101 | 2，890 | ${ }_{3} 8$ | 2，181 | ${ }_{6}^{68}$ | 8，ans |
| Totab．．．．．．．．rer．． | 10.0 | 3，080 | 1570 | 35，536 | 1398 | 31，600 | 1195 | 90，17 | 1480 | 14．8．81 |

Stateareit of the Number and Tonnage of V essels，\＆e－（coninaued）

| COUNTRIES | 1834－85 |  | 1433－36 |  | 1336－37 |  | 183－38 |  | $123-38$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yesela | 1 Toba | 15anels | Tont | Veaser ${ }^{\text {a }}$ | Trut | beascla \} | Taga | Fesselar | Tans |
| China | $\begin{array}{\|c} \hline \text { number } \\ 19 \end{array}$ | comber | nutaber 18 | － | number <br> 17 | $\begin{gathered} 01 \text { nibor } \\ 79 \end{gathered}$ | $\begin{gathered} \text { traber } \\ \hline 77 \end{gathered}$ | number | a | aus ber |
| Cochin Chan and Combeya | 30 | ¢， 104 | 16 | 1166 | 14 | \％ 0 | 30 | $1450$ | 4to | $15 \%$ |
| Jert | 29 | 2，435 | 71 | $1+27$ | 21 | 1.45 | 31 | 7 123 | 18 | 2， 211 |
| Samatra | 433 | 3 现 | 43 | 2541 | 33 | 31发 | 4 t | ， 216 | 44 | 4 rr |
| Pthe | 996 | 407 | 83 | 4.75 | $3 \cdot 3$ | 5193 | －1．1 | an 1 | 3a） | 42 |
| East Coast Patiosaila | $\stackrel{3}{6}$ | 1085 | 64 | 1：71 | H | $1)^{15}$ | 1.2 | $410^{\circ}$ | 14 | 240 |
| West coist femmeria | 88 | $3>0$ | 35 | 34 | 712 | 139 | 215 | c， 1 | 13 | 3 |
| S amm | 24 | 4 CH 2 | 31 | 53.7 | 11 | 5190 | 3 | 5 ser | 17 | 7 32 |
| Bornco | 109 | 3,31 | 169 | 18. | $1>5$ | $3+10$ | 93 | $3) 14$ | 94 | 3192 |
| Celebes | 79 | 2，304 | 163 | 3.417 | ＊ 7 | $2{ }^{2}$ | 13. | 7 ¢7 | $1{ }^{10}$ | 3070 |
| 秉0xty | 18 | 340） | ${ }^{63}$ | 1391 | 71 | \％ 50 | 93 | 2.389 | N0 | $1{ }^{1} 129$ |
| Seightouring lumads | 221 | 2 208 | 177 | 1.494 | 323 | $2+60$ | 34 | 2，13 | 311 | 2189 |
| Malacez | 83 | 2385 | 43 | \％ 614 | 130 | $2.10 t$ | 303 | 4.506 | 306 | 33 |
| Twand | 39 | 573 | 0 | 162 | 13 | 326 | 5 | 57 | 12 | 32 |
| Totaz | 1418 | 35，${ }^{\text {ath }}$ | 1390 | 134932 | 20.5 | 13\％，135 | 4694 | 43，301 | 2130 | 14436 |

The following is a Summary of the Shippang Trade，for a Seres of Years NATIVE VESSELS

|  | ENTERED |  | CLEA念5 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tesueste | 40nisete | Fseramels | 1 | tomosere |
| 183） | $1,04$ | $3021$ | 13 |  | 31513 |
| 1831 | 113 | 3134 | 150 | 1 | 2） 40 |
| 1832 | 1 13 | 3 asb | 13103 | ， | 3－136 |
| 1533 | 1564 | $3{ }^{3} 14$ | 14.3 |  | 7n 19 |
| 1834 | 1299 | 34978 | 1450 | ， | 20537 |
| 183） | 114 | 3 kgi | 1118 | 1 | 35150 |
| 1836 | $1+4$ | $36.34 d$ | 119 |  | 313 |
| 1837 | $1 \times 4$ | 3955 | 20， 05 | 1 | 38184 |
| 1835 | 180d | 41.54 | 1094 | I | ＋2， 371 |
| 1439 |  | 45114 | 2136 | ， | 41 +38 |
| 1812 | 9400 | 64 yen | \＄1！ |  | 59.4 |

SQUARE－RIGGED VESSELS

|  |  | BNTERED |  |  | CLEARED |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Featela | tononge |  | reascis <br> 3 |  | tonauga <br> 117000 |
| 1830 |  | $3+4$ | $11 \not 21 \beta$ |  | $3 F 7$ |  | $\begin{aligned} & 117000 \\ & 13193 \end{aligned}$ |
| 1831 |  | 4 n |  |  | ＋10 | 1 | 1318 |
| 1432 |  | 413 | ＋44 43 |  | 419 |  | 1182 |
| 1483 |  | 120 | 12743 |  | 1.48 |  | 11 is |
| 1834 |  | 476 | 23 39\％ |  | 471 |  | 330317 |
| 1435 |  | 517 | 1sf 513 |  | \＄55 |  | 1551 l |
| 1475 | 1 | 539 | 1003 |  | 243 |  | ctalt |
| 1837 |  | ＋1 | 1． 34 |  | 57 |  | 1369 |
| 1839 |  | 310 | 150 |  | 514 |  | 1 1， |
| 14.70 |  | 574 | 173 N |  | 510 |  | 1387 |
| 1642 |  | 870 | 24，35 |  | 81.4 |  | 20， 31 |

Valees of the Imports and Exports in the Year 1842-43.

| 40 NTHE |  |  | - H ONTHE | EY NATIVE CRAFS |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Importe. | Bxparts. |  | Itmparts. | Expertis. |
|  | Spraish donlans- | Spanish doliamen |  | Sporatub doliars. <br>  | Spmish dotiora. 63t 309 |
| Nast...... | S! | 742.718 | Mug. |  | 538,309 |
| Jasy. | 1, 274.799 | mances | deily.... | 159,463 | 151.853 |
|  | 712319 | 179,972 | Augrat.... | 116,2098 | 154,073 |
| Sepptembar... | 676.151 | 348,449 | September. | 107,519 | 160,26 |
| Oetober | 1,343,491 | 737,980 | Octatier |  | 160, ${ }^{\text {\% }}$ |
| Soreminer. | 709.813 | - 718,487 | Norwabet., | 150,59 | 183,611 |
| Decerenber. | 959730 | \$57,637 | Decrinumer... | O+,563 | Exaz |
|  | 400.659 | ${ }^{337.407}$ | Janasty ........ | 4).6.10 | 4*TMS |
|  | 5.84,564 1891.708 | 850.405 853.457 | Pebewiry ....a. | 199,090 88.334 | spants |
| Marchi. ....e. | 1,201.770 | 853.467 $920.6 \pm 3$ | March.... | 1290, 33\% | 13,219 |
|  | 10,301,4t | A831, 605 |  | 2.63 L4 4 | 2,5451039 |
|  |  |  | Terat....... | L\$, ESY) | 14,467,356 |


"Singapore derives its importance solely from being an entrepot for the commerce between Eastern and Weatera Asia, end also betreea the latter and Eurape. For this it is admirably situated by its geographical position, being io the direct track of vessels going betwixt the Indian and Chinase Seas, and in the immediate vicinity of the Malay Peninsula, and the richest of the Indian islands. There is scarcely a port whase trade is so diversitied as that of Singapore. The chief Asiatic productions to be found in its maiket are gold-dxst, pepper, Bacca tin, betel-nut, edible birds' neats, coffee, raw silk, 5 c 2
sugar, tortoise-shell, béche de-mer,* cassia, sago, ebony, gambier or catechu, gunnes, $\dagger$ rattans and a multitude of other artieles, the produce of the Eastern Islands Slam Annam, and the Pbilippines, which are re exported principally to England, China, and Indua in exchange for British cotions, woollens, iron, hardware, firc-arms, Chinese articles, Indian prece goods, oprum, \&c
"There are a great number of sago manufactories on the sland, whech afford employment to several hundred Chanese manufacturers The sago is unported in its rough state from Borneo The total quantities exported from the island were, in

| 1888 |  | 1839 |
| :---: | :---: | :---: |
| Sago Flour | 20404 piculs | 28.390 prevds |
| Sago Pearl | 62,924 | 56038 |

" 18,103 prouls of pearl sago and 28,030 preuls of flour sago were exported to England in 1840-41, 774 preuls of pearl and 200 of flour to foreign Europe, 242 of pearl to the Unted States, 320 to Mauritus and Australa, 1765 to Calcutta 356 to Madras, 639 to Bombay 233 to Mandia and 744 to Clma
"The extent of the commerce with different countres will be seen bva reference to the following return of the comparative statement of the trade of Singapore, imports and oxports, during the past five years
"Tte Offictal Report of the Trade of Sugapore for the official year 1842 43, is compled wth great care from the vouehers furnished by the merchants and traders, but it is beheved that the actual amount of business transacted exceeds considerably what is shown by these tables There is an apparent decrease in the trade, attributed to the diminished importation of two artucles, wiz, opium and cotton-the general trade has not diminished, and with China, where the greatest fears were entertamed of a falling off, there is a deeded improsement on the whole This report is condensed as follows in the Singapore Free Press
"The value of imports into Singapore for the offictal year ending the 30th of April, 3843 (exclusive of the nutermediate trade with Penang and Malaeca), agregated 1,243,251 dollars, exhbitug a decrease compared with the preceding year of 659,269 dollars This decrease is attributable to a falling off in the trade with the ports of Calcutta, Bombay, Stam, and Celebes
"The exports from Stagapore for the same period amounted un value to $10,783,324$ dollars, showing an merease over last year of 237,812 dollars
"The whole imports and exports for the period under notice were, $23,218,575$ dollars, and the internedrate trade wih Penang and Malacca, during the same period, netted $1,401,068$ dollare, making the entire value of the trade, $5,535,565 l$ stering Thas amount is exclusive of the value of goods transhipped in the harbour, which, from the ofticual statements, appears to have been conederable
"The yearly-mereasing extent of the commercial intercourse with Great Britan, boil as regards value and extent, is celculated to afford mach gratification In cotton goods, which forms the most considerable article of import from Great Brtan, a considerable increase was reparted last year, wheh has continued durng this, and the Hake is the case with the general trade, and espectally in the staple article of cotton twist
"The mports from Great Britan in the official year 1842 43, amounted to $2,847,577$ dollars, exhibiting an merease over the previous year of 166,203 dollars The principat

[^32]Artucles imported consisted of cotton twist 7726 piculs * valued at 327,023 dollars, cotton and woollen goode, 404,901 preces, 12478 corges $\dagger 52,218$ dozens-long ells, 6280 preces striped lists 1858 preces camlets, 2055 preces-caps, blankets, \&c, altogether of the estumated talue of $1,622,627$ dollars, uron, steel, and other metals, 121,547 doliars ston gunq, muskete, foulhg-pleces, and other muntions of war, 61,300 doliars, flint stones, 18,724 piculs, and gunpowder, 2777 piculs, together with vantous other articies

The exports to Great Brtaso lunng the same penod, amounted in value to 1405400 dolhrs, calubing a decrease, compared with the preceding year, of 324,740 dollars In the articles of gambiter tea and tin, there is noticeable a considerable merease The phacipal articles exported during this period were, gamber 125,033 piculs sago, pearl, and flour, 22471 piculs, pepper, 13,753 piculs tea, 17,017 prouls, 1上 10215 piculs, camphor 1911 peuls, and antimony ore, 8286 preuls

The nett imports and exports between the two places aggregated 4,252,977 dollars, bu ung nearly one sixth of the entire trade of the port During the same period, Il4 British registered vessels, amounting to 37,010 tons, arrived from and departed for Great Brtan beng a conssderable merease over the prevous year
"The macatude and mportance of the commercial intercourse with the Mother Country is suffictently obvous from the preceding statements, aud as there can be no donbt that it is in a great measure owing to the enture freedom from restrictions of any land on commerce which prevails at Singapore, it is to be hoped that no such measures may ever be amposed to check or arrest the progressive adpancement of thes settlement

Continentsl kutiopp - The trade with Continental Europe has, as was anticipated list year mereased for, while the toports then amountel to 243,971 dollars, they have risen an the official year 184243 , to 353002 dollars Durng this latter period, the puncipal imports were arms, valued at 15,872 doltars beer, wines, and sprits, 35,737 dollars cotion and woollen manafactures, 45,766 dollars glass ware, 24,882 dollars, metyls, 40752 dollurs, and specte equivalent to 40330 dollars There appears substantail ground to boheve that the English merchint and manufacturer will have to encounter powerful and successful competition from Belgum, as it appears that the woolleas from that countiy are generaliy of equal, if not superior texture, to those usually sent out from Bng land, and more reasumable in price, onving no doubr, to the greater cheapness of the cost of production Thu Belgian manufacturer will thad in China an ample field for the dispoisal of has goods as coon as the trade of that vast empres shall be fully thrown open to the enterprise and captal of the commercialists of Europe

The exports from Sugapore to Continental Lerope also exhbit an nerease over the proceding ytar of 139,180 doliars The artueles exported, consited of, cassia, 2252 pruls sog ir 3637 piculs pepper, 11,809 prouls tea, 2680 piculs, tio, 3855 piculs mud ofher monor articles Durag this pertod, twenty erght vessels of the burden of 9073 tons arrived from and departed for, toretgn Curope, proncipally under the $k$ teach, Belgrin Ha nourg, Bremen, and Dabrsh fags

- Uvited Srates af Amenica-The irnde with the United States has improved durigg the oftictal year 181243 , but it is still ery weonsiderable, the whole imports being hmited to 75782 dollart, and the exports, 89,242 dollars The tivo primeipal artic les of import were cotion goods, mnountung to 13,070 pleces, valued at 34,358 dollirs and lade, 268 piculs, 15,972 dollars The exports consisted of sago, spices, tea, tor \&c

Maurictics, Alsiralia, and Capl of Good Hope -The value of the imports from these places as, a might be expected, ,ery insignificant, amountugg to oniy 25,960 dullar, the mo 1 important articie being provisions The exports are more considerable netung a7o iox dollirs, showng an increase over the preceding year of 83518 dollars The thrarticl * were coffee $\quad 082$ piculs rice, 3964 preule, sugror 31,174 piculs tes


It pphais that dusing ths vear, several vessels have gone from Singapore to the
$P_{1}$ at a conmen Chuese wagbt of 100 cattee or 1600 tacls, equal to lo3t ibs aporduposs + Ascore

Isle of France with Chnese coolies These men exhbited no reluctance, but the reverse, to proceed to that colony They usually enter into a written engagement, by the terms of which they bud themselvea to serve for two years, recening tive current dollars a month of wages, with a datly allowance of two posads of nce, a quarter of a pound of salt-beef, pork, or fish, and two jackets and drawers and ? blanket vearly They are likewise prowided with medicines and medical attendance ar the expense of then emplovers
"Calcutra - The commerce with Calcutta is of great importance and extent, and of the most valuable description The imports for the year endiog Apsit, 1843 , amounted to 2,927,306 dollars, Bhowing a derrease, as compared whth 184142 , of 519240 dol lars Thus is manly attributable to the dimuashed mport of the arucle opsum Of this drug, 7890 chests were imported during $1841-42$, whereas, in the succeeding year, the number reported at the Registry Office, was only $4 \overline{55} 5$ chests This decrease hes, no doubt, aisen from a greater quadtuty than formerly having been sent direct fiom India to Chuma sance the peace-no doubt under the expectation of finding in Hong kong a nearer and more cenvenuent depoft than Singapore The most importunt articles of thport were, cotton, 4337 bales, ree, 8871 bags, wheat, 7208 bags, gunntes, 475050 opnum, 4558 chests The exports amounted to $1,565,320$ dollars, exhibitug an merease of 285,138 dollars over $1841-42$ The most promment artseles of export were, golddust, 13,812 bunkals, ${ }^{*}$ valued at 420,100 dollars, bultion and specte, equal to 770,844 dollars, cygars, $8,813,500$ nos, in value, 68,488 dollars pepper, 16,067 piculs, teר, tiree packages, 140 toxes, and 2088 piguls, and ton, 2881 piculs
"The fact of so large a portion of the returns being made in the prectous metals, shows that the trade is highly advantageous to Calcutta, and that even were Contunental India required todefray a share of the expense of the govermment at Singapore, the Indan revenue would be more than remunerated by the great went wheh a aftorded by thas port to the products of Contanental India, especsally of the artele opura
"Madmas and Coast of Conomandis - The traffic with the const 13 on the decline, and his been so for several years past, there appears little likelihood of as ex periencing any material mprovement, since the former extensive and lucratte trade in Madras plece goods, which were the principal imports from the coast, has been nearly destroyed by the Britush article, which has been making such rapid progreas both in the strats and Indaras as be gradually driving the Indoan manufacture from the fiedd The maports for the year 184243 amounted to 215154 dollars, exhbitug ? deche as corapared with the previous year of 133,757 dollars The two pancppal stems were cotton, 4942 bales, and cotton piece goods 16,841 corges The exports do not show an encouraging aspect In 184142 there were 195,852 dollars, while last year they ondy attaned to 152069 dollars The most mportant export was specle to the extent of 76,212 dollars
"Bompax -A very senous decline is apparent in the smports from Bombay, as will be seen from the comparison of the two last official years -in

## 1841-42 they amounted to 817,115 dollars <br> 184248 <br> 410,876 ,

"This decrease is chicfly from the dimuished importation of two articies, viz outton and Malwa opium, the former baviag dechaed from 11,298 to 9363 bales, and the latter from 1893 to 393 chests
"The exports for the year 1842-48 were 520,867 dollans, showing a decrease from the previous year of 183,081 dollars This decline appears to have arisen chuefly on the articles of sugar and spices of the former only one-half of the quantity exported in 1841-42 was sent last year- this is to be attributed to sugar being now sent direct from Siam to Bombay, instead of being landed at Singapore as formerly The proespal exports durng the past official year were, alum, 2925 piculs henjamu, 1021 piculs camphor, 454 piculs, gambier, 3218 preuls, gold dust, 826 bunkals, valued at 25,251 dollars, raw sill, 270 piculs sugar, 41,783 piculs eigars, 2131 boxes, tea, 717 piculs, tin, 2200 preuls, andepecte equyaleat to 55,884 doliars

[^33]"Arama.-The whole imports and exports in 1842-48 aggregated 145,148 dollars, showing an inerease over the previous year of 38,148 doltars. The commeree is solely carried on by vessels which anrually proceed to Araba with Mahomedan pilgrims, who congregate here from Java and the surtounding Malayan States.
"Manilla,-It is gratifying to observe eas improvement in the commeree with Manilla compared with the previous year. Daring the past officiat year the gross imports were valued at 323,932 dothars, beiug an inerease of 111,090 dollars. The mast important articles of import consisted of hemp and rope, 2014 piculs; cigars, 20,770, 100 ; sugar 6546 piculs ; tea, 585 piculs; and sapan-woad, 19,306 piculs; it would also appear 5300 pieces of Britisil piece groods were imported, probably on account of their being unsuitable for the Manilla market. The exports have decreased 9932 doltars, as in the year 1841.42 they amounted to 187,247 dollars, and in the past official year they were 127,315 doliars. The chief articles were opium, 49 chests; iron, 3762 pieuls ; and Bricish eutton goods, 88 dozen, 60 corges, and 4189 pieces.
"Cexcon.-The trade between Singapore and Ceylon is nearly extiact, the only item of import being 170 pienls of ebony, valued at 85 dollars. The exports amounted to 6,498 dollars, consisting of numerous smail articles.
"Rangoon and Morlargas.-The increabe in the imports lagt year amounted to 19,401 dollars, which, considering the whole extent of trade, is satisfactory, In 1841-42 the imports amounted to 27, 414 dollars and in 1842-43 to 46,841 dollars. They corrsisted' of grase 1916 bags ; paddy, 2800 piculs; wheat, 3000 bage ; rice, 3950 picule; timber valued at 22,864 dollars. The exports have declined from 20,445 dollars to 15,034 dollars. They principally consisted of opium 10 chests; muskets, 640 , and specie: $=2227$ dellars
"Chuna.-The trade between this port and China, it is gratifying to find, continues improving, the importsamounted to $1,990,810$ dollare, being an excess of 43,506 dollara over the previonc year, tending to show that the fating of in that year arose from temporery causes, and not from any permanent dectine in the trade. There is aconsiderable increase in the articles of tea, cassia, camphor, crockery, tobacco, bullion, and copper eash; on the other hand, there bas been a falling off in taw silk from 1095 picuis to 253. The principal imports were cotton and silk goods, 3467 pieces and 16 cases; nankins, 74,950 pieces ; cassia, 11,696 picule ; campleor, 2185 piculs ; ereckery valued at 168,259 dollars; raw silk, 253 picule ; sugar, 5,889 piculs; tea, 74,205 boxes, and 6335 piculs valued at 675,964 dollars ; tobacco, 2740 basketa; specic and bullion equivalent to 418,105 dollars. It may be noticed that a large portion of the tea imported was of a very inferior quality, and cansed most serious, and in many cases, ruiacue losses to the Elippers, principally Chinese merchants. This particular branch of the juuk trade may be expected to decline rather than augment. The exports to Clina amounted to $3,627,802$ dollarse being double those to any other country or state, not even excepting Great Britain. Thay exceed thase of the previous year by 569,600 dolhars. The principal exports were, betel-nut, 20,291 piculs ; bèche de mer, $\tilde{0} 070$ picula ; birdst nests, white sad black, 343 piculs ; catcon, 27,192 bales and 50 piculs ; coiton twist, 1799 pieule ; cotton pieze gaods, 88,288 preces, 305 yards, 36 carges, 100 dokenf; iron, 10,814 piculs; opium, 3436 chests; rattans, 34,520 picais; seanweed, 5377 piculs; pepper, 18,602 piculs; tin, 2986 picula; woollens to the value of 121,515 dolhars; specie, equivalent to 22,542 doliars. During the official year 1842-48, 18 ! junks equal to 22,542 tone arrived from different ports on the coast of China with cargoes and emigrants ; showing an inerease oper the previous yeat of 31 jubks and 4742 tons.
"Java--The imparte of the official year 1848-43 exceed those of the preceding year by 209,450 dollars, the gross amount being $1,108,273$ dollars. The imports in the most important items were, birds' nests, $47 \frac{1}{4}$ piculs ; benjamin 1181 picuis; coffes, 5804 piculs; cotton goods, Malay, 2423 corges, and 8000 dozens; rice, 194,817 picals; copper, 673 pieals mace, 724 pieuts; notmegs, 1351 piculs; eloves, 150 piculs; spirits valued at 49,411 doltars; Bugar, 17,548 piculs ; tio, 4198 piculs; tobaceo, 712 corges, and 12 piculs; woollens valued at 46,032 dollart ; and specie equivalent to 196,587 doliara. The exports aggregeted 451,056 dollara, showing an increast of 28,579 dollars over the preceding year. The priacipal articles were, couatry cotton goods

9173 corges, and China cotion goods 152 corges, Chna crockery valued at 52,440 dollars opium, 66 chests, raw sitk, 55 piculs tea, 10,258 boxes, and 443 piculs China paper valued at 22,520 dollars, and specie equal to 15969 dollars The small quantily of gram produced at Singapore, hardly equal to the consumption of the population for one weet, renders it exceedingly desirable to have the means at hand of obtaning a large and constant supply-this Java furmshes, and this alone renders the trade with that ssland of consuderable mportance and interest if the returns for 184243 are at all correct, 194,817 pieuls were amported during that year, equal to $25,975,600 \mathrm{lbs}$, wheh, estrmang each adult to consume 730 lbs , per annum would furnish a supply for 35,583 adults The whole population of Singapore is supposed to be about 50,000
"Ruto -The imports were 145767 dollars showing a trifing decrease of 153 dollars, contrasted with the previous year The chief inports were, gambier, 36658 picuts, pepper, 2910 prouls, and rice, 4060 piculs Rho is the only place from whence gambier is tmported into Singapore, so that there would be hitie difficuity in ascertanngy the quantity produced in the island during the past seven years The quantity now growo and manufactured is certandy not less than 70,000 prouls 1 Ia $184142,93,342$ piculs were exported, and 18,644 piculs were imported, leaving 74695 piculs to be accounted for In the past official year 148,746 piculs were exporied, and 38,695 piculs were imported, showing a difference of 110,451 piculs It is, hovever, very probable that a quantity was in hand, or in progress of shipment, when the offictal returns were made up The exports have dechined considerably, having fallen from 200,103 dolfars in $1841-42$, to 144,504 dollars in the succeeding year The decrease appears to be in opium, sugar, and salt Rho may be considered as a free port, as there are nether imports or export duties strictly so calied
"Sian -A considerable decrease in the umports from Suam amounting to 151,888 dollars, has been experienced They amounted during the period under review, to 260,115 dollars This dimanution as altributed to a falling of in the mportations of oll, rece, and augar

| ARTICLRS | 1851-42 |  | 1342-4: |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Qunatity | Valut | Qamutit | Yalut |
| $\left\{\begin{array}{l} \text { Oil } \end{array}\right.$ | picula 2, 106t 17 mog | rupees 14700野 78 | $\begin{gathered} \text { puenle } \\ 1250 \\ 5550 \end{gathered}$ | dollare <br> 11050 <br> rapees |
| Sugar | 54848 | 294205 | 2543 | 125333 |

" It is probable that the falling off in the mport of sugar arose from ts being sent direct to Bombay, as before mentioned Besides the three artucles above noticed the other umports were, hardware, valued at 13,413 dolfars, salt, 51520 piculs sticklac 2297 piculs, tea, 1229 boxes, 132 piculs, \&e The exports amounted to 357,492 dollare, being a dechne to the extent of 51614 dollars from the previous year The exports conststed, among ather thungs of cotton tivist, 581 piculs, British cotton goods 500 corges, 61,466 pueces, and 200 dazens, colton goods country, 680 corges Chna ditto, 4044 preces, iron and steel, 2642 piculs, and 259 kegs, xaw silk, $41 \frac{1}{2}$ piculs, specie and bullion equal to 89,895 dollars
"Cocirn China - There appears to be an mprovement in the imports from this country, there beng an excess over the prevous year to the extent of $46,30 \mathrm{l}$ dollarThe total amount of imports during the officul year 1842 43, was 954,785 dollars They consisted chiefly of raw silk, 149 piculs, rice, 12,010 piculs surar 27,540 piculs and salt, 15,120 piculs The exports, on the other hanh, exhibn a decrease of 20,470 dollars The gross exports durng this period were, 227,848 dollars, consistmg chiefy of cottom, 1084 balcs and 985 piculs. British cotton goods 3588 preces oprum 263 chests, and woollens to the value of 25,378 dollars Durngy the same ume, etghty two bonts, equal to 4195 tons, arrived here fiom Cochu Chma
"It was notuced in last year s report, how extremely liable the Cochun Chmese boats
were to be plundered, and their crews murdered or made slaves of by Malay and Chinese pirstes, in coosequence of sheir being entirely defenceless. During the past year many ustances bave occarred which too well justity the statement. It is hoped that the measures which goverument are contemplating will have the efiect, during the approaching season, of materially diminishing, if not altogether checking the evil, at least in the vicinity of our shores.
"East Coast of Peminsula.-The returas show a decrease in the imports of 41,637 dollars. The tutal imports were, 411,330 dollars; amongst which were comprised, gold dust, 7356 bunkats, valued at 223,193 dollars; pepper, 1555 piculs; tin, 6680 piculs; specie, equal to 42,021 doflars. The exporis amounted to 454,962 dollars, slowing an exress over 1841-42 of 61,478 dollars. They comprised cotton twist, 1512 piculs; British cotion goods, 17,430 pieces, and 644 conkes; opium, 297 chests; specie, equal to 83,496 dullars, ber. During the year 1842-43, 336 boats, equal to 4393 cons, arived at Singapore from the different ports on the east coast of the Malay peningula.
"West Const or Prniysula,-This commerce is by no menns improving, the gross imports and exports for $1842-43$ being only 3204 dollaza.
"Celebes and other Eastern Islands.-In the year 1841-42, the importa reported were equal to 327,552 dollars, and in 1842-43, they only amounted to 113,709 dothors, strowixg decline of 243,843 dothars. Were the cause of this geemingly great falling off not of ensy and satisfactury explanation, it would be catculated to excite fears as to the stability of this valuable branch of the consmerce of the poth. It is well known that the Eugese and other eastern traders come lucre with the soutberly winds, trenching as close as possible upon the last of the monsoon. Whether the monsoon set in earlier last seaton, or the Bugese boats were later than usual in departing for Singapore, is not ascertained-twenty-seven bouls only, however, succeeded in reaching Singapose; the rest were compelidi, io consequence of adverste winds, to put into Java, where the Nacodahe sold their cargoes and purchased returns. It is said that the Duteh authorities considered it politic to exhibit unwonted liberality on the accasions, by a remission of the usual duties, no coubt as an inducement to the Bugese to resort to Java in future, instend of Singapore. It is extremely probable, however, that this encouragenent, even if continued, will fall in producing the wished-for effect, pee, from the absence of all restrictions, Singapore is deservedly held in high estimation by the Bugese aud other traders from the Eastern salands; and solong ss the existing wise policy is adhered to, we may calculate an setaining the chief portion of the Bugese trade.
" We are glad to know, that this season there is no falling off in the number of the Bugese traders who generally resort to this port. The number of boass which have abready artived exceed 400 , so that the Chinese and olker native merchants, who chiefly transuct the business with the Bugese, are in full activity. The present great searcity of money, however, we are informed, is rather impedeng the brisk exchange of commodities, owing to the difficulty thercby created to the native merchants, of oltainiug from the European coumission-houses the piece-goods which they barter with the Bugese for their imports. We also learn that the Bugese this year are, 10 a much greater extent than tormerly, dealing directly with the Luropean merchants, having, through some cunse or ohher, Jost their confidence in the native deaters.".-Singupore Free Press, October 26.
"The exports ambunted to $\$ 23,919$ dollarg, showigg a decreuse from 1841 - 42 to the extent of 225,405 dollars.
"Boanco.-Although in the comparativc abstract statement, there is an apparent iocrease of imports to the extent of 9275 dollars, there has been an actual decrease it the legitimate trade of 35,725 dollart- 76 cbests of opinm, which went to swell the amonat of importar baving feen returned. The imparts consisied of antimony ore, 7478 piculs; goid-iust, 4337 bunkalg, valued at 126,652 dollars; ratens, 9050 piculs; specie, equal to 7395 dotian, dee. The antimony ore comes principally from Sarawak. The exporis for the year 1842-43, emounted to 296,637 doilara, showing a decrease of 22,311 dallars. The most important were Brinish cotton goodq, 3908 corges, and 15 dozen; opium, $2: 27$ chests; lea, 1928 boxes, and 52 piculs; and specir, equal to 34,202 dollarg.
*During the year $1842-43$, 88 boats, equal to 2701 tons, arrised at this port from Borneo.
"Bakly, Lompock, and Sarawak.- The imports were $\mathbf{1 8 3}, 395$ dollars, being'a slight increase of 892 dollats over the previous year. They comsisted of coffee, 1010 picuis; rice, 96,211 piculs; and tobacco, 2449 piculs. The gross value of the exports amounted to 189,333 dollars, being a decrease of 23,745 doliars from the preceding year: There were British colton goods, 6193 pieces and 177 corges; opium, 217 chesta ; and copper tokens valued at 27,089 . The trade during the past olficial year was carried on chiefly by square-rigged vessels. Twenty-eight native boats only arrived, whereas in 1841-42 there were 183: the same cause which prevented the Bugese reaching operated in the present case.
"Sumatra.-The importa in the year 1842-43 amounted to 284,001 dollars--beiag an increase of $\mathbf{3 5 , 4 3 5}$ dollars. There were bees' wax, 611 pieuls; bebjamin, 852 pieuls; betel nut, 9324 piculs; coffee, 2581 piculs; eottom, 3660 picols; gold dust, 647 bunksis valued at 19,705 doltars; tice, 8153 piculs; pepper, 4987 piculs ; raw sago, 201,910 bundles; and specie equal to 57,810 jollars, \&c. The exports exhibit a decrease of 69,234 dollars, having amounted in $1842-43$ to 188,922 dollars. The chief were British cotton goode, 5285 pieces and 336 corges ; country ditto, 2116 carges; China crockery valued at 9609 dollars; paw silk, 43 piculs; copper tokens pathed at 24,655 dollars; and specie equal to 80,866 dollars.
" Nefghboutivg Iglands and othea Peaces.-The value of the imports in 1842-43 monouted to 169,771 dollars, showing an increase of 41,254 dollars. They priacipally consisted of béche-de-mer, 1214 piculs; gold dust, 665 bunkale, valued at 19,450 dollazs; tin, 1438 piculs; oil, 2269 piculs; tice, 11,530 piculs; and specie equal to 29,817 doilars. The exports exhibit a still greater'increase-the gross amount was $161,4 \cdot 49$ dolhars, exceeding 1841-42 by 66,308 dollars. The chief articles were British cotton goods 3087 pieces and 90 corges ; opium, 27 cbests ; sugar, 1292 piculs; and specie equal to 73,210 doliars.
"Prbnce of Wales' Island and Malaoca.-The ibtermediate trade with Penagg has materially declined, and the exports to Malace have also fallen off.

"The Junk Season.-The number of junks which have arrived this season, 1843, greatly exceed the arrivals last year at the alme time. The arrival of emigrats has aiso been very large, being to the 19 th instant 6883, of whom 1168 have come by squarerigged veasels-a netp feature in the history of Chitese entigration-and 5725 by jonks. The number of emigrants last year was about 1600 , and the year before 7000 ; but judging from the number who have alteady arrived, we may anticipate that this season they will not fall mach short of 9000 . They are chiefly dispersed through the Straits' setule ments and the neighbouring Dutch one at Rhio. In the Straits there will be au increased demand for labour for the sugar estates, which will absorb some of the surplus, and we understand that the cultivation of the gambier is being caried on in Jahore rather extensively by the Singapore gambier planters. We do not know what number go to Rbia, but we should think that it cannot be on the increase, as we are informed must of the gambier and pepper plantations in the vicinity of Rhio bave already been or will soon be exhausted and abandoned."

TuE following is the Total Number of Yessels which passed the Straits of Sunda during the Eeare 1844, which were signalised :-


## TRADE OR SINGAPORE FOR 1846-47**

"Carsa. -The imports during $1846-47$ amounted to $4,282,349$ rupees, exceeding those of the previous jear by $1,138,787$ rapees, The improvement of the imparts from China appears, however, to be inore apparent than real. The increase is more than covered by two items-aantely, excess of treasure and buthion over preceding year 1,220,136 ropees, and 200 chests of Turkey opiam valued at 223,258 tupees. There was a great falling of in the artieles usually imported by the funks, such as camphor, alum, China crockery, China piece goods, gold thread, silk, \&ce. The principal imports were China camptrar, 5516 pieuls; China crockery, vahued at 285,543 rupees; raw silk, 323 piculs; tea, 22,295 boxes, 282 packages, and 292 pieuls; joss sticks, valued at 110,180 rupees; ahum, 9740 pients; liardware, 44,497 rupees: China tobacco, 2708 baskets, and 370 boxes.
"The exports present a decline, having only amounced to 4,923 ,556 rapees, being a falling off from the previous year to the extent of 838,120 rupees. This arises from a diminished export from this to China of British cotions, flinta, sapanwood, cotton, twist, copper, tin, lead, de. The chief articles of export were-gons, 415 ; betel nut, 7602 piculs; birdst nests, 296 piculs; beche de faer, 7521 piculs; cotton, 6694 bales; twist, 465 piculs: British cottons valued at 84,391 rapees ; icon, 6961 piculs; tin, 1270 picuts; Bengal opiam, 1834 chests; Malwa opium, 986 cheste; rice, 41,358 piculs; rattana, 44,006 piculs : black pepper, 10,603 piculs ; woolens, 62,346 rupees; Garro and Lakke waod, 4122 piculs; Sapran waod, 2567 pienis.
"Ninety-one junks, equal to 15,076 tons, arcived from China, being a decrease of tbirty-one juiks, and fing-one tons. The number of emigrants from Chinadurisg 184647, by junks were 7593, sind by sixteen square-rigged vessels 1976-total 9569. The most industrious and healthy proceeded to Penang, Malacca, and elsewhere, in search of labour, the sickly, idle, and vicious, remained at Singapare.
"J. ${ }^{2}$.s.-The imports amounted to $1,676,078$ rupees, being a decrease of $\mathbf{1 3 3 , 4 2 3}$ rupees. This decrease appears to stise on the articles arrack, benjamin, eoffee, Java piece goods, 8 cc . The principal inports consisted of-arrack, 127,180 gallons, and 526 cases ; Japan copper, 6577 priculs ; Java, pieee goods, 2003 corgers; tice, 43,369 piculs; nutmegs and mace, 87 piculs; sugar, 17,217 pieuls; Java tobsccu, 20,322 baskets, und 168 piculs: treasure and bultion valued at 111,491 rupees.
" The exports amaunted to 801,965 rupees, showing an facrease of 11,093 rupees, arising on opinm, tin, China crockery, \&se. The ehief exports were British piece goods, valued at 49,218 rupees; country ditoo, 106,956 rupees; China crockery, 69,412 rupees : tin, 1873 piculs; Bewgal opium, 49 chests; Turkey dito, 30 ehests; mw silk, 66 prieuls; tea, 9851 boxes, and 1189 piculs; whent, 3982 bags; China paper, 24,092 rupees; bultion and treasure, 46,029 rupees.
"Rhio-The mports amounted to 506,672 rupees, being an increase of 1836 rupees, The principal articles were, gamber, 27,657 piculs; black pepper, 17,603 piculs; white pepper, 1866 preuls; rice, 12,160 piculs $;$ sugar, 3375 picuts.
"The exports amountedto 417,782 piculs, showing a decrease of 89,816 tupees. The chinef experts were rice, 27,226 piculs; specie valued at 303,679 rupees.
"Slam -The mports amonated to 406432 rupees, shoning a decrease of 51,313 rupees The princupal imponts were singat, 10565 piculs sambouge, $385^{\circ}$ piculs hard ware, 48,733 rupees, cocoa nut oil 1750 ptculs, neee, 9176 picul- salt, 14480 pruls, sticklac 1036 piculs, sapanwood, 10,050 piculs besides a large quantily of sugar, 8 c , tran* shipped on the barbour
"The exports amonnted to 750,3.27 Iupees, showing an nacrea e of 152903 rupees The chici exports nere bees' w $2 x, 143$ piculs, cotton twist, 1088 piculs, Brush prece goods, 255,616 rupees\% country ditto, 47,085 rupees, raw stlk, 54 preuls, specie, $220,4,2$ rupees
"Seventeen junks with an nggregate burthen of 4088 tons arrived froms Slam, being en tucrease of three junks and 808 tone
"The trade whih Stam is cipable of considerable werease, whe our conmerctal relations with that country put on a betrer footing

- Cominn-Chima - There is a falling off in the trade with thas country

|  | Imports | Fxports |
| :---: | :---: | :---: |
| 1843-46 | 619001 rupees | 76.2601 raples |
| 1840-47 | 318804 | 314,843 |
| Decrease | 300,137 yspees | 447736 rupees |

"The princepal mports conssted of, of 1970 piculs, rav silk, 112 preuls, 34,080 preuls salt 12,160 piculs, sugar 6160 piculs
"The priacipal exports consisted of Britash eotton, 41,135 rupees gambier 3500 piculs, opium, 146 chests, tea, 280 bokes and 1860 piculs
"The following are stated to be the port dues levied on vessels triding at the port of Turon

For a vessel of 30 to 36 candies in breadth 102 hgateens per cande

| do | 96 to 27 | do | 144 | do |
| :---: | :---: | :---: | :---: | :---: |
| do | 14 to 2, | $d o$ | 126 | do |
| do | 11 to 13 | do | 81 | do |
| do | 9 to 10 | do | 63 | do |
| Under | 9 | do | 313 | do |

"The value of the ligateen is fluctuating two are generaily equivitat to a dollar The candee is equal to egghteen French imehes, or $19{ }^{1}{ }^{10}{ }^{2}$ Eng Ensh inches

- Bunneo - The imports from Bo neo amounted to 791,803 rupees shonog a decrease of 300,401 rupes chelly ingold dust pepper rittans, May camphor, \&e The primelpal items were antimony oies from Sarawtih, 1950 piculs bees wat 0.0 prouls birds-nests, 275 prouls, blat $k$ and 9 piculs, whit Maliv canphor 14 piculs ratians, 20,972 pleuls sago, raw, 113980 bundies, and 1100 prouls treisure and bullion, valued at 356,729 rupees
- The exports were 889982 rupees, showing a decrease of 59,645 rupees The chnef were -cotion twist, 57 picals Butsh peace goode 2,9641 rupees country do 174,730 rupees, Chana crochery, 17,628 rupees hardaree Glto rupees mon 1147 piculs nankeen, 35,000 preces opuam, 193 chests now, 12,121 putis tohens, vilued at 31,374 rupees buthon and treasare 90061 rupecs
"One hundred and tweke bouts, whit an aggregnte tonnge of $3+14$ tons, arriced from Borneo, bemg a decreace of ten boats, and 241 tuns A great mere asc of trade will, however, take place with Borneo from the thorotigh protection aganst the parits, wheh the Brtush nayil and polutil staton at the commitudng port of Labuan wil bereafter afford
"Bakty, Lovbock, and Sumbura -The mports amonated to 411488 rupecs showng a decrease of 148,902 wapers The thef tema wer -white burds -nesty 4 prouls coftee, 3771 piculs rice, 88032 pieuls, tobace, 2410 piculs copper tohta, 17,972 rupees, and specte, Git bis, rupees
"The expoits mounted to 432,017 apper a, showing a small decrease of 9848 rupear The pancipul exports were -musklis, 97 , Butish prece goods 70260 upus opiam, 148 chests of Bengal, and 50 of 1 urkey, raw silh, 24 pieuls and copper toheas, valued at 39,241 rupecs
" Lighty-eight boats, with a tonnage in all of 3356 tons, arrived from Bally, Leurg three boata less than in the presious year
"Celenne.-There is a considerabie falling off in the trade when compared with the preceding year; but if contrasted with the year 1844-45, there is a considerable inerease. The returns of the trade for these three years are as follows:-

"The prineipal imports, in 1846-47, consisted of:-beche de mer, 2528 piculs; beex-wax, 233 piculs; coffee, 7146 piculs; country piece goods, 225,205 rupees; mather-0'- - pearl shells, 2881 piculs; rice, 6090 piculs; tortoise shells, 101 piculs; treasure and bullion 170,477 rupees.
"The exports of importance were arms, valued at 11,934 rupees; cotton twist, 1273 piculs; Brilish piece goods, 231,103 rupees; country ditto, 34,389 rupens; gambier, 4668 piculs; hardware, 16,068 rupees ; nankeens, 5000 pieces; opium, 102 chesta; and copper tokena, 167,946 rupees. The number of Bugis boats which arrived here in each of the chree followiag yegrs were:-

|  | No. | Tons. |
| :---: | :---: | :---: |
| 1844-45. | 94 | 8459 |
| 1835-40. | 145 | 3298 |
| 1846-47. | 110 | 3120 |

"Surmaras.-The trade with Sumatra appears to have somewhat diminished. The following is the result compared with the previous year :-

|  | Imports | Exports. |
| :---: | :---: | :---: |
| 1845-46. | 703,054 | 524,825 |
| 1849-47. | 551,402 | 514,509 |
| Decrease. | 151,659 | 10,318 |

"The principal imports consigted of beeswax, 451 piculs; betel-nut, 6400 piculs; benjamin, 2520 piculs; coflee, 1442 piculs; pepper, 1906 piculs; ratans, 6755 piculs; raw sago, 288,192 bundles; Gish maws and shark fans, 262 piculs; treasure and bullion, 176,099 гирееs.
"The nost important exports were twist; 63 picula; China crockery, 10,439 rupees ; British piece goods, 98,301 rupees; country ditto, 105,030 rupees; hardware, 7258 rupees; opium, 41 ehests; raw silk, 16 piculs; salt, 10,683 pheuls; copper tokens, 37,695 rupees; treasure and bution, 12,20 ; repees ; 507 native boats, wath a totnage of 5617 tons, mitived here, beng an inerease of 33 boats.
"East Const of thim Malaxan Prmassula,-A very considerable increabe is observable under this head.

"The priveipal imports consisted of country piece goods valued at 42,459 rupees; hides, 826 picuts ; pepper, 3116 piculs; salt, 25,340 pienls; tib, 4184 piculs; Garro word, 403 preuls; bullion aud treasure, 866,793 rupees.
"The priacipal exports appear to have been cotton twist, 2514 piculs; British piece goods and woollens, 160,637 rupees ; country piees goods, 33,163 rupees; iran and steed,

- The following exhibits this trade for seven years past.

| \% C ARS. | Injpors. | Exparts. | YEARS. | Imperts. | Exporta. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4840- 41. | $\begin{aligned} & \text { yents. } \\ & 76 \geq, 431 \end{aligned}$ | tows | 184.1-45 ................. | t608, | tout |
| 1:11-42, |  | 18.503 | 1615-vith................. | 1,139,270 | 1, 1f00, 054 |
|  | $0.20,373$ $1,4+4.810$ | 2,041,231 |  |  | 1,4, 23,950 |

11,566 rupees, opiom, 483 chests, silk, 54 piculs, nice, 8750 piculs, tcbicco, 49,269 rupaes . specıe, 139,127 rupees.
" Wegt Coast of the Malayan Peninsula - The imperts and exports amounted to 72,675 rupees The principal trade is with Penang and Malacea
"Netonnoumifg Islands and oferea Places -The trade, contrasted whit that of the preceding year, gives the following results -

|  | Imports | Exports |
| :--- | :---: | :--- |
| 1846-47 | 390116 rupees | 304752 rupees |
| $1845-46$ | 290097, | 346832 |
| Increese | 40319 | 17920 |

"The procipal imports were beeche de mer, 1441 puculs onl, 1970 ptevls, raw sago, 125,500 bundles, coffee 493 piculs birds nesta 14 , piculs, in 843 piculs
"The exports consisted amongst others of sitk, 19 piculs opum, 69 chests Bengal and 13 Turkey, British prece goods, 16,664 rupees rice, 12,020 preuls, epecie, 113,544 rupees
"The amount of trade in 1846 47, by squire rigged vessels and by natuve ressels is thus contrasted

By square-rigged vessels
By atative boats junks \&ce

| Imports | Txports |
| :---: | :---: |
| ripess | rupees |
| 21135605 | 16344290 |
| 5.370348 | 5009040 |

"Pbincr of Wales Island - There has been a consderable decrezse in the trade with this place, arising no doubt from the rcvived direct trate between Penang and Great Bratain The total imports from Penang in 184647 amounted to 1,435 650 rupees, and of exports to $1,356,000$ rupees The decrease on mports amounted to 227,305 rupees, and on exports to 513,361 rupees
"Malacca - The trade wit this quarter is impioving The imports mounted to 831,893 rupeea, beang an merease to the extent of 159020 rupees The prinempal indport was tin, to the amount of 15,131 picnis, volued at 605,025 rupees, or about ro, 000 ! sterling
"Shuppang -There is a decrense of 411 tons in maporting in square riged vessels, and a deciense of 1945 tons in naluve boats
" In 184647 there arived of-

| Square-ngged vessels |  | Vessely | Tone |
| :---: | :---: | :---: | :---: |
|  |  | 730 | 222325 |
| Ditto ditto, | junks, de | $\underline{930}+$ | 68,160 |
|  | Total tonnage |  | 2. 0.485 |

"The square-rixgè d craft are classificd as iollows -

| DEgCRIPTION | Vemels. | Tons | DESCRIL110N | Veasels | To |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Amertcan | number 27 | pumber <br> 1) Gind | Browith forwayi | $\begin{aligned} & \text { number } \\ & 2 . \mathrm{A} \end{aligned}$ | nombet 4915 |
| Araulian | 8 | 2,101 | Paptus lese | 7 | 30 |
| Aratrian | 1 | 3330 | Prutian | 1 | 010 |
| Belcian | 2 | 1210 | Rtuesin, | 1 | 330 |
| Presmes | 8 | 1904 |  | ir | 446 |
| Cootur Clanese | 8 | 140 | Simenc | 5 | 1 t |
| Danlsh | 123 | 2139 | tweduh | 5 | 1119 |
| Dutel | 123 | 18, $\mathrm{SA}_{4}$ |  |  |  |
| Preuch | 14 | 4 4 4, | Brilis Torta farcigs | 259 | ${ }_{6}^{4}+$ |
| Naumbrg | 14 21 | $\begin{aligned} & 40,8 \\ & 4,39 \% \end{aligned}$ | BriLuta | fal | $1610 \pm$ |
|  |  |  | Total | 78 | $23 \times 1$ |
| Oarrived bermard | 223 | 49175 |  |  |  |

## There likewise arrived-



Companative Abstract Statement of the Trade of Singaporo with the undemmentioned Places, hatween the Official Years 1845-46 and 1846-47.


Companative Abstract Statement of the Trade of, Slagapore, so. (cimaixued).


ENO OF PAET XX́IIF.


[^0]:    - Fhirdr etment light cuvaly lat or gienaditr regment bilh 15th, 20th and 21 se regituen o natue winatry

[^1]:    - Twenty four degrees below London proof

    3 I

[^2]:    * Ram Narmun Doss - His own words $\quad \dagger$ Sarsa Churn Dutt - His own words
    $\ddagger$ It is tound anconvedent to mase it these liste in the joumal of the Statistical Socrety but Itt are preserved in the archives of the saciety for inspuction

[^3]:    * A million sterling of money is in the course of bung expended upon the Doab Caual and there is not a jent in which the Depariment of Public Works is not disbursing large sums of monky upon roads embankments, navigation sic -W H S

[^4]:    - Coasting and eatrepót duties have from tume to time, beea abohshed and orders have recently been sent to lada to aboligh ail export duhes as soon as the finaneen will admit -W If 5

[^5]:    * (Ind Ree 11200 ) In Mysore Dr Buchanan found that the farmer had to pry the fol Jowing cantributions from bis erop -

    His heap of grain is usualls about 3000 seets Of this is first set apart-
    For the gods or rather for the prasty 5 seer

    For charity to the Bralimins and other mendicants 5 For the astrologer
    " heceditary Bralmon of the village
    Barber
    ,
    Potter
    3
    Carpenter and blacksmith
    ,
    Washerman $\underset{2}{2}$
    Measure
    Readle
    ,

    Clucf of the village
    $n$
    Aecomntant (at harions times)
    Watchman
    Conductor of the water seers
    5
    1 $-514$

[^6]:    Thus haves a remander of 686 seers Of this government takes ten per cent and then ball of the resplue so that when all these drans have been satisfied and the grower remaing in possesston of 1900 scers of rice and from these he hos to satisfy the zemadar and his otficers Upon bis other crops the exactrons are defferedt, but qute as heavy in proporthen to thetr value (Buchanans
    M) sore ${ }^{1} 26.0$ )

    It may be remarked that the ryots are lable to another inconvenvence if tbeir zemondar be in artcar to government, for they arc not allowed to toteb the produce of thear lands watat the government is satisfled whit the secunty given by the zemudar-and this, whear cotion is cult vated, is a very genous andiry

    + The remarhs of Mr Johnatone are apparently not applicable to all Indan Certminly not in their seventy Most of the zemindars art, an the opionon of an authority an whom we have the atmost relance 'in n tourishing condition and the revenuc of Bengal and the North West Provinces is collected wathout the slightest duthenity, or arrears "-W H S

[^7]:    * This as quite wrong nether the agriculturt nor the revenae have declsned Look to the commepurl and mancial rethrna from Inda for the last thonty years - W H H

    1 There is not one ryots wife in a bundred between the Himalay as and Cape Comonn who has not some gold or silver omament ipon her person'-W H S
    $\ddagger$ The ryot does not kepp sheep it is a parncular clas, the dbunghers or slxepherds, who keep flocks - H H

[^8]:    - In 1840 the Agriculturai Misenm of Colcuttre recerred seven lafge and fiteen small parkets of empe seeds of soris fifteen large packets of mank melon seed four ditta water-melon one dixto jarge istambol or acented melon three ditto small istambol of miniatire sconted melon threedito large pomegranate seeds, two ditto small shah took $h$, or roval mulherry, three ditto apple pips ofe ditto peara, one ditto quince and two ditto large pumpkin

    This handsome consignment of seeds has been received from Affgabustan from Colonel Stacy who resides at preseat at Condohar The figwour of the musk melon is described by the donor as delicious and so of the water-melon The istambol melon is not eatets but is carried in the lrand to smell to as thes vanety especially the httle rstambol melon is much esteemed for ta lopely scent The shah tooth or royal mulbery, 16 nearly the saze, and has all the flavour of the English hind

    These seeds were freely distributed to the mesobers preseat, and but few now remaia for apphcants.

    A small bundle of flax prepared from the rhea plant (urtucs trace) of the provnce of Assampresented by Captam Jent ons.

    Thus fibre is described by Captain Jenkins as beant in universel use for the manufacture of fishang-nets and lines At present there is lute trade ia 4 being only grown in such quantites as the fishermen require and the present cost $1 s$ ten mipees a maund but as the plant can be grown with the least possible trouble and the preparation of the fiax from it is a very facile process, Captam Jenkins states, that there wo doubt the flas can be grown at half shas price In texture it is remarkably strong and is very likely to make good linens

    A sample of the root of a plant which the natives use as glue and call "serais. The plant 15 not cuiturated but grows wold in guantities near Candahar-presented by Colonel Stacy

    Dr Spry mentioned that he had tried some expertments with this gelatinous root by boilangand micerating it in wbter but the had been taable to extract ony strong adhesive quality Further trials would probably give other results

    Samples of tea from Assam consisting of "Young Hyson," Totehu Peke" "Pouchong" HHy son Chatear" Sauchang" Big Guppowder" Hyson Skin" and Little Gunpowder" - presented by the Secretary

    The Honostrable the Prestident on these samples beang submuted begged to mention to the meening the circumatance that the soctety was midebted for these sumples to the secretary who had obtamed them from the Axsm Comping as one of the sharetiolders whereas the soctety who had made an apphcation for a supply tors months ago bad not recelved a particle although he understood that some was coming He thought in future, whenever the society had anv application of this sort agan to make it had better go direct to government, inteead of applyag indsfectly through cosnmutees

    A harge bale of acelimated Upland Georgia Cotton-presented by Colonel \$inner
    Three samples of indigenous cation from Jalown in Bundelund-presented by Captain Showers

    Specimens of two kunds of gum, one known by the people of the jungles as the piasal or bijes-

[^9]:    - Terminals Bulitica, Rosb W H S

[^10]:    - Trans Agri Hort Soc iv 132
    $\dagger$ Buchanans "Mysore," 195

[^11]:    
    
    
    
     as dear

[^12]:    * Mr Ifughes, who has cultuvated successfully the Bourbon cotion near Tannvelss sass the plant will hust a great number of years without falling off in productiveness, if properly twanaged

[^13]:    * 'Kushur A singular calcareous concretion stratified, and in lmmillated masses of all smes, containing from fily to elghty per cent of carbonate of lime some maghesin iron, oud alitaina unterspersid sometines in large quantities througlout extensive tracts of the allurial and secondary formatom of Inda the analysis of some average samplea gave me from sesenty to filly per cont of cabonate of lime some by Mr Janes Prinsep, gave from eghty four to nifty one per cent - Brans Agra Hovi boc, vol vi, nute to p 207

[^14]:    - Soe also atatisties of cotton, in the Report on the United States, which we prepared for Pathament

[^15]:    
    
    
    
    

[^16]:    - Statement of the distribution of 67,819 hands mato eight different brapehes or departments of cotton working, is given in a previous page of this officin Supplement

[^17]:    - Chicfly to Nork and South Ametice and the Y eal Indiod

[^18]:    Cbiefy to Nortio and South Anoer ca Went Inliep and France

[^19]:    - Procledags of Agri Lort Soc of India, March 1340 p $12 \quad \dagger$ Ibid p 13

[^20]:    1 It is enacted, that fiom the Ist of June next, such parts of Regulations IX and 8 1810 , Resuluthan $\lambda$ i 142 , and of any other regultious of the Benal presudency,

[^21]:    

[^22]:    - Agent to roful may

    10 Llajd

[^23]:    Rates if (chamstan th Bombry -On the sali of purchase of goods of nlf denomameons
    (rarcpt as uthder)
    pur cent 5
    Purchise of all hind with the proteds of goods cold and on wheli a commiston of five
    
    
    fte Je ir pore is e ol aq rum
    
    He che erpuration of trazare or bulbier cachest of one percent on recerpt of the presceds
    Incurmbleathe
    

[^24]:    "'The Patna steamer has again made one of her usual rapid yoyages to and from Mirzopore The upward woyage occuphed eleven days and a half and the downyard, excluding half a days detenton, five days The distance is estimated at 730 males Including wo davs and a half in wheli she was detroned she bas left Calcutta and returned to it in nimeteen days which is, we beheve, the shortest voyage ever made - $\boldsymbol{F}$ rend of Indua, August 12, 1847
    "The second steamer, named the Benares was despatched to India in parts, and put together there in the same manner as the Patna already described
    "She left Calcutra on her first voyage on the 4 th of March, 1847 when the river was at the lowest, and tooh the Soonderbunds route Fortunately, the capinn wis an expenenced Ganges nayigator The Benare, although a dav was lost qground, reached her destination, Muzapore, on the l 6 th of March, that is, in twelve days $\dagger$

    - Ertrat from the Friend of Indan December 1846 - 'The two trips which the Patna has now succeded in making bave servid completely to bansh the iden that its great length wonld provent its making progress through the corkscrew windings of the Soonderbends 17 bis vessel from the superior atrangement of tis cabins not less than trom its speed, appears to be a tavourue If we may yidge from the large batch of passengers who have just gone up in her Durng the thot and sultry months of the year, she is sure to have a prefercuce because of the excelient so tem of ventilation adopted through the vessel and whelt will send to keep down the therwomt ter bue or six degrees
    † From the "Enghashman" March 19 1847 -" The Benares left Calculta on the 4th unstant at

[^25]:    * "Freand of Indea" 17 ho of Febrary 1848 - 'T he Ganges Company's new boat the Maraoove knownas the 13g Boat the Great Fastern " whoch we noticed as having started on her first voyage reached Dinapore in cieven dass from Culcuta which tahing the senson of the year into consideration, the lowness of the water the frequency of samabanks aod the sgat of any re gular channel, she has done exceedingly well She passed through the mincate channels of the Soonderbunds benutifully, remonng all doubts and fean that were entertamed by maoy on this head before her starting The niver is worse in many parts this year than bes buen known for many years '

[^26]:    - The peronal extabhahment of a govemment steam-tag and cargo hat is as folloms t too captaint, two wates, first and second engtneers, one cierk, two seraings, tro tudals, eight secunvies, tweaty-four hascurs, one tindal of stokers, cught stohers, four cooks, two topazs; and costs, in-
     voyages Iper antiam, gives $345 /$. per voyuge.

[^27]:    A considerible amount of busmess is transacted according to measures and weights recognised by local usage, wheh art noticed elserphere according to the Prestdencies in which they prevail but the followinf having been declared standard throughout the Britush territones in findaa are bere angerted - $-\mathbf{S e c}$ also Calcutta, Madras and Bombay

    Conage - The stamard coin of Butish India is dhe Company's ruper, weughing 180 grams

[^28]:    * Roman Cathole chapels many of them large are far more mumerous than Protestant places of worship in Ceylon

[^29]:    - The fleshy part of the nut dried in the sun preparatory to crushing.

[^30]:    - A correspondent, who had vacated the sugar estates, Negombo, writes :- I I dever suw any thing in Java superior to the canes here, and not ohen any thing to equal them; I will stake my reputation as a angat-phnter, that the canes will last as long as any in any other part of the world.'

[^31]:    * It appoans that grapes of delicious favour ripen ta abubdance at yafon Alluding to widd antmals, the following appears 11 a recent Ceylon paper -"A verv proper wholeane war has been waged with the monarchs of the foreas by native huaters No less than 150 elephants were Intely killed in the dtatrict of thanng a repard of lus bing pasd for every elophapt destroyed. A large number of them were killed wiso in the district of Manara lately In the distrit of Patchelapally, the clephant tuaters are padd $3 /$ lus for every anmal governument paving las only and the rest contributed by the plantexs The mils of the elephants (mproof of the anmals having been actually killed) are sent to the Cutcherry at Jaffan, where they are cut anto preces
    and buried!"-Ceylon Herald. and buried!"-Ceylon Herald.

[^32]:    * Buche-demer called also tripang or sea cucumber, is a very pecular kind of sea-slug (Holotharron) whob after being gutted pressed daed in the sum and smoked, is rugarded by the Chinese as a luxury much in the same way in whin we zegard caviave It is carred to Chama from almost every islnnd of the Kastern Archipelago from Australa and of late from Maumius and Caylon The value veries according to the quality, from six up to fify dollats per pictul , and the natives alone, for the most part are judges of its worth The principal mportation trito Clima is by the junks and tho quantity is so considepable that the fishery of it espectally on the coast of New Holland, where it aluounds, might probably be entered into wish advantage by Luropeads
    $\dagger$ A strong coarse faibric used in matting bags or sacks

[^33]:    * Bunkal, a weight of two dollars, or 832 troy grains

