MERCIAL INTELLIGENCE DEPARTMENT INDIA

# AREA AND YIELD

OF CERTAIN

# PRINCIPAL CROPS IN INDIA

BICE	OILSEEDS
WHEAT	JUTE
COTTON	INDIGO

SUGARÇANE

FOR VARIOUS PERIODS FROM. 1898-99 TO 1912-13



CALCUTTA EINTENDENT (OVERNMENT PRINTING, INDIA 1918

Price Four Annas or Six Pence

Area and yield of certain principal crops in India. 1898/99-1912/12

### Commercial Intelligence Department India

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### AREA AND YIELD

#### OF CERTAIN

# PRINCIPAL CROPS IN INDIA

#### GENERAL NOTES

In the course of each year periodical estimates of the area and yield of certain crops are compiled from local returns and issued by the Commercial Intelligence Department.

The general practice is to issue a preliminary forecast, a second estimate, and a third (and final) estimate, fuller and more precise than the first two. The figures in these tables are abstracted from those appended to the final estimates and they show the area sown and the estimated yield of the crops.

The estimates state the area actually sown, whether the crop comes to maturity or not, but fields which have been sown with other crops, owing to the failure of the first sowings, are not entered.

The areas covered by the several crops in a mixed field are estimated in various ways in the different provinces, and the estimates are based on formulæ prescribed by the proyincial authorities.

The estimates are not generally made for the whole of India, and they are necessarily, in the most favourable circumstances, only approximations to the truth. The very complete agricultural records in most of the provinces in connection with the assessment of the land revenue render it possible in many cases to state with great exactness the area sown with each crop ; but an equally important factor in determining the outturn, namely, the average yield per acre, has to be estimated, and exactness can be obtained only by the most careful con-sideration of the classes of soil, the methods of cultivation, and the climatic conditions which depend mainly on the quantity and timeliness of the rainfall in every part of the reporting areas. The quantitative estimates are thus often imperfect and they have generally been too low. The attention recently paid to the estimates of the cotton and wheat crops showed that some of the estimates relating to past years were extremely defective, but measures have been taken, which appear already to have effected a substantial improvement. The revision of the estimates which was attempted has not, however, been entirely successful, for the reason that there are large unregistered movements of cotton across provincial boundaries by road, while the information from some of the Native States is defective and the internal consumption other than that in mills defies accurate computation. A conventional estimate of consumption outside mills has, however, been made in consultation with the Bombay Cotton Trade Association and included in the figures of net exports and consumption shown at the end of the table relating to cotton. In view of the carrying over of stocks from one year to another, it is interesting to calculate the averages on these figures. Estimates of area and production are now received from various areas which were formerly unreported; but the fact that the total estimated outturn has as a rule, fallen short of the total of net exports and consumption shows that there is still much room for improvement in the estimates of production. The years 1912-13 and 1906-07 furnish the only two instances in which the estimated outturn has exceeded the total of net exports and consumption.

Attention has also been paid to the improvement of the jute forecast, and the yield for past years, from 1898 to 1904, has been corrected by the statistics of exports and consumption, but the estimates of the area cultivated are based on data, which are still uncertain, although they have recently been improved. Next to those for cotton and jute, the estimates of acreage are most complete in respect of wheat. For the other crops, however, the estimates of area apply only to the specified regions where those crops are largely grown, and not to the whole of India. Thus the rice estimates relate only to Bengal, Bihar and Orissa, Assam, Lower Burma, Madras, and the United Provinces, and those for groundnut to Madras, Bombay, and Burma. Again, for the reporting territories the estimates are sometimes imperfect, for, with some exceptions, those tracts have been excluded, which have not been accurately surveyed or are held under privileged tenures, and hence do not possess the regular establishments maintained elsewhere for reporting the area placed under each crop. The most serious defect from this cause is in the figures for Madras, which is a large producer of rice, cottons, sesamum, and indigo, but which up to 1906-07 made forecasts only for the raiyatwari villages or about twothirds of the area of the British districts. The Feudatory States within provincial boundaries are also generally omitted from the forecasts of all the provinces except Bombay and Sind. But for these omissions and a certain element of uncertainty in regard to crops which are grown conjointly or interspersed in the same field, the estimates of area relating to the Punjab, the United Provinces, the Central Provinces and Berar, and Madras may be regarded as fairly exact. The statistics for the British districts of Bombay are also very correct, but in this publication they are combined with the more conjectural figures of the provincial Feudatory States in which a large propertion of the cotton, oilseeds, and wheat is grown. The statistics of area for Bengal and Bihar and Orissa which relate to nearly the whole of the cultivated portion of the province, omitting unimportant Feudatory States, are also conjectural since they consist of estimates which are founded on information of varying degrees of accuracy and which have been verified by cadastral survey in respect of only about 20 per cent for Bengal and 78 per cent for Bihar and Orissa.

The statistics for the States of Hyderabad and Mysore and the numerous States in the Central India and Rajputana Agencies rest on data similar to those of British India, and like them mostly refer to tracts in which there exists a reporting agency not equal in efficiency to that of the neighbouring British Provinces. Estimates are also included for some of the revenue-free lands held on privileged tenures.

#### PROVINCIAL NOTES

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Estimates are made for rice, cotton, and groundnut. The figures for area are obtained from the assessment rolls prepared by revenue

surveyors. The original information about the yield is obtained from township officers, inspectors of land records, and from the more important of the Land Revenue subordinate officers. In this way the estimate of each district is based on the information furnished by some thirty or more persons.

The figures for both area and yield are tabulated by the Superintendent of Land Records and checked by the Deputy Commissioner. The Commissioner of Settlements and Land Records compares the estimated yield with a standard representing the normal yield

Tand Records compares the estimated yield with a standard representing the horman yield which was fixed after an extensive series of experimental crop cuttings by settlement officers. Estimates are made for the sixteen chief rice-producing districts of Lower Burma, namely, Akyab, Kyaukpyu, Insein, Hanthawaddy (Syriam), Pegn, Tharrawaddy, Prome, Maubin, Pyapôn, Bassein, Henzada, Myaungmya, Amherst, Tavoy, Toungoo, and Thatôn. The standard is 32 baskets (of 45lb each)= 1,556lb of unbusked rice to the acre.

Until 1902-03 the estimates for cotton related to the five principal cotton-growing districts, namely, Sagaing, Lower Chindwin, Meiktila, Myingyan, and Thayetmyo. Since that year all the cotton-producing districts have been reported on. From 1909-10, however, regular reports have been furnished by the eleven districts in which more than a thousand acres are under cotton, while a rough estimate of the production in other districts has been made and included. Except in districts where a settlement officer has conducted experiments

in crop cutting, it is not possible to estimate accurately the average yield per acre. Estimates were made for the first time in 1908-09. Reports are furnished only by the six principal groundnut growing districts, and a rough estimate is made of the outturn in other districts.

Estimates are framed for rice, cotton, oilseeds, jute, and sugarcane. The information is received from district officers, who in their turn obtain figures from mandals in the case of the temporarily-settled areas and from zamindars in the case of the permanently-settled portion of Goalpara. These figures are said to be checked by sub-divisional and district officers, but, except where the district or the sub-divisional officer is himself able to do it, there is no valid check at all, and sometimes figures returned by district officers are more or less inaccurate and inconsistent

The estimates for rice relate to all districts (except the Naga Hills). The crop includes the *bhadoi*,  $a\acute{us}$ , or autumn rice, and the *dman*, *bao*, or winter rice. The yield of a normal crop is taken to be 6 cwts per acre for autumn rice and 9 cwts per acre for winter rice.

Cotton is grown in the Garo, the Khasi and Jaintia and the Lushai Hills, in Cachar, Sylhet, Goalpara, Nowgong, and Sibsagar. It is also believed to be grown in the Naga Hills, but it is not possible to make any estimate of the crop there. The crop is sown in March and April. The normal rate of outturn is taken to be 1531b of cleaned cotton per acre. The oilseeds are linseed, rape and mustard, and sesamum. They are generally grown in all the plains districts of Assam. Sesamum is grown also in the Garo, Khasi and Jaintiá and the Luchai Hills.

and the Lushai Hills. The average yield of rape and mustard has been taken to be 41 cwt per scre and that of linseed and sesamum to be 4 cwt per acre.

The estimates for jute relate to all the districts of the province except the Naga Hills, the Khasi and Jaintiá Hills, and the Lushai Hills. A general rate of 1,200lb (= 3 bales) per acre for a normal crop is taken to estimate the yield of the crop. The estimates for sugarcane relate to all the plains districts. The average yield of raw

sugar (gur) is taken to be 17 cwts per acre.

Estimates are made for rice, wheat, cotton, oilseeds, jute, indigo, and sugarcane. In the absence of any Revenue Agency the figures are based mainly on rough approximate estimates made by district officers, and are more or less conjectural. The district officers obtain information from the sub-divisional officers through the agency of the police. The system of making crop cuttings, as in other provinces, over a series of areas and seasons for the assert simpler of standards of mind of making from the last sighter areas the ascer simment of standards of yield has been in force in Bengal for the last eighteen years, but sufficiently trustworthy figures of yield have not yet been obtained from these cuttings to enable Government to accept them as standards.

(Rice)

(Cotton)

(Groundnut)

1 29am

(Rice)

(Cotton)

(Oilseeds)

(Jute)

(Sugarcane)

Bengal

The rice crop includes the *bhadoi*, aus or autumn rice (sown in May and mostly reaped by the middle of September), the *aman* or winter rice (sown in May and June, transplanted by the middle of September, and reaped in November and December), and the boro or summer in August and September, and reaped in November and reaped in April to June). The yield rice (sown towards the close of the cold weather and reaped in April to June). of a normal or 100 per cent crop is taken to be 12 maunds per acre for winter rice and 10 maunds per acre for autumn and 134 maunds for summer rice (the maund in each case being equal to 8231b). These rates have been assumed to represent the average yield of cleaned rice.

Wheat is grown in all the districts of the Rajshahi, Burdwan, and Presidency Divisions

 w near is grown in all the districts of the hajshahl, burdwah, and Presidency Divisions (excepting the districts of Bogra, Howrah, 24-Parganas and Khulna) and in the district of Faridpur. The average yield of the crop has been determined to be 101 maunds per acre. Two varieties of cotton are grown in the province—early and late. The early crop is grown in the State of Hill Tippera and in the districts of Chittagong Hill Tracts, Bankura and Midnapore. The late crop is grown only in the last two districts. The early crop is generally sown before the rains and the late crop worth before and partly after the rains. generally sown before the rains and the late crop partly before and partly after the rains. Separate rate of outturn for the early and the late crops have been adopted for each district.

The oilseeds are linseed, rape and mustard, and sesamum. The first three are grown in all districts (excepting Darjeeling, Jalpaiguri, Rangpur, and Chittagong Hill Tracts, in the case of linseed), and are sown generally in October and reaped early in winter. The average yield is assumed to be 6 maunds (4941b) per acre.

Sesamum is grown in all districts except Darjeeling; it is sown generally in July-September and reaped early in winter. An early variety is sown in the cold weather and

reaped in June-July. The average yield is assumed to be 44 maunds (3501b) per acre. Jute is grown in all the districts, excepting Birbhum, Bankura, and Chittagong Hill Tracts. A general rate of 1,2711b, or 31 bales, is assumed to represent the average production per acre for every jute-growing district in the province. The only district in] which indigo is still cultivated is Nadia. The average yield is

(Indigo) assumed to be 1215 per acre. (Sugarcane)

The report on sugarcane relates to all the districts of the province; it is sown during the winter season and harvested after a year. The average yield of raw sugar (gur) is estimated at 351 maunds (2,9211b) per acre.

Estimates are made for rice, wheat, cotton, oilseed, jute, indigo, and sugarcane. In the absence of any Revenue Agency the figures are based mainly on rough approximate estimates made by district officers, and are more or less conjectural. The district officers obtain information from the sub-divisional officers through the agency of the police. The system of making crop cuttings, as in other provinces, over a series of areas and seasons for the ascertainment of standards of yield has been in force in the districts of this province for the last eighteen years, but sufficiently trustworthy figures of yield have not yet been obtained from these cuttings to enable Government to accept them as standards.

The rice crop includes the bhadoi, aus or autumn rice (sown in May and mostly reaped by the middle of September), the *áman* or winter rice (sown in May and June, transplanted in August and September, and reaped in November and December), and the *boro* or summer rice (sown towards the close of the cold weather and reaped in April to June). The yield of a normal or 100 per cent crop is taken to be 15 maunds per acre for winter rice, and 10 maunds per acre for autumn and summer rice (the maund in each case being equal to 823 lb). These rates have been assumed to represent the average yield of cleaned rice. Wheat is grown in all the districts, excepting Balasore and Puri. The crop is chiefly

cultivated in Bihar, where it covers about 96 per cent of the total area under the crop in Bihar and Orissa. The average yield has been fixed provisionally at 12 maunds or 984 lb per acre for the Bihar districts, 104 maunds or 861 lb per acre for the Orissa districts, and 451 lb per acre for the districts of the Chota Nagpur Division.

Two varieties of cotton are grown in the province—early and late. The early crop, which is sown before the monsoon rains commence and harvested in winter, is grown in the districts of Saran, Monghyr, Bhágalpur, the Sonthal Parganas, and in the Chota Nagpur and Orissa Divisions, and also to a limited extent in Shahabad, Champaran, and Darbhæiga. The late crop, which is usually sown at the close of the rainy season and harvested in May and June, is grown in the districts of Manbhum, Singhbhum, and in the Patna, Tirhut, Bhágalpur, and Orissa Divisions, excepting the districts of Gaya, Purnea, the Sonthal Parganas, and Sambalpur. Separate rates of standard outturn for the early and the late orops

have been adopted for each district; the rates vary from 70 to 280 lb per acre. The oilseeds are linseed, rape and mustard, and sesamum. The first three are grown in

all districts (excepting Angul, in the case of linseed), and are sown generally in October and reaped early in winter. The average yield is assumed to be 6 maunds (494lb) per acre. Sesamum is grown in all districts; it is sown generally in October and reaped early in winter. An early variety is sown in the cold weather and reaped in May-August. The average yield is assumed to be 41 maunds (350 lb) per acre. The estimate of the inter and reaped in may-August.

The estimate of the jute crop covers seven districts in which jute is grown, namely, Champaran, Muzaffarpur, Bhágalpur, Purnes, the Sonthal Parganas, Cuttack, and Balasore. A general rate of 1,2001b, or three bales, is assumed to represent the average production per acre for every jute-growing district in the province.

The report on indigo relates to eight districts in which the crop is still grown, namely, four districts of the Tirhut Division and Shahabad, Monghyr, Bhagálpur and Purnez. The (Indigo) average yield is assumed to be 20 lb per acre.

(Wheat)

(Rice)

(Cotton)

(Oilseeds)

Bihar and Orista

(Jut9)

(Rice)

(Wheat)

(Cotton)

(Oilseed)

(Jute)

p 2

(Sugarcane)

The report on sugarcane relates to all the districts of the province; it is sown during the winter season and harvested after a year. The average yield of raw sugar (gur) is estimated at 22 cwts per acre. . ...

United	Estimates are made for wheat, cotton, linseed, rapeseed, sesamum, indigo, sugarcane
Provinces	and winter rice. The area is taken from the crop statements based on field-to-field inspections, which are furnished by patwaris and checked by higher revenue officers. The estimates of the standard yield are based on the results ascertained from crop-cutting experiments conducted in selected districts. The standards, which are separate for irrigated and unirrigated crops, are revised every five years on a consideration of the results of crop experiments, and are applied to the condition of the crops reported by district officers and selected land-holders whose number
	exceeds five hundred.
(Wheat)	The estimates of the wheat crop relate to all the districts of the province except Almora and Garhwal. The rates of standard outturn are different in the various districts, the average for the province being irrigated 1,250 m and unirrigated 850 m.
(Cottop)	The estimates of the cotton crop relate to all the districts of the province where cotton is grown to any considerable extent. The rates of standard outturn are different in the various districts, the average for the province being irrigated 2201b and unirrigated 1301b. The Native State of Rampur, which is the only cotton-growing State in the prevince, is included in the estimates for that crop from 1905-06. The estimates of both area and yield are based on the figures furnished by the six tahsils of the State.
(Oilseeds)'	The estimates for all oilseeds show separately the mixed crop, that is, crop grown in the same field with other crops, which is gathered in small quantities over a wide area mostly for home consumption. The estimates of the mixed crop are, however, highly conjectural. The average yield of the unmixed crop is estimated at 500lb per acre for linseed, 600lb for rapeseed, and 280lb for sesamum.
(Indigo)	In estimating the yield of indigo (dye), it is assumed that one-tenth of the total area is annually set aside for seed, and that one-fourth of a factory maund (about 751b) of dye represents the full average yield in an average year.
(Sugarcane)	The estimates for sugarcane relate to all the districts of the province except Jhansi, Jalaun, Bánda, Almora, Garhwal and Bahraich. The crop is planted in February and March and reaped in December and January, and is wholly an irrigated crop. Separate rates of normal outturn have been adopted for the different districts varying between 1,500lb and
(Winter rice)	8,20015. Estimates of winter rice were made for the first time in 1912-13. The rates of standard outturn are different in various districts, the average for the province being in the case of rice irrigated 1,1001h and unirrigated 8501h.
Punjab	Estimates are prepared for wheat, cotton, rapeseed, sesamum, indigo, and sugarcane. The figures of area are based on actual measurements by the revenue staff. Estimates:
	of yield are recorded by Collectors after personal enquiry from tabsildars and leading
(Wheat)	agriculturists. The total number of agriculturists consulted by the Collectors and tabsildars must amount to several thousands. The estimates of the wheat crop relate to all the districts of the province, and include the following Native States from 1907-08 :Patiala, Kapurthala, Nabha, Jind, Bahawalpur, Faridkot, Maler Kotla, Mandi, and Suket. Separate rates of normal outturn have been adopted for the different districts varying between 500lb and 1,180lb for irrigated and between
(Wheat) (Cotton)	agriculturists. The total number of agriculturists consulted by the Collectors and tabsildars must amount to several thousands. The estimates of the wheat crop relate to all the districts of the province, and include the following Native States from 1907-08 :Patiala, Kapurthala, Nabha, Jind, Bahawalpur, Faridkot, Maler Kotla, Mandi, and Suket. Separate rates of normal outturn have been adopted for the different districts varying between 500lb and 1,180lb for irrigated and between 580lb and 720lb for unirrigated wheat. The estimates of the cotton crop relate to all the districts except Simla, and include the following Native States from 1904-05 :Patiala, Kapurthala, Bahawalpur, Nabha, and Jind. The rates of normal outturn vary between 48lb and 192lb for irrigated and between 41lb and
	agriculturists. The total number of agriculturists consulted by the Collectors and tabsildars must amount to several thousands. The estimates of the wheat crop relate to all the districts of the province, and include the following Native States from 1907-08 :Patiala, Kapurthala, Nabha, Jind, Bahawalpur, Faridkot, Maler Kotla, Mandi, and Suket. Separate rates of normal outturn have been adopted for the different districts varying between 500lb and 1,180lb for irrigated and between 380lb and 720lb for unirrigated wheat. The estimates of the cotton crop relate to all the districts except Simla, and include the following Native States from 1904-05 :Patiala, Kapurthala, Bahawalpur, Nabha, and Jind. The rates of normal outturn vary between 48lb and 192lb for irrigated and between 4llb and 182lb for unirrigated cotton. The estimates for rapeseed relate to all but four districts, the exceptions being Simla, Jalandhar, Kangra, and Gurdaspur. The estimates for sesamum relate to twenty-two districts : Hissar, Gurgaon, Karnál,
(Cotton)	agriculturists. The total number of agriculturists consulted by the Collectors and tabsildars must amount to several thousands. The estimates of the wheat crop relate to all the districts of the province, and include the following Native States from 1907-08 :Patiala, Kapurthala, Nabha, Jind, Bahawalpur, Faridkot, Maler Kotla, Mandi, and Suket. Separate rates of normal outturn have been adopted for the different districts varying between 500lb and 1,180lb for irrigated and between 380lb and 720lb for unirrigated wheat. The estimates of the cotton crop relate to all the districts except Simla, and include the following Native States from 1904-05 :Patiala, Kapurthala, Bahawalpur, Nabha, and Jind. The rates of normal outturn vary between 48lb and 192lb for irrigated and between 4llb and 182lb for unirrigated cotton. The estimates for rapeseed relate to all but four districts, the exceptions being Simla, Jalandhar, Kangra, and Gurdaspur. The estimates for sesamum relate to twenty-two districts : Hissar, Gurgaon, Karnál, Ambala, Ferozpur, Kángra, Hoshiarpur, Jalandhar, Multan, Jhang, Montgomery, Lahore, Amritsar, Gurdáspur, Siálkot, Gujrát, Gujránwála, Ráwalpindi, Attock, Mianwali, Dera Ghazi Khan, and Muzaffargarh. Until 1904-05 the estimates for indigo related to seven districts : Hissar, Rohtak,
(Cotton) (Oïlseeds)	agriculturists. The total number of agriculturists conculted by the Collectors and tabsildars must amount to several thousands. The estimates of the wheat crop relate to all the districts of the province, and include the following Native States from 1907-08 :Patiala, Kapurthala, Nabha, Jind, Bahawalpur, Faridkot, Maler Kotla, Mandi, and Suket. Separate rates of normal outturn have been adopted for the different districts varying between 500lb and 1,180lb for irrigated and between 380lb and 720lb for unirrigated wheat. The estimates of the cotton crop relate to all the districts except Simla, and include the following Native States from 1904-05 :Patiala, Kapurthala, Bahawalpur, Nabha, and Jind. The rates of normal outturn vary between 48lb and 192lb for irrigated and between 41lb and 132lb for unirrigated cotton. The estimates for rapesced relate to all but four districts, the exceptions being Simla, Jalandhar, Kangra, and Gurdaspur. The estimates for sesamum relate to twenty-two districts: Hissar, Gurgaon, Karnál, Ambala, Ferozpur, Kángra, Hoshiarpur, Jalandhar, Multan, Jhang, Montgomery, Lahore, Amritsar, Gurdáspur, Siálkot, Gujrát, Gujránwála, Ráwalpindi, Attock, Mianwali, Dera Ghazi Khan, and Muzaffargarh. Until 1904-05 the estimates for indigo related to seven districts : Hissar, Rohtak, Gurgaon, Karnál, Multan, Dera Ghazi Khan, and Muzaffargarh ; in two of these (Hissar and Re_tak) the crop was grown only for seed, and in the remaining five partly for seed and partly for dye. From that year the estimates relate to four districts only : Rohtak, Multan, Dera Ghazi Khan, and Muzaffargarh.

Estimates are prepared for wheat, cotton, rapeseed, and sugarcane. Until 1908-04 an N.-W. Frontier estimate was made for the sesamum crop also, but as the area never exceeded 10,000 acres it has been discontinued.

The figures of area are based on actual measurements made by the patwaris in their fieldto-field inspection in each harvest. They are further checked by higher revenue officers. The estimates of the standard yield are based principally on data derived from a large

number of tests made during the progress of settlement operations in which crops were cut and weighed. They were framed for each assessment circle which is the unit of area, and separately for lands irrigated by canals, by wells, for alluvial (sailab) lands, and for lands entirely dependent on rain. The standards are applied to the estimates received from the district officers who frame their estimates in consultation with local agriculturists. The exact number of agriculturists consulted by the district officers is not available, but it must amount to several hundreds.

The estimates for wheat relate to all the districts of the province, and include the Tochi (Wheat) Agency from 1904-05, and the Kurram Agency from 1906-07. For irrigated wheat the rate of normal outturn is taken to be 7411b for four districts and 8231b for three districts; the rates for unirrigated wheat vary between 32915 and 53515.

The estimates of the cotton crop include all the districts of the province.

The estimates for rapeseed up to 1905-06 relate to all districts except Kohat. From 1906-07 Kohat has been included.

The sugarcane crop is sown in March and April. The estimate relates to three selected (Sugarcane) districts, namely, Hazara, Peshawar, and Bannu.

Estimates are framed for wheat, cotton, linseed, rapeseed, sesamum, groundnut, and Bombay and Sind sugarcane.

The estimates include British districts as well as Native States.

In the British districts of the Presidency the area under different crops is ascertained in the first instance by village officers and recorded in village returns which are checked by circle inspectors and other revenue officers, and compiled by the former for their circle, and then for the taluka. The taluka figures are totalled up for each district in the Director's office. For Sind this work is done by local officers, and the Director receives district-by-district figures. The information received is for villages for which regular statistics are available, the proportion of reporting area being 91.4 per cent in the Presidency proper and 99.6 per cent in Sind. From 1909-10, however, estimates for the non-reporting areas have been made so far as possible and included in the table. In the case of Native States the acreage is estimated on the best local data available. The approximate numerical strength of the report-ing agency is 175 in the Presidency proper, 57 in Sind, and 33 in the Native States. No standard of yield has yet been adopted. Local estimates are converted to quantitative

figures on the basis of a formula showing the average yield of crops which has been adopted provisionally. This formula is now being revised quinquennially, the revision being based on the ascertainment of actual yield in different parts of the Presidency by careful local enquiry by officers of the Provincial Agricultural Department who are tabulating the results and com-paring them for the purpose. The unit of area in the formula is the district and dry and irrigated crops are separately dealt with.

Each year's estimate is prepared by the mamlatdars (or mahalkaris where the taluk is sub-divided) from notes which they make and from reports from village accountants and circle inspectors. The estimate is sent direct to the Director of Agriculture, who, in the light of the general prospects of the season, makes the quantitative calculations. A copy of the estimate is at the same time sent to the Collector through the sub-divisional officer, who sends his remarks, if any, to the Collector, forwarding a copy of the same to the Director. The Collec-tor on receipt of these remarks forwards to the Director his opinion as regards the general condition of the whole district.

For Sind there are no formulæ, and all the necessary information is obtained from the District Collectors in the form of estimates on the basis of twelve annas for a normal crop, together with quantitative equivalents gathered from general experience.

For the Native States estimates are obtained, and the formulæ for adjoining British districts is applied.

The estimates for wheat include the British districts and Native States in Gujarát, (Wheat) Deccan, Karnátak, and Sind.

The figures for cotton relate to the whole area under that crop in the Bombay Presidency (including Sind), and include both the early crop of the Deccan sown in July to August (Cotton) and harvested in December, and the late crop of Gujarát, Karnátak, and Sind sown in September to October and reaped in February to March.

The estimates for linseed include the British districts and the Native States in Gujarát, (Oilseeds) Deccan, and Karnátak.

Those for rapeseed include the British districts and the Native States in Gujarát and Sind.

The estimates for sesamum include the British districts and the Native States in Gujarát, Deccan, Karnátak, Konkan (excluding Kanara), and Sind.

The estimates for groundnut include the British districts and Native States in the Deccan (Groundnut) and the Belgaum district in Karnátak.

(Cutton)

(Oilseeds)

Central Provinces

The estimates for sugarcane include the British districts and Native States in Gujarát (except Panch Mahals and Broach), Deccan, Karnátak, and Konkan (except Kolaba and Ratuagiri).

Estimates are framed for wheat, cotton, linseed, and sesamum.

As regards acreage, the figures for cotton and sesamum are estimates based on reports furnished by the local officials of the Land Records staff. The figures for wheat and linseed represent the actual areas sown with those crops as disclosed by the field-to-field inspection by patwaris. The reporting agency consists of 217 revenue inspectors with, on an average, 24 patwaris working under each inspector. Each tahsil has usually 4 revenue inspectors. Standards of outturn were framed for each crop from the results of crop-cutting experi-

ments on selected fields under the supervision of responsible and selected officials during the years 1884-85 to 1887-88. For wheat the standard was framed separately for first and second class lands, and the proportion in which the area of each class was cropped was taken into class lands, and the proportion in which the area of each class was cropped was taken into account; irrigation also was taken into account, but in a less degree, as it is of importance only in the case of the rice crop for which no estimates are made. These standards have been revised from time to time on the basis of the results of crop-cutting experiments since made, the last revision having been made in 1912. The yield expressed by the people in terms of annas in the rupee is converted into percentages, 18.3 annas, or a normal crop, being taken to be equal to 100. A full crop or 16 annas is denoted by 120, and a bumper crop or 20 annas by 150. All deductions based on the standards are made by the Director of Land Records and Settlements from the year's figures furnished by district officers, who are supposed to bear in mind the standards when estimating the yield of the season.

Until 1897-98 the figures did not take into account the zamindari areas in Raipur, Bilåspur, and Drug, for which no statistics were available, the survey being in progress. Since that year the surveyed portions of these zamindari areas have been included.

The estimates of the wheat crop relate to all the districts of the province, and include the Native States of Khairagarh and Nandgaon from 1907-08. The standard rates of outturn vary between 450lb and 660lb per acre.

The area sown with wheat as a mixed crop with gram is reduced for the purpose of excluding gram by 15 per cent in the districts of the Nagpur and Chattisgarh Divisions, and by from 25 to 40 per cent in the rest of the province.

The cotton crop is grown in all the districts of the province. The rate of standard outturn is taken to be 9515 per acre in one district, 90 in three, 80 in one, 70 in three, 60 in one, 55 in four, and 45 in five.

The area on which cotton is grown mixed with other crops is reduced by deductions varying in the different districts from 7 to 16 per cent.

The estimates for oilseeds (linseed and sesamum) also relate to all the districts of the province. The standards vary between 1801b and 3001b in the case of linseed and between 1501b and 3001b in the case of sesamum.

In the case of linseed sown with gram the area is reduced by 20 per cent for the purpose of excluding gram.

Estimates are framed for wheat, cotton, linseed, and sesamum.

The system by which areas are returned is similar to that in the Central Provinces.

No standard yield was fixed until 1903-04 and there was no specific system for estimating the yield of the harvests for the purposes of the forecasts. The estimates from 1903-04 have been calculated on the lines followed in the Central Provinces. The standards of normal outturn adopted in 1903-04 were revised in 1908 and again in 1912. The standards are 58015 per acre for wheat, 871b for cotton, 3301b for linseed, and 3001b for sesamum.

Madras

(Rice)

(Cotton)

(Sesamum)

Estimates are framed for rice, cotton, sesamum, groundnut, indigo, sugarcane, and castor seed. [Figures for castor seed are not included in these tables.]

The estimates of the rate of yield are those reported by tabsildars or deputy tabsildars, which are scrutinized and tabulated by the Director of Agriculture.

For rice the standard rates are based on the results of crop-cutting experiments either conducted by district officers or made in Government Agricultural Farms.

For cotton the standard rates have been determined on a full consideration of all available data. The rates for unirrigated cotton are 901b per acre for Tinnevellies, 751b for Cocanadas, 551b for Saleme, and 501b for Northerns, Westerns, and others ; the rates for irrigated cotton are 150th per acre for the variety grown in the Bellary district and 400th in the case of South Arcot, Salem, Coimbatore, Trichinopoly, Tanjore, Madura, Ramnad, and Tinnevelly districts. The sowings of cotton continue from July to October in the Central and Deccan districts, and in the southern districts until the end of December. The harvesting of the group having in February and continue with Luly on August the crop begins in February and continues until July or August.

For sesamum the standard of yield has been fixed with reference to the latest orop-cutting experiments at 3361b per acre for the Vizagapatam, Godavari, Tanjore, and Trichinopoly districts, 2241b for Malabar and the Deccan districts and 2801b for the remaining districts.

(Wheat)

(Cotton)

(Oilseeds)

The groundnut crop is chiefly grown in Anantapur, North Arcot, South Arcot, Taujore, Cuddapah and Salem, more than one-third of the area being cultivated in South Arcot. The rate of outturn has been fixed at 10 cwts of nuts in shell per acre. (Groundnut)

The estimates for indigo comprise the districts in which it is mainly grown: Guntur, Nellore, Karnul, Cuddapah, Chingleput, South Arcot, and Salem. The standard of yield has been taken, on the best information on record, at 35lb of dye to the acre.

The sugarcane crop is grown chiefly in South Arcot, Godavari, Bellary, and Coimbatore. The standard of yield has been fixed at 45 cwts of manufactured jaggery (gur) to the acre.

Estimates are made for cotton only. As regards area the information is taken from the field book (khasra girdawari), prepared by the patwaris in November each year and checked by the higher revenue officers. The estimates of yield are based on the average of the results obtained by erop-cutting experiments conducted each year. The Ajmer-Merwara district is divided into 12 girdawars' circles and in each circle the girdawar carries out crop experi-ments every harvest. The Revenue Extra Assistant Commissioner does the same in the Ajmer tahsil, and the tahsildars of Beawar and Todgarh in the two tahsils in Merwara. At each harvest a piece of land under a particular crop is selected and its yield weighed. The results of all the experiments are sent to the Revenue Extra Assistant Commissioner, in whose office a combined return is prepared and included in the annual report. The figures include khalsa as well as jagir areas. Estimates are made for cotton only. As regards area the information is taken from the Ajmer-Merwara

The figures include khalsa as well as jagir areas.

Estimates are framed for wheat and cotton. They are generally defective in consequence Rajputana and of the absence of figures for unsurveyed areas and privileged tenures in many cases. Central India Central India

Estimates are framed for wheat, cotton, and oilseeds. Until 1902-03 the figures excluded Hyderabad jagir and such other revenue-free lands or privileged tenures; since then statistics for these areas have been obtained as far as possible and included in the statement.

Estimates are framed for wheat and cotton.

As regards area the information is based on the entry made by the Shanbog (village accountant) in his crop inspection book, which is checked by the Shekdar (taluk officer) and the Amildar (collector). The outturn is also noted by the Shanbog in his book in terms of annas (16 annas being taken for a normal or 100 per cent crop) and this is converted into tons in the case of wheat and bales in the case of cotton by reference to the standard normal outturn per acre fixed for each taluk. The figures are finally sorutinised and consolidated in the Revenue Commissioner's Office.

No information is at present available for inam villages in certain districts, but instructions have been issued to obtain this information so far as possible.

7.

Муноте

(Indigo)

(Sugarcane)

Tables of Area and Yield

Ĉ	Ø	T	Т	0	N
•••	v			Ψ.	•••

The Provinces and States dealt with in this table practically contain [The figures of outturn represent cleaned cotton, i.e., cotton with the seeds extracted]

						Bombay (including Native States) (a)			Provinces erar (c)	Hyderabad	State (d)	Madras (e)	
						acrea	bales of 400 lbs	acres	bales of 400 ibs	acres	bales of 400 lbs	acres	bales of 400 lbs
1898-99	•	•				5,098,145	1,232,861	\$,144,828	782,391	1,738,879	222,303	1,321,700	127,670
1899-190			r			3,095,206	(5)81,647	2,696,438	221,743	1,292,329	91,975	1,382,700	101,440
1900-01						4,240,140	759,096	3,526,463	999,920	1,698,836	288,570	1,373,300	118,320
1901-02			•		•	4,394,796	567,386	8,670,543	880,081	1,689,139	800,801	1,351,200	180,130
1902-03			•			4,786,657	943,327	8,902,066	970,866	2,359,130	280,267	1,580,900	167,109
1903-04		•	•	٠	. •	5,702,000	1,059,000	4,144,000	760,000	2,661,000	<b>2</b> 75 <b>,0</b> 00	1,665,000	175,00
1904-05		•				<b>5,</b> 955,000	796,000	4,553,000	1,229,000	2,731,000	<b>330,0</b> 00	1,755,000	132,000
1905-06			•	•	•	8,665,000	1,198,000	4,849,000	818,000	2,537,000	303,000	1,597,000	145,000
1906-07		•	•			7,383,000	1,762,000	4,678,000	881,000	3,480,000	449,000	1,703,000	157,00
1907-08		۰.	•		•	7,101,000	1,039,000	4,432,000	595,000	8,100,000	203,000	1,855,000	198,00
1908-09		•				6,241,000	1,283,000	4,176,000	766,000	2,902,000	307,000	1,576,000	162,000
1909-10		•		٠		6,46+,000	1,661,000	4,167,000	1,070,000	3,401,000	431,000	1,569,000	180,000
1910-11		•		•		7,334,000	1,450,000	4,487,000	629,000	3,562,000	293,000	1,873,000	235,000
1911-12			•	•	•	5,786,000	695,000	4,648,000	913,000	8,224,000	300 <b>,0</b> 00	2,878,000	335,000
1912-13		•	•			6,694,000	1,498,000	4,523,000	910,000	2,888,000	300 <b>,0</b> 00	2,426,000	317,000

					Bu	ma	Rajputar	a States	Mysore	State .		i-West tier (g)	Bihar a	nd Orissa	
					actés	bales of 400 lbs	acres	bales of 400 lbs	acres	bales of 400 lbs	acres	bales of 400 lbs	-acres	bales of 400 lbs	2-
1898-99		•	٠		167,821	( <i>h</i> )	478,604	117,748	h h		1		<u>ר</u> ו		
1899-1900	•	•	•	•	148,563	32,900	325,033	44,161			}	-			
1900-01	•	•	•	•	141,718	.21,077	369,384	104,390	(ħ)	(ħ)	]	}			l
1901-02	•	٠	•	•	130,610	13,125	281,934	87,858			80,400	8,759			
1902-03	•	•	•	•	148,867	21,114	456,503	164,142	]		27,400	7,420			
1903-04	•	"	٠	•	165,000	27,000	395,000	113,000	70,000	13,000	\$5,900	8,424			
1904-05	•		٠	•	189,000	39,000	469,000	186,000	71,000	5,000	49,000	10,000	(i)	(i)	
1905-06	٠	•	٠	•	183,000	35,000	291,000	61,060	76,000	5,000	59,000	13,000			
1906-07	•	٠	٠	•	157,000	86,000	428,000	201,000	89,000	10,000	61,000	13,000			
1907-08	•	•	•	•	195,000	29,000	498,000	91,000	84,000	6,000	48,000	9,000			
1908-09	•	٠	٠	•	204,000	41,000	389,000	80,000	65,000	8,000	54.000	12,000			-
1909-10	•	•	٠	•	198,000	32,000	464,000	148,000	81,000	6,000	82,000	7,000			
1910-11	•	٠	•	•	167,000	28,000	465,000	143,000	101,000	10,000	<b>33,0</b> 00	8,000			
1911-12	•	•		•	186,000	32,000	263,000	78,000	101,000	17,000	56,000	12,000	88,000	19,000	
1912-13		•	•		227,000	45,000	39 <b>3,0</b> 00	125,000	154,000	19,000	55,000	13,000	89,000	19,000	

(a) Includes the State of Baroda
(b) The estimate for the year is too low, as the mill consumption for the year ending the 30th June and the net exports for the year ending the 30th September were 605,000 bales. For both the preceding and the following years the trade figures are however lowor than the estimates, so that for the 3 years 1898-1901 the production would seem to be understated only by 109,000 bales. In this calculation the excess of the exports from the districts of the North and East Deccan over their reported production, which averages 208,000 bales in the twolve years 1891-1903, has been taken to represent imports by road into the Presidency from the neighbouring Native States
(c) The figures of production for Berar for the years previous to 1903-04 and those for the Central Provinces for the years ending the 30th Superstate of the year ending the 30th Superstate of the year ending the 30th September, as the provincial estimates of the outturn were extremely defective

(d) The figures for the years previous to 1902-03 accolue jagir areas
(e) The figures and Native States have also been included
(f) Includes Native States from 1904-05.

Pun	jab (f)	-	United	Prov	rinces (f)	Central ]	India States	Sind (inclue Sta	ling Native tes)			<u></u>
aores	bales 400 1		acres		bales of 400 lbs	acres	bales of 400 lbs	acres	bales of 400 lbs			
988,400	138,9	26	983,38	5	261,304	471,409	46,800	39,712	39,712	1898-99		
1,215,40	205,	203	996,67	8	227,787	479,565	23,100	92,069	20,507	1899-1900		
1,080,200	219,0	846	1,048,12	6	294,169	542,673	63,900	84,560	43,031	1900-01		
1,026,80	0 213,4	166	1,153,8%	0	968,698	529,094	72,200	129,409	72,553	1901-02		
1,193,60	. 229,	005	1,239,1	n	327,728	591,006	115,878	195,486	110,808	1902-03		·
1,205,10	261,	241	841,00	0	184,000	772,000	125,000	209,000	115,000	190 <b>3-0</b> 4		
1,698,00	0 408,0	<b>. 000</b>	1 <b>,201,</b> 00	0	\$68,000	846,000	136,000	221,000	97,000	1904-05		
2,020,00	0 192,	000	1,872,00	0	394,000	979,000	130,000	283,000	84,000	1905-06		
1,413,00	0 357,0	000	1,489,00	0	639,000	1,182,000	222,000	250,000	155,000	1906-07		
1,474,00	0 856,	000	1,461,00	0	268,000	993,000	55,000	259,000	195,000	1907-08		
1,562,000	) <u>324,</u>	000	1,392.00	0	426,000	978,000	144,000	259,000	101,000	1908-09		
1,436,00	896,	000	1,241,0(	ю	384,000	1,068,000	221,000	214,000	<b>104,</b> 000	1909-10		
1,385,00	306,9	000	1,347,00	0	348,000	1.849,000	237,000	279,000	97,000	1910-11		
1,582,00	0 241,	000	921,00	0	251,000	1,400,000	228,000	346,000	124,000	1911-12		
1,575,00	0 346.	000	1,148,00	0	425,000	1,314,000	206,000	288,000	121,030	1912-1913		
							To	<b>AL</b>	Net exports	)		
Beng	al (j)		Assam		Ajmer-	Merwara	•	Outturn	and consump- tion			
acres	bales of 400 lbs	aci		les of 10 Ibs		bales of 400 lbs	acres	(bales of 400 lbs)	(bales of 400 lbs) (k)			
167,900	45,560	1				·	14,602,892	3,015,269	3,407,758	1898-99		
160,600	39,705 ·				1		11,884,576	1,090,168	2,105,877	1899-1900		
127,700	41,262	) { (h		(h)	(4)	( <i>h</i> )	14,231,150	2,953,381	8,132,501	<b>1900-0</b> 1	•	
118,500	82,094				<b>,</b>		14,506,295	2,744,591	8,566,296	1901-02		
100,300	29,366	þ.					L 16,581,046	3,867,030	4,049,672	1902-03		
127,000	40,000	Ŋ		ſ	88,000	5,000	18,025,000	8,160,665	3,789,268	1903-04		
128,000	37,000			i	52,000	18,000	19,918,000	3,791,000	3,943,602	1904-05		
132,000	<b>\$3,000</b>	ľ			<b>29,00</b> 0	5,000	21,072,000	8,416,000	4,168,451	1905-06	•	
151,000	33,000	ļ	(i)	(i) {	40,000	19,000	22,484,000	4,934,000	4,851,579	1906-07		
149,000	38,000				41,000	10,000	21,630,000	3,122,000	9,782,401	1907-08	· <b>,</b>	
161,000	\$5,000		,		40,000	9,000	19,999,000	3,692,000	4,200,150	1908-09	•	
166,000	85,000				39,000	13,000	20,545,000	4,718,000	4,928,000	1909-10		
169,000	49,000			l	45,00)	20,000	<b>22,5</b> 96,000	<b>3,853,</b> 000	4,308,000	1910-11	•	
63,000	25,000	<b>3</b> 6,0	00   13	,000	27,000	12,000	21,615,000	3,288,000	4,004,000	1911-12		
51,000	21,000	35,0	يت أدم	,000	51,000	20,000	21,911,000	4,395,000	4,326,000	1912-19		

the whole of the reported area under cotton in India

(g) Constituted in 1901 out of the Punjab
(h) No information
(i) Included under Bengal
(j) Includes Bihar and Orises up to 1910-11, Assam from 1903-04 to 1910-11, and the Hill Tipperah State from 1906-07
(j) Includes Bihar and Orises up to 1910-11, Assam from 1903-04 to 1910-11, and the Hill Tipperah State from 1906-07
(k) For the years up to 1911-12 the exports as well as the mill consumption are for the year ending the 30th September
(k) For the years up to 1911-13 the exports as well as the mill consumption arists as to the annual consumption outside the mills, but in 1911 it was soltied in consultation with the Bombay Cotton Trade Association to adopt the conventional estimate of 450,000 bales. This figure has been included in the figure for each year shown in this column Note.—Figures for 1912-13 are subject to revision

W	H	E	A	T
	-		-	-

The Provinces and States dealt with in this table practically contain

					Panjst	) (a)	United P	rovinces	Central Pro Beraz	vinces and (b)
					acres	tons .	acres	tons	acres	tons
1898-99	•	•	•		7,729,200	1,977,777	6,848,688	2,277,414	2,941,661	509,740
1899-1900	٠	4	٠	•	6,366,500	1,823,188	6,202,826	2,410,052	1,650,980	20,217
1900-01	•	٠		•	8,766,400	2,940,602	6,790,440	2,384,605	2,299,290	470,809
1901-02		•	•	•	7,227,100	1,846,832	6,461,729	<b>2,</b> 401,940	2,900,223	605,426
1902-03			•	•	6,995,200	2,314,714	6,909,549	2,972,497	2,501,863	701,214
1903-04	٠	•	•		7,765,700	3,075,161	7,788,753	3,230,018	3,373,824	821,440
1904-05	٠	•	٠		7,712,100	2,855,300	7,706,500	1,897,000	3,497,100	831,900
1905-06	•	•	٠	•	8,572,100	3,510,300	6,478,900	2,428,700	8,443,800	834,400
1906-07	•	•	•	•	9,100,100	<b>3,2</b> 66,900	7,044,000	2,164,500	8,714,400	904,100
1907-08	٠		٠		8,271,800	2,488,500	4,405,700	1,674,700	2,801,600	507,000
908-09	•	٠	•	•	9,002,100	3,062,200	5,694,700	<b>2,</b> 124,000	2,859,600	720,900
909-10	•	٠	٠	•	9,142,000	3,484,000	6,491,000	2,975,000	3,176,000	992,000
1910-11	•	•	٠	•	9,981,000	\$,709,000	7,849,000	2,919,000	3,585,000	973,000
911-12	٠	•	•		11,018,000	8,809,000	7,578,000	3,032,000	3,739,000	904,000
912-13	4	•	٠	•	9,309,000	2,989,000	7,397,000	2,944,000	3,789,000	1,067,000
					North-West I	Frontier (e)	Hyderabad	State (1)	* Bajputan	a States
					acres	tons	acres	tons	acres	tons
1898-99	٠	•	٠		444	***	1,113,431	33,098	1,196,014	276,388
899-1900	•	٠	٠	•		***	. \$39,136	1,598	360,733	79,289
900-01	٠	•	•	•	.,.	**#	636,247	12,279	713,290	170,682
901-02	•	•	٠	•	796,500	159,279	603,182	38,853	541,834	103,869
902-03	•	•	٠	•	822,900	234,594	614.092	53,724	818,899	190,841
908-04	•	٠	٠	•	994,062	<b>3</b> 02,094	1,134,769	100,535	1,125,277	297,162
904-05	*	٠	•	•	882,200	267,600	1,126,600	89,700	1,023,800	189,000
905-06	•	•	٠	•	1,024,600	279,700	994,500	41,800	665,600	136,600
906-07	•	•	•	•	1,146,400	805,200	1,039,500	109,000	842,400	181,600
907-08	•	•	٠	•	977,700	213,200	932,900	67,200	608,800	132,600
908-09	•	•	•	•	1,019,500	213,300	1,098,300	71,600	887,800	198,400
909-10	•	٠	•	•	1,008,000	235,000	1,097,000	67,900	1,085,000	206,000
910-11	•	٠	•	•	1,033,000	266,000	1,104,000	97,000	1,187,000	265,000
911-12	٠	•	•	•	1,203,000	280,000	970,000	43,000	963,000	204,000
912-19	•		٠		880,000	195,000	851,000	48,000	1,014,000	211,000

(a) Includes Native States from 1907-08
 (b) a the Native States of Khairagarh, and Nandgaon from 1907-08
 (c) " Btate of Baroda.
 (d) Included under Bongal

the whole of the reported area under wheat in India

	Orises	Bihar and	al (g)	Beng	ates) (c)	Bombay (incl St	lia States	Central Ind
	tons	acres	tons	acres	tons	acres	tons	aores
1898-99		)	656,400	1,582,500	737,385	2,470,998	287,749	1,613,851
1899-19			572,700	1, <b>5</b> 50,300	99,408	1,157,077	100,276	692,950
1900-01			472,600	1,498,700	298,479	- 1,433,810	220,116	1,244,330
1901-02			391,500	1,408,300	179,034	1,510,459	255,027	1,459,116
1902-03			485,900	1,417,000	532,601	1,797,245	408,843	1,182,298
1908-04	(d)	(d)	527,800	1,508,600	560,279	2,174,076	523,855	1,956,069
1904-05			495,200	1,505,600	356,600	2,260,900	473,200	2,227,400
1905-0 <b>6</b>			446,600	1,408,100	275,100	1,847,200	420,600	1,852,100
1906-07			420,600	1,538,500	338,200	1,662,900	614,600	2,447,500
1907-08			320,500	1,095,900	<b>3</b> 36,200	1,677,700	271,900	1,694,100
1908-09			334,000	1,832,000	388,200	1,745,700	<b>\$97,400</b>	2,046,400
1909-10		J	566,300	1,500,300	451,000	1,820,000	514,000	2,313,000
1910-11	<b>57</b> 0,000	1,312,000	38,000	143,000	506,000	1,855,000	582,000	2,460,000
1911-12	557,000	1,285,000	47,000	143,000	265,000	1,284,000	686,000	2,563,000
1912-13	532,000	1,281,000	51,000	146,000	451,000	1,539,000	984,000	2,1 38,000

Sind including States)		Мувоге	State	Tota	al	
acres	tons	acres	tons	BOTER	tons	-
869,706	81,281	4,029	492	25,370,078	6,837,674	1898-99
364,522	68,226	2,758	254	18,687,782	5,857,142	1899-1900
479,487	123,160	2,556	197	23,864,550	7,093,529	1900-01
534,004	109,009	8,714	256	23,446,161	6,090,524	1901-02
331,608	75,987	5,123	531	23,395,277	7,971,446	1902-03
586,895	202,171	5,718	630	28,413,743	9,641,145	1903-04
522,700	126,100	5,300	440	28,470,200	7,582,040	1904-05
628,100	196,200	2,400	140	26,357,400	8,570,140	1905-08 `
672,300	186,300	4,500	700	29,212,500	8,491,700	1906-07
447,500	113,300	2,600	600	22,911,300	6,125,100	1907-65
548,200	133,800	1,600	200	26,235,900	7,639,000	1908-09
471,000	192,000	<b>3</b> ,200	400	28,106,500	9,633,600	<b>'1909-1</b> 0
560,000	136,000	2,800	600	80,564,800	10,061,500	1910-11
\$91,000	97,000	4,000	<b>\$</b> 00	31,141,000	9,924,5(10	1911-12
471,000	127,000	4,000	700	29,569,000	9,599,700	1912-18

(c) Constituted in 1901 out of the Punjab
 (f) The figures for the years previous to 1902-03 exclude jagir areas
 (g) Includes Bihar and Orissa up to 1909-10
 Note.—The figures for 1912-13 are subject to revision

RICE	
The Provinces dealt with in this table ordinarily contain.	80 <i>m</i> c
[The figures of outturn represent cleaned rice]	

	-		Beng	al (¢)	Bihar and	l Orisaa	As	am	Madr	as (b)
			<sup>a</sup> acres	cwts	aores	cwts	acres	cwts	acres	cwts
898-99	•		39,605,400	405,842,900	<b>)</b>	·		[	7,166,000	54,946,700
1899-1900	•		39,490,500	857,956,860					6,429,000	89,437,100
1900-01	•	•	36,013,900	311,508,600				. I'	6,591,600	49,028,100
1901-02	•	•	35,094,800	272,201,900	-		(đ)	, (d)	6,858,200	51,490,20
902-03		•	87,553,700	<b>3</b> 58,977, <b>3</b> 00				.a 5	7,784,800	57,485,50
903-04	-		34,931,500	316,669,700				1	7,768,300	58 <b>,2</b> 00 <b>,0</b> 0
1904-05	•	•	38,355,200	847,929,100	(0)	(0)		ł ł	6,322,700	40,497,00
1905-06	•		41,110,800	329,365,100				ſ	6,604,400	45,898,20
1906-07		•	40,239,560	315,381,600					6,944,400	50,458,20
1907-08	•		40,210,200	266,561,900	·	[	(c)	(c)	7,215,100	49,501,50
1908-69	•		\$8,157,700	282,621,700			(*)	100 <b>1</b>	7,961,500	48,699,20
1909-10	•	•	42,977,000	435,608,000					7,675,000	57,856,00
1910-11	٠	•	42,798,000	436,974,000	J			. t	7,787,000-	68,471;00
1911-12	٠	•	20,437,000	172,707,000	17,363,000	178,125,000	4,045,000	31,923,000	10,288,000	116,650,00
1912-13		•	20,691,000	167,512,000	17,021,000	125,926,000	4,053,000	36,983,000	9,994,000	78,394,00

#### LINSEED

TTT 101		
. The British Provinces dealt with in this table ordinarily	contain 96.6 per cent of the total ar	ea under

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	•			United Pr	ovinces (a)	Central I and Ber	Provinces Far (b)	Hyderaba	d State (c)		r and ssa
				acres	* tons	acres	tons	acres	tons	acres	tons
1898- <b>9</b> 9 .	I	٠	•{	438,728 445,000	87,854 91,284	1,009,340	66,638	426,045	13,448	) ],	_
1899-1900		•	·{	857,850 409,000	73,267	828,497	4,319	171,970	1,506		
1900-01	•	•	-{	448,206 466.000	75,780	6 19,881	26,034	871,988	8,774		
1901-02		•	Ą	978,092 498,000	75,876	795,334	42,392	370,876	18,403		
1902-03			٠Ì	536,044 621,000	114,595	614,890	49,641	378,659	22,843		
1903-04	•		.}	782,302 . 592,000	144,736	999,389	96,184	529,214	25,290		-
1904-05	•		·}	634,500 647,000	51,800 49,000	959,700	80,500	775,800	\$3,500	( <i>d</i> )	(đ)
1905-06	•		·}	210,900 567,000	32,800 } 88,000 {	912,100	77,300	604,500	24,700		
1906-07	•		.}	\$15,000 633,000	56,000 113,000	1,158,200	106,200	664,300	28,600		
1907-08	•	•	٠ <u>,</u>	57,500 269,000	6,500 } 30,000 }	547,600	23,500	484,800	13,600		
1908-09	•	•	.}	194,700	80,400 } 78,000 {	954,700	90,900	555,400	17,200	{ }	
1909-10	•		.}	308,400 597,000	62,000 5	926,200	90,300	548,900	18,400		
1910-11	•		.š	472,800	120,000 } 102,900 }	1,080,400	124,500	631,300	80,400	510,800	102,400
1911-12	•	•	}	656,000 848,800	142,000 } 159,700 }	1,858,800	1.9,000				
1912-13		•	، }	747,000 493,500 667,000	140,000 } 95,500 } 128,000 }	1,508,600	141,800	603,500 512,400	26,800 17,300	567,600 517,900	120,100 99,300

Bice-(a) Includes Bihar and Orissa up to 1910-11 and Assam from 1906-06 to 1910-11
 (b) The estimates for Madras up to 1906-07 relate only to raiyatwari villages; but since that year estimates for certain samisadari and whole inam villages have also been included
 (c) Included under Bengal
 (d) No information

Lower	Burms	United P	rovînces	То	tal	
acren	cwts	acres	cwts	acres	cwts	а. <b>"</b> и
<b>5,910,65</b> 0	44,851,000 r		ſ	52,682,050	505,640,600	1898-99
,050,135	54,160,000			51,969,635	451,553,460	1899-1900
,326,998	52,975,00°			48,932,493	413,506,700	1900-01
,558,190	60;602,000		] [	48,511,190	884,294,100	1901-02
1,559,890	<b>53,0</b> 22,000			51,842,390	469,484,800	1902-08
,761,665	<b>64,411,00</b> 0			49,461,465	439,280,700	1903-04
,909,000	60,735,000	(d)	(d)	51,586,900	448,461,100	1904-05
6,718,400	67,940,000			54,428,600	438.188,300	1905-06
;973,700	61,924,000	,		54,157,600	427,748,800	1908-07
,252,000	63,148,000			<b>54,6</b> 77,800	379,211,300	1907-08
,569,100	64,659,000	l		53,088,300	890,979,900	1603-09
,467,000	64,175,000		-	58,119,000	557,136,000	1909-10
,449,000	57,493,000			<b>\$8,029,000</b>	557,938,000	1910-11
,873,000	66,490,000	5,220,000	85,579,000	64,726,000	601,473,000	1911-12
,885,000	71,258,000	6,811,000	89,950,000	66,405,000	520,023,000	1912-13

### 86 per cent of the total rice area of British India

linseed in British India

Beng	ral (*)	Ass	a <b>m</b> ,	Bombay (inclu States)	iding Native	Tot	al	
acres	tons -	Rcres	tons	acres	tons	PCIOS	tons	
677,900	144,700	h	- - -	277,462	23,975	{ 2,829,475 { 448,000	886,610 91,284 }	1898-99
653,200	126,700	{[	{	137,956	428	{ 1,648,908 { 409,000	206,220 } 89,464	1899-1900
	ļ			141,221	· 8,036	2,417,991	247,024 7 79,000 {	190 <b>0-01</b>
806,700 7 <u>8</u> 3,800	183,400 110,600			224,002	4,537	<b>2,546,604</b> <i>498,000</i>	251,808 ) 100,113 }	1901-02
364,200	160,000		1 1	198,544	12,989	{ 2,592,237 621,000	859,568 122,000	1902-03
922,800	168,800			<b>3</b> 81,374	81,822	\$ 8,609,079 592,000	466,832 105,000	1909-04
829,400	114,100	<b>}</b> (g)	(g)	548,000	18,500	{ 3.747,400 { 647,000	298,400 ] 49,000 }	1904-05
329,500	127,800		[	154,800	2,600	2,711,800 567,000	265,200 88,000	1905-08
805,600	114,600			167,100	6,800	{ 8,110,200 633,000	312,200 } 113,000 }	1906-07
589,400	85,900			151,100	4,000	{1,830,400 269,000	133,600 } 30,000 }	1907-08
				158,600	8,700	{ 2,498,000 499,000	219,700 } 78,000 }	1908-09
634,600	72,500			134,200	12,900	2,591,100 597,000	307,800 } 120,000 }	1909-10
673,400	124,200			194,700	28,300	\$ 8,101,300	421,600 }	1910-11
196,900	80,700	14,900	2,400	,		<b>6</b> 56,000 <b>(4,304,800</b>	502,000 2	1911-12
206,800	\$9,200	13,800	2,200	205,300	15,000 ]	747,000	140,000 \$ 407,700 }	•
199,800	37,400	12,400	2,300	.141,600	14,100	8,386,200 667,000	128,000	1912-13

Linseed—(a) The figures in Italics represent " mixed " crop, *i.e.*, seed sown in the same fields with other crops. The estimates of the mixed orop of the United Provinces are highly conjectural; hence they have been kept separate (b) The estimates of yield for Berar for the years previous to 1903-04 are defective, being based on incorrect data (c) The figures for the years previous to 1902-03 exclude *jagir* areas (d) Included under Bengal (e) Includes Bihar and Orissa up to 1909-10. (f) Includes the state of Baroda also (g) No information Note.—The figures for 1912-13 are subject to revision

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#### RAPE AND MUSTARD

The British Provinces dealt with in this table ordinarily contain 99.46 per cent of the total area under

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	United Pr	ovinces (à)	Panj	ab	Benga	ч (р) 	Bihar and	l Orissa	Ast	am
	acros	tons	acres	ton	acres	tons	acres	tons	acros	tons
1596-90	\$ 92,679 1,509,000	22,884 } 410,983 }	582,600	56,041	2,167,200	448,200	h	ſ	134,856	21,891
1899-1900	76,180 1,381,000	21,186 425,471	897,500	26,761	2,032,900	371,900			119,110	21,789
1900-01	94,130 1,449,000	24.060 372.000	1,638,400	218,022	2,043,200	\$37,800		ł	126,309	21,140
1901-02	{ 120,436 { 1,461,000	36,841 430,617	665,800	64,361	1,922,400	8 72,900		1	157,671	28,294
1902-08	140,296	31,320 516,000	936,100	91,857	1,914,100	341,700			174,719	27,905
	131,926	29,643	1,038,900	159,236	1,973,900	365,500	<b>}</b> (c)	(c)	172,039	29,098
	140,100	18,800 }	1,210,800	119,300	1,977,500	360,300			157,700	28,000
	154,700	30,000 2	1,614,200	183,000	1,861,700	287,300		Í	164,400	30,200
1906-07	153,400	398,000 {	1,402,400	172,300	2,026,500	837,000		Į.	222,000	43,600
1907-08	<b>§</b> 96,800	424,000 ( 11,800 )	843,800	110,000	1,889,100	275,600		, I	261,000	42,700
1908-09	<pre>\$ 136,800</pre>	217,000 { 26.900 }	1,158 900	183,900	1,854,900	231,900			284,800	46,400
1909-10	2,153,000	423,000 }	1,329,900	226,900	2,278,300	440,100		Į	320,100	60,500
1910-11	<b>2,269,000</b> <b>146,200</b>	466,000 { 34,400 }	1 000 000	155,100	1,870,700	238,600	765,700	151,900	\$18,100	56,000
1911-12	2,371,000 176,200	561,000	1,414,100	196,600	1,317,500	243,900	780,100	154,700	258,100	47,600
1912-13	2,872,000 145,900 2,373,000	609,000 \$ 31,000 551,000 \$	870 900	147,200	1,325,400	265,800	695,700	132,100	296,600	58,700

#### SESAMUM (til or jinjili)

The British Provinces dealt with in this table ordinarily contain some 79 per cent of the total area under

	United Prov	inces (a)	Central P and Ber		Bombay ( Native Si	including tates) (c)	Hyderaba (d)		Madras (s)		Bengal (f)	
	mores	tons	ACTÓR	tons	acres	tons	acros	tons	BCZOS	tons	acres	tons
398-9 <b>9</b> . {	155,178 713,000	15,159 70,000 }	769,751	49,095	754,827	115,566	436,740	14,468	690,700	100	367,200	52,100
699-1900	203,604 517,000	22,743 60.000	1,142,346	63,568	803,148	6,186	237,512	2,383	665,900	45,100	388,200	49,700
900-01 .	238,154	28,431 } 75,000 }	1,132,282	91,692	719,642	105,167	392,032	10,421	850,000	68,200	896,000	45,400
901-02 .	252,870 611,000	23,226	828,890	41,978	802,935	64,421	877,028	21,660	727,700	66,400	411,100	54,90
002-03	816,150 717,000	35,279 80,000	1,213,149	102,012	904, 523	177,187	472,282	84,038	782,700	71,700	884,800	45,00
903-04	874,559 747,000	84,345 70,000	1,083,847	85,181	1,125,055	218,219	601,607	83,325	855,700	78,600	428,800	58,00
904-05	804.100 600.000	18,900	891,100	69,000	793,900	52,700	780,000	29,400	674,200	55,100	493,700	59,00
905-06	278,200	17,500	792,900	66,900	908,100	105,100	465,600	18.400	723,300	55.000	515,000	61,70
906-07	809,200 775,000	86,200 90,000	807,900	70,400	1,049,500	186.000	498,700	27,300	556,900	45,800	495,800	72,20
907-08	329,800 900,000	10,000	977,600	55,400	992,700	61,400	510,600	20,600	647,000	58,100	419.400	46,30
908-09 .	\$ \$22,000 1,000,000	84,000 100,000	790,000	59,900	979,500	99,500	511.900	18,700	685,900	57,200	453,400	59.00
909-10	481,300	48,700	942,700	91,900	1,037,400	132,400	597,300	24,500	718,900	59,700	491,800	88.60
1910-11	438,910 900,000	45,400	895,300	76,400	994.800	109.400	677,700	84,400	573.200	49,300	489.100	
1911-12 .	\$ 875,000 800,000	29,000	\$86,700	72,300	548,900	31,700	663,900	25,400	887,200	l '		79,40
1912-18 .	816,700 900,000	100,000 4,000 810,000	000 000	61,800	761,800	94,000	649,100	82,500	742,400	78,200 62,109	271,800	41,50 89,30

Rope and Mustard-(a) The figures in Italics represent "mixed" crop. 1.5., seed sown in the same fields with other crops. The estimates of the mixed grop of the United Provinces are highly conjectural; hence they have been kept (b) Includes Bihar and Orisss up to 1903-10. (c) Included under Bengal (d) Constituted in 1901 out of the Punjab (e) The figures for the years provides to 1902-08 exclude jagir areas: East The figures for 1012-13 are subject to register.

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Note .- The figures for 1912-13 are subject to revision.

Sind (in Native			ier (d)		including States)	Hyde Stat		· . T	otal
acres	tons	acres	tons	acres	tons	80:68	tons	aores	tons
70,766	8,601		****	53,091	9,795	8,796	286 {	8,109,988 1.509.000	567,698 410.983
64,637	6,193		38° 886	2,536	l m	905	6 {	2,693,768 1,381,000	447,946 425,471
119,596	12,304	444.444	A47 653	<b>\$9,134</b>	6,613	16,597	286	4,077,366	650,225 <i>372,000</i>
113,140	12,049	73, 700	8,723	17,438	1,721	12,077	146}	3,082,652 1,461,000	525,035 \$30,617
78,606	7,818	110,900	13,151	54,625	7,691	12,537	289 }	3,421,883 2,335,000	521,926 516,000
85,525	16,550	180,231	17,197	36,007	5,786	14,917	266 {	3,583,445 2,429,000	623,206 542,000
60,100	2,500	55,700	8,300	25,100	3,000	13,000	200	3,640,000 .2,509,000	540,400 336,000
64,200	11,500	85,500	12,200	43,800	9,300	14,300	100 {	4,003,800 2,026,000	563,600 398,000
87,900	12,400	218,800	19,400	61,400	14,300	10,700	100 }	4,183,100	629,100 424,000
63,100	6,400	121,000	12,300	46,900	12,500	9,500	200	8,330,200 1,870,000	471,000 217,000
120,400	23,400	226,900	28,600	80,800	23,200	12,500	200 {	3,875,500 2,153,000	564,500 423.000
69,700	10,100	91,700	7,900	86,900	22,600	8,100	100 \$	4,361,600	804,200 466.000

15.400

2,600

19,500

9,300

6,500

11.100

200

100

200

8,330,200 1,870,000 8,875,500 2,153,000 4,361,600 2,269,000 2,344,900 2,371,000 4,118,330 2,872,000 8,540,500 2,373,000

17

rape and mustard in British India

11.100

4,700

4,700

85.100

94,200

75,700

9,500

12,100

7.200

84,600

17,600

73,200

113.140

120,400

76,200

54,000

45,700

sesamum in British India

	ar and issa	Assar	m	Punjab a Fronti	nd NW. ier (g)	Sind (includin States		Tot	al	
aores	tons	aorea	ton	ACTOR	tons	aoros	tons	aores.	tons	
••••			; ; ;	252,600	25,850	114,129	8,285	1 <b>3,530,625</b> 713,000	348.118 70,000	}1898-99
	-			216,400	. 16,238	158,957	7,323	{3,316,067 {517,000	213,256 60,000	1899-1900
		,	,	218,500	19,077	105,881	4,468	4,052,491 622,000	872,856 75,000	} 1900-01
		. ,	·	211,500	17,640	99,693	5,985	8,711,711 611,000	295,210 60,000	} 1901-02
.			1	244,000	20,819	118,044	7,602	4,435,648	493,587 80,000	1902-03
	"、 ·			246,600	26,143	122,496	5,665	4,838,164	539,478 70,000	1903-04
(h)	(h)	(\$)	· (i) {	158,000	16.000	83,700	5,800	(4,178,700 600,000	\$00,400 \$5,000	<b>}1904-05</b>
				145,300	18,900	84,400	6,300	{3,913,800 } 700,000	844 800 45,000	1905-06
	r 1		· 1	95,500	8,800	55,900	4,900	3,864,900	451,000 90.000	1906-07
•		•		84,100	4,700	55,600	4,200	4,016,800	255,700	1907-08
				164,700	23,700	80,500	12,300	900,000 3,957,900	30,000 364,300	1908-09
			· · []	175,600	18,500	67,000	6,500	1,000,000 4,515,000	100,000 470,800	\$ 1909-10
	· .	· (ħ)	(ħ)	148,700	14,900	88,300	12,600	\$ 900,000 \$4,306,000	90,000 421,800	<b>{ 1910-11</b>
14,600	83,500	9,700	1,300	92,100	9,900	58,200	4,800	909,000 4,008,100	90,000 327,600	1911-12
20,600	24,700	10,600	1,800	150,100	15,000	67,400	6,500	800,000 4,006,200 900,000	70,000 371,700 -100,000	1912-18

Sesamum-(a) The figures in Italies represent "mixed" crop, i.s., seed sown in the same fields with other crops. The estimates of the mixed crop of the United Provinces are highly conjectural; hence they have been kept separate
 (b) The estimates of yield for Berar for years previous to 1903-04 are defective, being based on incorrect data
 (c) Includes the State of Barods
 (d) The figures for the years previous to 1902-03 exclude jagir areas
 (e) The estimates for Madras up to 1906-07 relate only to raivatwari villages; but since that year estimates for certain zamindari and whole inam villa ges have also been included
 (f) Includes Bihar and Orisea up to 1906-07 relate only to raivatwari villages; but since that year estimates for certain zamindari and whole inam villa ges have also been included
 (g) The figures for loboth area and yield from 1904-05 relate to the Punjab only; the forecast of the Sesamum erop of the North-West Frontier Province having been discontinued from that year
 (h) Included under Bengal
 (i) No information

1898-99

1899-1900

\$ 1900 01

} 1901-02

\$ 1902-03

1903-04

1904-05

} 1905-08

L 1908-07

1907-08

1908-09

\$1909-10

\$ 1910-11

1911-12

} 1912-19

804,200 466,000 672,200 561,000 699,500 609,000 669,400 651,000

#### SUGARCANE

			r		<u> </u>	· · · ·			
121 <u>42-000000000000000000000000000000000000</u>		United P	rovinces	Panj	ab	Bihar and	Orissa	Bengal	l (a)
		acros	tons	BCTCS	tons	acres	tons	äores	tons
1898-99		1,227,881	1,204,799	\$51,200	(b)	<u>,                                    </u>	ſ	861,100	871,495
1899 <b>-19</b> 00 ·		1,259,070	838,885	843,600	203,935			884,400	817,185
1900-01		1,212,456	1,193,214	334,500	272,114		. []	801,800	811,420
1901-02		1,228,691	976,222	\$51,500	289,105		11	661,200	676,410
1902-03		1,161,777	904,133	309,400	<b>2</b> 04, <b>0</b> 18			673,500	681,580
1903-04		1,089,602	877,103	\$21,200	232,664			632,400	653,900
904-05	•	1,212,600	1,163,400	\$25,500	238,300	(0)	(c)	633,000	634,700
905-06		1,228,900	884,000	172,700	89,000		·	623,100	615,200
1906-07		1,386,700	1,264,600	277,700	212,800			606,700	594,700
1207-08		1,481,700	916,700	\$91,800	238,700			607,200	583,100
1908-09		1,120,100	844,200	\$65,700	265,600			<b>553,000</b>	430,800
1909-10		1,037,600	955,200	403,800	828,700		· · []	507,600	495,800
1910-11		1,047,100	1,042,900	\$87,900	<b>262,6</b> 00	J	l	615,600	<b>563,</b> 500
1911-12		1,340,600	1,259,300	284,500	161,200	263,000	803,800	<b>228,800</b>	256,300
1912-13		1,424,300	1,300,700	\$60,400	255,700	266,200	292,800	221,800	263,200
		1		1	ł	1 · ·	· _		

The Provinces dealt with in this table ordinarily contain some 98.3 per cent [The figures of ontiurn represent raw sugar (gúr)]

#### INDIGO

The Provinces dealt with in this table ordinarily contain some 98 per cent of the total area under indigo

					Bihar and Ori	888 (2)	Ber	ngal	Madra	<b>S</b>
					SCT68	owta	acres	cwts -	aores .	cwts
898-99	•	•	•	•	512,100	74,321	)	<u> </u>	210,600	30,320
899-1900	•	• •	•	•	449,200	44,996		] ]	249,000	83,840
900-01	•	•	•		360,600	47,707			251,900	46,100
1901-02	*	•	•		\$11,300	41,820			239,400	\$8,480
1902-03		•	٠	•	255,500	21,924			212,200	40,260
1909-04			•	•	249,700	31,895			241,900	45,900
1904-05	•	٠	•	•	223,100	24,300			126,300	16,700
1905-06	•		•	•	161,500	15,800	\$ (b)	(ð)	~ 118,900	17,300
1906-07	•.	٠	•		137,800	17,300			180,700	<b>92,9</b> 00
1907-08		•	•	•	146,800	17,700			141,900	20,000
1908-09		٠	•	•	135,800	17,000			81,800	12,400
1909-10		•	•		107,400	11,400			96,400	14,400
1910-11		٠	•		117,000	13,900	j j	. l	82,800	20,10
1911-12	•	٠			109,600	17,800	1,000	100	90,300	21,20
1912-13		•			. 90,100	14,700	1,000	100	60,100	18,30

Sugarcane-(a) Includes Bihar and Orissa up to 1910-11 and Assam from 1905-06 to 1910-11
(b) No information
(c) Included under Bengal
(d) The atimates for Madras up to 1906-07 relate only to raisatwari villages; but since that year estimates for certain samindari and whole inam villages have also been included
(e) Included under Punjab
Note.-The figures for 1912-13 are subject to revision

Ass	m	Madra	a (d)	Bombay ( Native	including States)	NW.	Frontier	Tot	al	
acres	tons	acres	tons	aores	tons	acres	tons	acres	tons	*
	(	45,500	)	3	[		(	2,485,681	8,076,234	1898-99
		54,400	- (8)			(ø)	(0)	2,541,470	1,860,005	1899-1900
	ĺ	55,400	)		ĺ		) (	<b>3</b> ,404,156	2,276,748	1900-01
(ð)	(8)	51,100	109,400			23,900	21,939	2,816,891	2,022,476	1901-02
		48,500	93,400	(6)	(8)	26,652	23,660	2,207,829	1,906,784	1902-03
1	ł	44,300	83,700			27,090	24,620	2,114,592	1,871,986	1903-04
	Į	47,800	90,000			25,900	22,600	2,244,800	2,169,000	1904-05
	ſ	60,700	114,500			25,600	22,800	2,111,000	1,725,500	1905-06
		<b>59,100</b> .	100,400	J	l	28,600	32,800	2,351,800	2,205,300	1906-07
		49,000	92,000	74,300	184,200	35,200	32,200	2,639,200	2,046,900	1907-08
(c)	()	43,700	81,000	92,800	221,200	27,500	30,100	2,202,800	1,872,900	1908-09
		43,800	82,000	89,200	232,900	30,600	39,100	2,112,800	2,127,100	1909-10
	ł	47,900	87,100	83,400	226,000	32,700	\$5,700	2,114,600	2,217,800	1910-11
84,700	28,000	107,700	196,000	94,700	214,600	31,500	31,900	2,380,800	2,451,100	1911-12
38,200	\$3,100	101,000	204,500	72,500	168,500	29,800	\$3,500	2,514,200	2,552,000	1912-13

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## of the total area under sugarcane in British India

# in British India

Panj	da	United Pro	vinces	Total	, ,	
acres	cwts	scres	cwts	acres	cwts	
47,200	8,268	240,418	26,416	1,010,318	189,320	1898-99
97,300	15,577	231,400	17,977	1,026,900	111,890	1899-1900
115,700	22,693	262,176	31,529	990,375	149,029	1900-01
71,600	13,533	168,990	18,986	791,190	112,819	1901-02
43,000	7,016	135,811	10,007	645,511	79,207	1902-08
74,200	12,184	140,834	12,823	706,634	102,802	1903-04
53,000	9,900	74,500	8,000	476,900	58,900	1904-05
67,500	10,800	40,700	4,300	883,600	48,200	1905-08
62,300	11,000	40,400	5,100	421,200	65,700	1906-07
57,900	9,000	47,800	5,600	393,900	<b>52,</b> 300	1907-08
\$6,200	5,600	<b>30,600</b>	3,800	283,900	38,800	1908-09
43,400	8,300	41,900	5,200	289,100	39,300	1909-10
45,400	8,500	<b>\$</b> 1,200	3,500	276,400	48,000	1910-11
<b>36,600</b>	- 5,600	29,400	3,000	266,900	47,700	1911-12
86,400	6,000	26,900	3,500	214,500	<b>37,</b> 600	1912-13

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Indigo-(a) Includes Bengal up to 1910-11 (b) Included under Bihar and Orissa Note.--The figures for 1912-13 are subject to revision

#### GROUNDNUT

[The figures of outturn represent nuts in shell]

.

		Madra	s (a)	Bombay (in Native St	ncluding tates)	Burma (	r)	Total		
		acres	tons	acres	tons	acres	tons	acres	tons	
				· · · · ·		/		•		
1898-99		116,200		101,614	70,561		ſ	217,814	<b>70,561</b>	
1899-1900		102,000		71,946	· 9,250			173,948	9,250	
1900-01	•	229,997	(6)	64,411	28,631	<b>k</b> - 1		294,408	28,631	
1901-02		337,600	(0)	96,622	63,298	-		434,222	(d) { 63,298	
1\$02-03		421,300		69,855	61,854	(b)	(6)	491,155	61,854	
1903-04		384,400		89,793	94,409			474,193	94,419	
1904-05		866,400	151,700	93,300	63,200		.    	459,700	214,900	
1905- <b>06</b>	•	393,100	174,500	92,800	36,700			485,900	211,200	
.906-07		511,000	189,000	111,000	84,700			622,000	273,700	
£07-08	·	601,800	202,000	129,800	82,500	137,000	67,700	868,600	352,509	
903-09	•	718,700	246,500	133,700	129,600	258,600	119,700	1,111,000	495,700	
1909-10	·	740,100	221,900	162,300	172,700	146,300	64,700	1,048,700	459,300	
1910-1 <b>1</b>	•	667,300	254,200	185,800	222,300	98,800	41,900	951,900	503,200	
1911-12	•	806,000	306,000	269,300	248,300	138,800	51,400	1,214,100	605,700	
1912-13	•	934,500	341,100	216,800	215,300	196,000	75,000	1,847,300	631,400	

(a) The estimates for Madras up to 1906-07 relate only to raiyatwari villages; but since that year estimates for certain zamindari and whole inam villages have also been included
(b) No information
(c) The figures up to 1911-12 relate to the principal groundnut growing districts. Those for 1912-13 include
(d) Bombay only

Note.—The figures for 1912-13 are subject to revision

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#### JUTE

The Provinces dealt with in this table practically contain the whole area under jute in India

	Bengal (a)				Bihar and Orissa			Assam		Cooch Bihar State		Total										
	ac	acres		bales of 400 lbs		es of 400 lbs		ies of 400 ibs		ales of 400 lbs		bales of 400 lbs		acres	bales of 400 lbs	\$CI63	bales of 400 lbs '	acres	bales of 400 lbs	acros	ь	ales of 400 ibs
.898	1,62	34,400		5,334,000	n 1							1,621,400	]									
<b>'</b> 808 .	1,96	- 1,800		5,412,000								1,961,800										
1900 .	2,09	3,400		6,526,000				(đ)	(d)	(d)	(d) {	2,093,400										
	2,26	13,800 (	b)-	7,438,060								2,263,900	}	See under Kengal								
1902 .	2,10	09,800		6,577,000				<b>34,400</b>	48,000			2,143,700		-								
1903 .	2,2	13,600		7,241,000		(c)	(c)	88,250	(c) { 90,000	23,200		2,275,050										
1904 .	2,8	50,000		7,400,000		,	-	29,700	46,000	20,000	c) 36,006	<b>2,899,7</b> 00	ļ									
1905 .	3,0	80,700		8,029,000				37,600	59,100	(d)	52,800	<b>3,128,3</b> 00		6,140,900								
1906 .	3,4	84,000		<b>9,</b> 020,500				48,900	106,900	(d)	79,000	8,482,900		9,208,400								
1907 .	3,8	46,500	, ,	9,512,100				<b>s</b> 95,500	224,100	\$2,000	81,600	3,974,300		9,817,800								
1908 .	2,7	66,300		6,132,700				68,400	138,500	32,000	39,000	2,856,700	1	6,310,800								
1909 .	2,7	73,100		6,992,500				83,500	180,500	20,000	<b>33,</b> 600	<b>2,876,60</b> 0	(0)	<b>7,2</b> 06,600								
1910 .	2,8	41,600		7,735,300				82, <b>2</b> 00	177,800	14,000	18,900	2,937,800		<b>7,932,00</b> 0								
1911 .	2,7	37,600		7,247,600		258,100	703,500	90,700	239,600	20,000	42,000	3,106,400		8,231,700								
1912 .	2,9	27,100		8,413,700		298,300	792,900	95,600	226,800	32,800	88,400	<b>3,853,800</b>	ł	9,521,800								

(a) Including Bihar and Orissa up to 1910. The estimates of area previous to 1904 were based on very uncertain data
(b) Revised according to the statistics of trade and consumption, and including the production of Assam, Couch Bihar and Nepal
(c) Included in the figures shown under Bengal for these years
(d) Not reported
(e) Excluding the figures for Nepal, Upper India, and Madras, which are stated below (bales) :--

			1		Nopal	Upper India	Madras	
						(viâ E. I. Ry.)	(vid B. N. 1	ly.)
1905	•				64,800	26,269	4.257	
190 <b>6</b>	•				50,018	10,520	1,057	
1907			•		77,600	5,500	7.800	
1908					81,800	6,100	900	
1909					69.894	11,364	154	
1910					42,751	36,860	564	
	Note	The f	gures	for 1	1912 are sul	ject to revision		

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