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COMMERCIAL INTELLIGENCE DEPARTMENT  
INDIA



# AREA AND YIELD

OF CERTAIN

# PRINCIPAL CROPS IN INDIA

|           |  |          |
|-----------|--|----------|
| RICE      |  | GILSEEDS |
| WHEAT     |  | JUTE     |
| COTTON    |  | INDIGO   |
| SUGARCANE |  |          |

FOR VARIOUS PERIODS FROM

1893-91 TO 1907-08

ALCUTTA  
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## PREFACE TO THE TENTH ISSUE.

In previous years the record of the conditions prevailing at the time of forecast in each province was summarized for the years dealt with in the tables, and prefixed to them; but this form of presentation was both cumbrous and inconvenient, as merchants wishing to discover the causes of marked fluctuations in area or yield might take some time to discover the summary with the particular crop, particular province, and particular season in which they were interested. Considerations of space also rendered it necessary to confine the figures given to fifteen years instead of giving a complete series from 1891-92 as in the issues prior to 1907. In the present volume accordingly the summaries have been omitted, and in their stead a new column opened in the tables of area and outturn epitomizing in a phrase the character of the season—thus enabling the reader to see at a glance the bearing of one upon the other. The interest of the publication has, it is hoped, been further enhanced by the insertion of the prefatory notes hitherto exclusively appended to Table IX in the volume of Agricultural Statistics—explaining in detail for each province how the forecasts are prepared.

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*November 16, 1908*

## CONTENTS

|                            | PAGE  |
|----------------------------|-------|
| GENERAL NOTES . . . . .    | 1-2   |
| PROVINCIAL NOTES . . . . . | 2-6   |
| TABLES of Area and Yield—  |       |
| ABSTRACT TABLE . . . . .   | 8-9   |
| RICE . . . . .             | 10-11 |
| WHEAT . . . . .            | 12-15 |
| COTTON . . . . .           | 16-19 |
| OILSEEDS—                  |       |
| LINSSEED . . . . .         | 20-21 |
| RAPE AND MUSTARD . . . . . | 22-23 |
| SESAMUM . . . . .          | 24-27 |
| GROUNDNUT . . . . .        | 28    |
| JUICE . . . . .            | 29    |
| INDIGO . . . . .           | 30    |
| SUGARCANE . . . . .        | 31    |

# 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 this 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, but for both cotton and sesamum, of which there are early and late varieties, four reports are issued.

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 provincial authorities.

The estimates are not 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 consideration 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 continues to fall short of the total of net exports and consumption shows that there is still much room for improvement in the estimates of production. >

Attention has also been paid to the improvement of the jute forecast, and the yield for past years, from 1895 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, Eastern Bengal and Assam, Lower Burma, and Madras, and those for sugarcane to Bengal, Eastern Bengal and Assam, Madras, the United Provinces, the Panjab, the North-West Frontier, and Bombay. 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 omission from this cause is in the figures for Madras, which is a large producer of rice, cotton, sesamum, and indigo, but which up to 1906-07 made forecasts only for the raiyatwari villages or about two-thirds 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 Panjab, the United Provinces, the Central Provinces, 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 proportion of the cotton, oilseeds, and wheat is grown. The statistics of area for Bengal and Eastern Bengal 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 43 per cent for Bengal and 19 per cent for Eastern Bengal.

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.

### Burma.

Estimates are made for rice and cotton.

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 Director of Land Records compares the estimated yield with a standard representing the normal yield which was fixed after an extensive series of experimental crop cuttings by settlement officers.

(Rice) Estimates are made for the fifteen chief rice-producing districts of Lower Burma, namely, Akyab, Kyaukpyu, Hanthawaddy, Pegu, Tharrawaddy, Prome, Ma-ubin, Pyapou, Bassein, Henzada, Myaungmya, Amherst, Tavoy, Toungoo, and Thatou. The standard is 32 baskets (of 48lb each) = 1,536lb of unhusked rice to the acre.

(Cotton) 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. 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.

### Assam.

Estimates are framed for rice, cotton, mustard, 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.

(Rice) The estimates for rice relate to all the plains districts (*i.e.*, excluding the hill tracts). The crop includes the *bhadoi*, *ais*, or autumn rice, and the *aman*, *ba*, or winter rice. The yield of a normal crop is taken to be 7 cwt per acre for autumn rice and 10 cwt per acre for winter rice.

(Cotton) Cotton is grown in the Garo and the Khasi and Jaintia Hills, in Cachar, Sylhet, Goalpara, Kamrup, 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 200lb of cleaned cotton (400lb of seed cotton) per acre.

(Oilseeds) Mustard is grown in all the districts; but the estimates in this table relate to temporarily settled tracts only. Up to 1901-02 the season's figures were based on a standard (600lb to the acre) which was first adopted in 1893. In 1902-03 a separate standard rate of outturn was fixed for each district.

(Jute) The estimates for jute relate to the three districts of Sylhet, Goalpara, and the Garo Hills in which the cultivation of jute is of any importance. The Bengal rate of 1,200lb (= 3 bales) per acre for a normal crop is taken to estimate the yield of the crop.

(Sugarcane) The estimates for sugarcane relate to all the plains districts. The average yield of raw sugar (*gur*) is taken to be 22 cwt per acre.

### Eastern Bengal.

Estimates are made for rice, wheat, cotton, oilseeds, jute, and sugarcane. The figures are more or less conjectural, being based mainly on rough approximate estimates made by district officers, who obtain their information from thana (police) officers. 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 Eastern Bengal for the last ten years, but sufficiently trustworthy figures of yield have not yet been obtained from these cuttings to enable Government to accept them as standards.

(Rice) The rice crop includes the *bhadoi*, *ais* 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 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 10 cwt per acre for winter rice and 7 cwt per acre for autumn and summer rice. These rates have been assumed to represent the average yield in cleaned rice.

Wheat is grown in all the districts excepting Dinajpur, Bogra, Dacca, Backerganj, (Wheat) Tippera, Noakhali, and Chittagong. The average yield has been fixed provisionally at 10½ maunds or 861½ lb per acre.

For cotton four reports are prepared during the season. The crop is sown before the monsoon rains commence and harvested in winter, and is grown in Jalpaiguri and the Chittagong Hill Tracts. Separate rates of standard outturn have been adopted for each district. (Cotton)

The oilseeds are linseed, rape and mustard, and sesamum. The first three are grown in all districts (excepting Jalpaiguri and Rangpur, 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 per acre. (Oilseeds)

Sesamum is grown in all districts; it is sown generally in October and reaped early in winter. A late variety is sown in the cold weather and reaped in May. The average yield is assumed to be 4½ maunds per acre.

The estimate of the jute crop covers all the districts except Chittagong. A general rate of 1,200 lb, or three bales, is assumed to represent the average production per acre for every jute-growing district in the province. (Jute)

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 cwt per acre. (Sugarcane)

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 ascertainment of standards of yield has been in force in Bengal for the last thirteen years, but sufficiently trustworthy figures of yield have not yet been obtained from these cuttings to enable Government to accept them as standards. Bengal.

The rice crop includes the *bhadoi*, *ahs* 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 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 calculated as follows: the area cultivated with winter rice is multiplied by 15 maunds to the acre, and the area with autumn and summer rice by 10 maunds (the maund in each case being equal to 82½ lb). These rates have been assumed to represent the average yield in cleaned rice. (Rice)

Wheat is grown in all the districts, excepting Howrah, the 24-Parganas, Khulna, and Puri. Of the total area under the crop the districts of the Patna Division contain about one-half and those of the Bhagalpur division about one-third. The average yield has been fixed provisionally at 12 maunds or 984 lb per acre for the Bihar districts, 10½ maunds or 861½ lb per acre for the Bengal districts, and 45 lb per acre for the districts of the Chota Nagpur Division. (Wheat)

For cotton two reports were prepared up to 1904-05, one on the early and the other on the late crop; but from 1905-06 four reports are prepared during the season. The early crop, which is sown before the monsoon rains commence and harvested in winter, is grown in the districts of Bankura, Midnapur, Saran, Monghyr, Bhagalpur, the Santhal Parganas, and in the Chota Nagpur and Orissa Divisions and also to a limited extent in Shahabad and Darbhanga. 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 Bankura, Midnapur, Manbhum, Singhbhum, and in the Patna, Bhagalpur, and Orissa Divisions, excepting the districts of Gaya, Purnea, the Santhal Parganas, and Angul. Separate rates of standard outturn for the early and the late crops have been adopted for each district. (Cotton)

The oilseeds are linseed, rape and mustard, and sesamum. The first three are grown in all districts (excepting Darjeeling, Angul, and Ranchi, 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 per acre. (Oilseeds)

Sesamum is grown in all districts except Darjeeling; it is sown generally in October and reaped early in winter. A late variety is sown in the cold weather and reaped in May. The average yield is assumed to be 4½ maunds per acre.

The estimate of the jute crop covers seventeen districts in which jute is grown, namely, Burdwan, Midnapur, Hooghly, Howrah, all the districts of the Presidency Division, Champaran, Muzaffarpur, Bhagalpur, Purnea, Darjeeling, the Santhal Parganas, Cuttack, and Balasore. A general rate of 1,200 lb, or three bales, is assumed to represent the average production per acre for every jute-growing district in the province. (Jute)

The report on indigo relates to districts in which the crop is still grown, namely, Nadia, Jessore, all the districts of the Patna Division except Patna, and all the districts of the Bhagalpur Division except Darjeeling. The average yield is assumed to be 20 lb an acre in the districts of Monghyr, Bhagalpur, Purnea, and in the districts of the Patna Division, and (Indigo)

1275 an acre in all the remaining districts of the province. These rates serve as multipliers of the acreage under cultivation in each district in a year of normal, that is, 100 per cent outturn.

(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 (*gúr*) is estimated at 22 cwt per acre.

United  
Provinces.

Estimates are made for wheat, cotton, linseed, rapeseed, sesamum, indigo, and sugarcane. 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.

(Cotton)

The Native State of Rampur, which is the only cotton-growing State in the province, is included in the estimates 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.

Linseed, unmixed with any other crop, is chiefly grown in the districts of the Rohilkhand, Allahabad, Benares, Gorakhpur, Lucknow, and Fyzabad Divisions, and in Naini Tal; and rapeseed in the districts of the Rohilkhand, Gorakhpur, Lucknow, and Fyzabad Divisions, and in Naini Tal and Kheri.

The only districts in which til (sesamum), unmixed with any other crop, is cultivated to any considerable extent are Banda, Hamírpur, Jhánsi, Jalaun, Mirzapur, Gorakhpur, Sitapur, Gonda, and Bahraich.

(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 of dye represents the full average yield in an average year.

Panjab.

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 tahsildars and leading agriculturists. The total number of agriculturists consulted by the Collectors and tahsildars must amount to several thousands.

(Wheat)

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

(Cotton)

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 Jhind.

(Oilseeds)

The estimates for rapeseed relate to all but four districts, the exceptions being Simla, Jalandhar, Montgomery, and Gurdaspur.

The estimates for sesamum relate to twenty-two districts: Hissar, Gurgaon, Karnál, Ambala, Ferozpur, Kangra, Hoshiarpur, Jalandhar, Multan, Jhang, Montgomery, Lahore, Amritsar, Gurdáspur, Siálkot, Gujrát, Gujránwála, Ráwalpindi, Attock, Mianwali, Dera Ghazi Khan, and Muzaffargarh.

(Indigo)

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 Rohtak) 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.

(Sugarcane)

The estimates for sugarcane relate to fifteen selected districts. The crop is sown in March and April.

N.-W. Frontier.

Estimates are prepared for wheat, cotton, rapeseed, and sugarcane. Until 1903-04 an 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 field-to-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.

(Wheat)

The estimates for wheat relate to all the districts of the province, and include the Tochi Agency from 1901-05, and the Kurram Agency from 1906-07.

(Cotton)

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

(Oilseeds)

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

(Sugarcane)

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

Estimates are framed for wheat, cotton, linseed, rapeseed, sesamum, groundnut and sugarcane. The estimates include British districts as well as Native States. *Bombay and Sind.*

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 91·2 per cent in the Presidency proper and 99·6 per cent in Sind. In the case of Native States the acreage is estimated on the best local data available. The approximate numerical strength of the reporting 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 by a formula based partly on actual ascertainment of yield by crop cuttings and partly on returns of estimated yield and local enquiry. The ascertainment of actual yield is being systematically continued in each district under the direction of the provincial Agricultural Department, and the results are tabulated and compared in order to form a basis for a revision of the formula. The unit of area in the formula is the taluk and dry and irrigated crops are separately dealt with.

Each year's estimate is prepared by the mamltdars (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 Collector on receipt of these remarks forwards to the Director his opinion as regards the general condition of the whole district.

Except for Gujarát, the formula is framed on a system by which allowance is made in the quantitative yield for the ascertained tendency of the raiyat to under-estimate good yields and to over-estimate poor yields.

For Sind there are no formulae, and all the necessary information is obtained by the District Collectors in the form of estimates on the basis of twelve, together with quantitative equivalents gathered from general experience.

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

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

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 and harvested in December, and the late crop of Gujarát, Karnátak, and Sind sown in September to October and reaped in February to March. (Cotton)

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

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 and the Belgaum district in Karnátak. (Groundnut)

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 211 revenue inspectors with, on an average, 24 patwaris working under each inspector. Each tahsil has usually 4 revenue inspectors. *Central Provinces.*

Standards of outturn were framed for each crop from the results of crop cutting experiments 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 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. The standards were revised in 1894 on a review of crop cuttings made during the four years, 1888-89 to 1891-92. They were again revised in 1898 on a revision of crop cuttings made during the four years 1892-93 to 1895-96. The standards for cotton were again revised in 1903. The yield expressed by the people in terms of annas in the rupee is converted into percentages, 13·3 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 1897-93 the figures did not take into account the zamindari areas in Raipur, Biláspur, 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.



(Wheat) 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.

(Cotton) 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.

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

*Berar.*

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, taking the standard of normal outturn per acre to be 550lb for wheat, 100lb for cotton (cleaned), and 350lb each for linseed and sesamum.

*Madras.*

Estimates are framed for rice, cotton, sesamum, groundnut, indigo, sugarcane, and castorseed.

The estimates of the rate of yield are those reported by tahsildars or deputy tahsildars, which are tabulated in the office of the Board of Revenue.

(Rice) For rice the standard rates are based on the grain values of soils taken for settlement purposes, and worked out for each settled district as the standard for these districts. For districts not yet settled, and for Tinnevely, the average of all settled districts is taken.

(Cotton) For cotton the standard has been determined on a full consideration of all available data at 40lb per acre for *Northern* and *Westerns*, 55lb for *Salems*, 90lb for *Tinnevellies*, and 50lb for *Cocanadas* and others. 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 crop begins in February and continues until July or August.

(Sesamum) For sesamum the standard of yield has been fixed with reference to the latest crop cutting experiments at 336lb per acre for the Vizagapatam, Godavari, Tanjore, and Trichinopoly districts, 224lb for Malabar and the Deccan districts, and 280lb for the remaining districts.

(Groundnut) The groundnut crop is chiefly grown in North Arcot, Chingleput, South Arcot, Tanjore, and Trichinopoly, more than half being grown in South Arcot. The crop is also very largely grown in the zamindari area from which no statistical information is at present obtainable. The rate of outturn has been fixed at 10 cwt of nuts in shell per acre.

(Indigo) The estimates for indigo comprise the districts in which it is mainly grown: Kistna, Nellore, Karnul, Anantapur, Cuddapah, Chingleput, and North and South Arcot. The standard of yield was taken, on the best information on record, at 25lb of dye to the acre.

(Sugarcane) The sugarcane crop is grown chiefly in South Arcot, Trichinopoly, Ganjam, Godavari, Bellary, Anantapur, Coimbatore, and Cuddapah. The standard of yield has been fixed at 45 cwt of manufactured jaggery (*gur*) to the acre.

*Ajmer-Merwara.*

Estimates are made for cotton only. As regards area, the information is taken from the field book (*khassa 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 crop cutting experiments conducted each year. The Ajmer-Merwara district is divided into 12 girdawars' circles and in each circle the girdawar carries out crop experiment 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. 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 and istimrar areas.

*Rajputana and Central India.*

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

*Hyderabad.*

Estimates are framed for wheat, cotton, and oilseeds. Until 1902-03 the figures excluded 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.

*Mysore.*

Estimates are framed for wheat and cotton.

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**Tables of Area and Yield**

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## ABSTRACT TABLE OF AREA AND YIELD

|                         |                   | 1893-94       | 1894-95     | 1895-96     | 1896-97     | 1897-98     | 1898-99     | 1899-1900   | 1900-01    |           |
|-------------------------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-----------|
| Rice                    | { acres . . .     | 49,525,300    | 50,002,241  | 49,396,747  | 48,021,462  | 52,205,468  | 52,682,050  | 51,969,635  | 48,932,49  |           |
|                         | { owt . . .       | 459,119,400   | 497,901,780 | 415,355,100 | 275,876,100 | 498,350,700 | 505,640,800 | 451,553,460 | 413,508,70 |           |
| Wheat                   | { acres . . .     | 28,716,735    | 28,421,851  | 24,071,320  | 20,579,727  | 24,537,775  | 25,370,078  | 18,687,782  | 23,864,55  |           |
|                         | { tons . . .      | 7,266,982     | 8,998,930   | 5,380,342   | 5,363,289   | 7,208,384   | 6,837,674   | 5,357,142   | 7,093,52   |           |
| Cotton                  | { acres . . .     | 15,404,156    | 14,959,103  | 14,515,662  | 14,643,495  | 13,683,437  | 14,602,892  | 11,884,576  | 14,231,15  |           |
|                         | { bales (a) . . . | 3,306,538     | 2,989,019   | 3,632,042   | 3,351,408   | 3,396,563   | 3,886,730   | 2,526,830   | 3,592,37   |           |
| Linseed                 | { acres           | { pure . . .  | 4,854,100   | 3,781,684   | 2,954,093   | 2,020,747   | 2,707,887   | 2,829,475   | 1,648,903  | 2,417,99  |
|                         |                   | { mixed . . . | 503,000     | 603,000     | 560,000     | 345,000     | 425,000     | 445,000     | 409,000    | 466,00    |
|                         | { tons            | { pure . . .  | 559,800     | 271,798     | 287,407     | 162,479     | 354,994     | 336,610     | 206,220    | 247,02    |
|                         |                   | { mixed . . . | 65,000      | 53,899      | 82,462      | 58,504      | 90,976      | 91,284      | 89,464     | 79,00     |
| Rape and mustard        | { acres           | { pure . . .  | 3,676,000   | 3,582,181   | 3,004,913   | 2,910,682   | 3,822,996   | 3,109,988   | 2,693,768  | 4,077,366 |
|                         |                   | { mixed . . . | 1,557,000   | 1,613,000   | 1,280,000   | 1,526,000   | 1,459,000   | 1,509,000   | 1,381,000  | 1,449,000 |
|                         | { tons            | { pure . . .  | 546,216     | 521,031     | 462,064     | 441,814     | 682,807     | 567,698     | 447,946    | 650,225   |
|                         |                   | { mixed . . . | 240,000     | 216,050     | 359,979     | 340,602     | 436,451     | 410,983     | 425,471    | 372,000   |
| Sesamum (til or jinjil) | { acres           | { pure . . .  | 2,619,240   | 3,000,969   | 3,171,472   | 3,369,198   | 3,662,109   | 3,530,625   | 3,316,067  | 4,052,491 |
|                         |                   | { mixed . . . | 509,000     | 448,000     | 560,000     | 672,000     | 584,000     | 713,000     | 517,000    | 622,000   |
|                         | { tons            | { pure . . .  | 222,809     | 277,933     | 282,129     | 250,958     | 355,817     | 348,118     | 213,256    | 72,856    |
|                         |                   | { mixed . . . | 50,000      | 40,000      | 55,000      | 45,000      | 60,000      | 70,000      | 60,000     | 75,000    |
| Jute (b)                | { acres . . .     | 2,222,600     | 2,264,300   | 2,242,700   | 2,196,600   | 2,151,600   | 1,624,400   | 1,961,800   | 2,093,400  |           |
|                         | { bales . . .     | 5,001,700     | 6,144,300   | 5,551,000   | 5,717,000   | 6,839,000   | 5,334,000   | 5,412,000   | 6,526,000  |           |
| Indigo                  | { acres . . .     | 1,552,008     | 1,688,042   | 1,414,002   | 1,608,901   | 1,339,099   | 1,010,318   | 1,026,900   | 990,375    |           |
|                         | { owt . . .       | 179,437       | 237,494     | 190,924     | 168,673     | 166,812     | 139,320     | 111,890     | 148,029    |           |
| Groundnut               | { acres . . .     | ...           | ...         | 243,400     | 306,026     | 214,803     | 217,814     | 173,946     | 294,408    |           |
|                         | { tons . . .      | ...           | ...         | ...         | ...         | 55,962      | 70,561      | 9,250       | 28,631     |           |
| Sugarcane               | { acres . . .     | ...           | ...         | ...         | ...         | ...         | 2,485,681   | 2,541,470   | 2,404,156  |           |
|                         | { tons . . .      | ...           | ...         | ...         | ...         | ...         | 2,076,234   | 1,860,005   | 2,276,748  |           |

(a) The yield in bales for all the years represents the quantities exported from India and consumed in the country in and outside mills, as the reported estimates of yield fall short of the total of net exports and consumption. (See page 19)

(b) See footnotes on page 29 regarding the acreage and yield of jute

## IN EACH YEAR FROM 1893-94 TO 1907-08

| 1901-02     | 1902-03     | 1903-04     | 1904-05     | 1905-06     | 1906-07     | 1907-08     |           |                          |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|--------------------------|
| 48,511,190  | 51,842,390  | 49,461,465  | 51,586,900  | 54,428,600  | 54,157,650  | 51,098,500  | acres     | Rice                     |
| 384,294,100 | 469,484,800 | 439,280,700 | 448,461,100 | 433,138,300 | 427,743,800 | 387,300,200 | cwt       |                          |
| 23,446,161  | 23,395,277  | 28,413,743  | 28,470,200  | 26,357,400  | 29,212,500  | 22,661,900  | acres     | Wheat                    |
| 6,090,524   | 7,971,446   | 9,641,145   | 7,582,040   | 8,570,140   | 8,491,700   | 6,136,400   | tons      |                          |
| 14,506,295  | 16,581,046  | 18,025,000  | 19,918,000  | 21,072,000  | 22,341,000  | 21,074,000  | acres     | Cotton                   |
| 4,054,588   | 4,540,217   | 4,269,367   | 4,454,254   | 4,685,751   | 5,361,655   | 4,479,443   | bales (a) |                          |
| 2,546,674   | 2,592,237   | 3,609,079   | 3,747,400   | 2,711,800   | 3,110,200   | 1,813,100   | pure      | Linseed                  |
| 498,000     | 621,000     | 592,000     | 647,000     | 567,000     | 633,000     | 269,000     | mixed     |                          |
| 251,808     | 359,568     | 466,832     | 298,400     | 265,200     | 312,200     | 193,300     | pure      |                          |
| 100,113     | 122,000     | 105,000     | 49,000      | 88,000      | 113,000     | 30,000      | mixed     |                          |
| 8,082,662   | 8,421,883   | 8,583,445   | 8,640,000   | 4,002,800   | 4,183,100   | 3,274,700   | pure      | Rape and mustard         |
| 1,461,000   | 2,335,000   | 2,429,000   | 2,509,000   | 2,026,000   | 2,210,000   | 1,870,000   | mixed     |                          |
| 525,035     | 521,926     | 623,206     | 540,400     | 563,600     | 629,100     | 461,900     | pure      |                          |
| 430,617     | 516,000     | 542,000     | 336,000     | 398,000     | 424,000     | 217,000     | mixed     |                          |
| 3,711,711   | 4,435,648   | 4,838,164   | 4,178,700   | 3,913,800   | 3,864,900   | 3,758,900   | pure      | Sesamum (til or jinjili) |
| 611,000     | 717,000     | 747,000     | 600,000     | 700,000     | 775,000     | 900,000     | mixed     |                          |
| 96,210      | 13,587      | 539,478     | 300,400     | 344,800     | 451,000     | 241,600     | pure      |                          |
| 60,000      | 60,000      | 70,000      | 35,000      | 45,000      | 90,000      | 30,000      | mixed     |                          |
| 2,263,800   | 2,142,700   | 2,275,050   | 2,899,700   | 3,128,300   | 3,482,900   | 3,915,200   | acres     | Jute (b)                 |
| 7,438,000   | 6,577,000   | 7,241,000   | 7,400,000   | 8,140,900   | 9,206,400   | 9,667,400   | bales     |                          |
| 791,190     | 645,511     | 706,634     | 476,900     | 383,600     | 421,200     | 371,300     | acres     | Indigo                   |
| 112,819     | 79,207      | 102,802     | 58,900      | 48,200      | 65,700      | 51,400      | cwt       |                          |
| 424,222     | 491,155     | 471,193     | 459,700     | 435,900     | 622,000     | 668,600     | acres     | Groundnut (c)            |
| 63,298      | 61,854      | 94,419      | 214,900     | 211,200     | 273,760     | 259,100     | tons      |                          |
| 2,316,391   | 2,207,829   | 2,114,592   | 2,244,800   | 2,111,000   | 2,351,800   | 2,622,400   | acres     | Sugarcane                |
| 2,022,476   | 1,906,784   | 1,871,986   | 2,169,000   | 1,725,500   | 2,205,300   | 2,054,700   | tons      |                          |

(c) The figures of yield for years previous to 1904-05 relate to Bombay only  
 Note.—The figures for 1907-08 are subject to revision

## RICE

[The figures in cwt. represent the outturn of clean rice]

| PROVINCE                        | acres      | cwt         | Character of season  |
|---------------------------------|------------|-------------|--|
| <i>Bengal (a)</i>               |            |             |  |
| 1893-94 . . .                   | 37,886,500 | 374,227,800 | Favourable for winter but less unfavourable for autumn rice      |
| 1894-95 . . .                   | 38,839,500 | 416,857,200 | Favourable throughout  |
| 1895-96 . . .                   | 37,447,600 | 317,514,600 | Rainfall insufficient during the latter part of the season       |
| 1896-97 . . .                   | 36,177,400 | 179,637,400 | Very unfavourable. Extensive failure of crop with famine         |
| 1897-98 . . .                   | 39,549,500 | 398,142,000 | Favourable   |
| 1898-99 . . .                   | 39,605,400 | 405,842,900 | Favourable   |
| 1899-1900 . . .                 | 39,490,500 | 357,956,360 | Unfavourable for autumn, but better for winter rice              |
| 1900-01 . . .                   | 36,013,900 | 311,508,600 | Not favourable owing to ill distributed rainfall                 |
| 1901-02 . . .                   | 35,094,800 | 272,201,900 | Unfavourable particularly for the winter crop                    |
| 1902-03 . . .                   | 37,553,700 | 358,977,300 | Not unfavourable on the whole                                    |
| 1903-04 . . .                   | 34,931,500 | 316,669,700 | Not favourable owing to deficient rainfall                       |
| 1904-05 . . .                   | 38,355,200 | 347,229,100 | Rainfall unseasonable and ill distributed                        |
| 1905-06 . . .                   | 25,150,600 | 227,967,500 | Crop damaged by heavy rain and floods in places                  |
| 1906-07 . . .                   | 24,516,000 | 195,545,900 | Unfavourable owing to unseasonable rainfall and floods           |
| 1907-08 . . .                   | 24,473,200 | 140,161,100 | Unfavourable. Rainfall unseasonable and ill distributed          |
| <i>Eastern Bengal and Assam</i> |            |             |  |
| 1905-06 . . .                   | 15,960,200 | 101,397,600 | Crop damaged by heavy rain and consequent floods                 |
| 1906-07 . . .                   | 15,723,500 | 119,835,800 | Unfavourable for autumn but favourable for winter crop           |
| 1907-08 . . .                   | 15,056,300 | 130,138,000 | Very favourable for autumn but less so for winter crop           |
| <i>Madras (b)</i>               |            |             |  |
| 1893-94 . . .                   | 6,710,200  | 37,017,600  | Favourable at first, but late rains injured crop in places       |
| 1894-95 . . .                   | 6,569,400  | 35,662,600  | Rainfall partial and insufficient                                |
| 1895-96 . . .                   | 6,881,000  | 56,359,500  | Generally favourable, though crop affected in places by floods   |
| 1896-97 . . .                   | 6,620,000  | 48,359,700  | Unfavourable in northern but better in southern districts        |
| 1897-98 . . .                   | 6,935,200  | 47,991,700  | Crop affected by failure of north east monsoon                   |
| 1898-99 . . .                   | 7,166,000  | 54,946,700  | Rain deficient in northern and excessive in southern districts   |
| 1899-1900 . . .                 | 6,429,000  | 39,437,100  | Favourable at first, but latterly unfavourable in most districts |
| 1900-01 . . .                   | 6,591,600  | 49,023,100  | Not unfavourable on the whole                                    |
| 1901-02 . . .                   | 6,858,200  | 51,490,200  | Favourable   |
| 1902-03 . . .                   | 7,734,800  | 57,485,500  | Favourable   |
| 1903-04 . . .                   | 7,768,300  | 58,200,000  | Favourable   |
| 1904-05 . . .                   | 6,322,700  | 40,497,000  | Unfavourable owing to failure of rains                           |
| 1905-06 . . .                   | 6,604,400  | 45,833,200  | Not unfavourable   |
| 1906-07 . . .                   | 6,944,400  | 50,438,200  | Rainfall seasonable  |
| 1907-08 . . .                   | 7,276,800  | 52,261,100  | Water supply not quite sufficient, but crop fair                 |

(a) Includes Eastern Bengal up to 1904-05  
 (b) 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

Note.—The figures for 1907-08 are subject to revision

## RICE—continued

[The figures in cwt. represent the outturn of clean rice]

| PROVINCE           | acres      | cwt         | Character of season   |
|--------------------|------------|-------------|---|
| <i>Lower Burma</i> |            |             |   |
| 1893-94 . . .      | 4,928,600  | 47,874,000  | Favourable  |
| 1894-95 . . .      | 4,793,341  | 45,381,980  | Rainfall insufficient   |
| 1895-96 . . .      | 5,068,147  | 41,481,000  | Late rains unequally distributed                                |
| 1896-97 . . .      | 5,224,062  | 47,679,000  | Favourable  |
| 1897-98 . . .      | 5,720,766  | 52,217,000  | Uniformly favourable  |
| 1898-99 . . .      | 5,910,650  | 41,851,000  | Rain failed towards end of season, causing some injury          |
| 1899-1900 . . .    | 6,050,135  | 54,160,000  | Good  |
| 1900-01 . . .      | 6,328,993  | 52,975,000  | Not unfavourable  |
| 1901-02 . . .      | 6,558,190  | 60,602,000  | Favourable  |
| 1902-03 . . .      | 6,553,890  | 53,022,000  | Favourable, though floods caused damage in places               |
| 1903-04 . . .      | 6,761,665  | 64,411,000  | Very favourable   |
| 1904-05 . . .      | 6,909,000  | 60,735,000  | Rainfall seasonable, but crop affected by floods and high winds |
| 1905-06 . . .      | 6,713,400  | 57,940,000  | Generally favourable except for damage by floods in places      |
| 1906-07 . . .      | 6,973,700  | 61,924,000  | Favourable on the whole   |
| 1907-08 . . .      | 7,292,200  | 64,740,000  | Rainfall late but ample and well distributed                    |
| <i>Total</i>       |            |             |   |
| 1893-94 . . .      | 49,525,300 | 459,119,400 | Favourable generally  |
| 1894-95 . . .      | 50,002,241 | 497,901,780 | Favourable on the whole   |
| 1895-96 . . .      | 49,396,747 | 415,355,100 | Not very favourable owing to ill distributed rainfall           |
| 1896-97 . . .      | 48,021,462 | 275,676,100 | Unfavourable except in Burma                                    |
| 1897-98 . . .      | 52,205,466 | 498,350,700 | Favourable generally  |
| 1898-99 . . .      | 52,682,050 | 505,640,600 | Favourable on the whole   |
| 1899-1900 . . .    | 51,969,635 | 451,553,460 | Not very favourable   |
| 1900-01 . . .      | 48,932,493 | 413,506,700 | Not favourable  |
| 1901-02 . . .      | 48,511,190 | 384,294,100 | Unfavourable except in Madras and Burma                         |
| 1902-03 . . .      | 51,842,390 | 469,484,800 | Favourable on the whole   |
| 1903-04 . . .      | 49,461,465 | 439,280,700 | On the whole not unfavourable                                   |
| 1904-05 . . .      | 51,586,900 | 448,461,100 | Not very favourable   |
| 1905-06 . . .      | 54,428,600 | 433,138,300 | Crop damaged by heavy rain and floods in many places            |
| 1906-07 . . .      | 54,157,600 | 427,743,600 | Not very favourable   |
| 1907-08 . . .      | 54,098,500 | 387,800,200 | Not favourable  |

Note.—The figures for 1907-08 are subject to revision

## WHEAT

| PROVINCE                  | acres     | tons      | Character of season  |
|---------------------------|-----------|-----------|--|
| <i>Panjab</i>             |           |           |  |
| 1893-94 . . . .           | 8,265,200 | 2,560,341 | Very favourable, though crop injured by rust in places                       |
| 1894-95 . . . .           | 8,051,800 | 2,395,353 | Winter rain sufficient and harvest excellent                                 |
| 1895-96 . . . .           | 6,893,400 | 1,753,766 | Very unfavourable for dry crop owing to deficient rain                       |
| 1896-97 . . . .           | 6,584,300 | 1,872,066 | Sowings restricted owing to weak monsoon but winter rains copious            |
| 1897-98 . . . .           | 8,013,800 | 2,358,975 | Favourable, but late crop damaged at harvest time                            |
| 1898-99 . . . .           | 7,729,200 | 1,977,777 | Not favourable. Outturn affected by deficient rain, rust, insects            |
| 1899-1900 . . . .         | 6,366,500 | 1,823,182 | Monsoon rains scanty, but winter rains beneficial                            |
| 1900-01 . . . .           | 8,766,400 | 2,940,603 | Very favourable, except for damage by rust and excessive rain                |
| 1901-02 . . . .           | 7,227,100 | 1,846,332 | Unfavourable owing to early cessation of monsoon and failure of winter rains |
| 1902-03 . . . .           | 6,995,200 | 2,314,714 | Favourable, except for damage by drought in the middle of the season         |
| 1903-04 . . . .           | 7,765,700 | 3,075,161 | Distinctly favourable  |
| 1904-05 . . . .           | 7,712,100 | 2,855,300 | Favourable   |
| 1905-06 . . . .           | 8,572,100 | 3,510,300 | Very favourable  |
| 1906-07 . . . .           | 9,100,100 | 3,266,900 | Favourable, except for local damage by excessive rain, rust and hail-storms  |
| 1907-08(a) . . . .        | 8,268,500 | 2,405,400 | Unsatisfactory. Monsoon ceased early. Winter rains late and scanty           |
| <i>N.-W. Frontier (b)</i> |           |           |  |
| 1901-02 . . . .           | 796,500   | 159,279   | Unusual drought throughout season  |
| 1902-03 . . . .           | 822,900   | 234,594   | Favourable on the whole  |
| 1903-04 . . . .           | 994,062   | 302,094   | Very favourable  |
| 1904-05 . . . .           | 882,200   | 267,600   | Favourable   |
| 1905-06 . . . .           | 1,024,800 | 279,700   | Favourable on the whole  |
| 1906-07 . . . .           | 1,146,400 | 305,200   | Favourable on the whole  |
| 1907-08 . . . .           | 977,700   | 213,200   | Restricted sowings; but late rains beneficial                                |
| <i>United Provinces</i>   |           |           |  |
| 1893-94 . . . .           | 6,674,889 | 1,854,895 | Generally favourable, except for damage by high winds and rust               |
| 1894-95 . . . .           | 6,333,688 | 1,469,996 | Rain excessive. Crop injured by high winds and cloudy weather                |
| 1895-96 . . . .           | 5,177,261 | 1,591,294 | Rain deficient throughout season   |
| 1896-97 . . . .           | 4,931,710 | 1,850,914 | Autumn rain irregular and scanty. Winter rain well-distributed               |
| 1897-98 . . . .           | 5,985,146 | 2,249,633 | Favourable generally   |
| 1898-99 . . . .           | 6,348,688 | 2,277,414 | Favourable on the whole  |
| 1899-1900 . . . .         | 6,202,826 | 2,410,052 | Rainfall deficient at first but favourable later                             |
| 1900-01 . . . .           | 6,790,440 | 2,384,605 | Favourable, except for damage by cloudy weather and rust                     |
| 1901-02 . . . .           | 6,461,729 | 2,401,940 | Rainfall late and deficient  |
| 1902-03 . . . .           | 6,909,549 | 2,972,497 | Favourable on the whole  |
| 1903-04 . . . .           | 7,788,753 | 3,230,018 | Remarkably good  |
| 1904-05 . . . .           | 7,706,500 | 1,997,000 | Favourable at the beginning but disastrous afterwards                        |
| 1905-06 . . . .           | 6,478,900 | 2,428,700 | Favourable for irrigated crop  |
| 1906-07 . . . .           | 7,044,000 | 2,164,500 | Favourable at first, but unfavourable afterwards                             |
| 1907-08 . . . .           | 4,406,600 | 1,674,700 | Unfavourable on the whole  |
| <i>Central Provinces</i>  |           |           |  |
| 1893-94 . . . .           | 3,936,000 | 575,000   | Fair on the whole  |
| 1894-95 . . . .           | 3,393,348 | 502,275   | Crop suffered from heavy rain and fungoid diseases                           |
| 1895-96 . . . .           | 2,714,454 | 383,038   | Unfavourable   |
| 1896-97 . . . .           | 1,989,623 | 332,645   | Winter rains generally favourable  |
| 1897-98 . . . .           | 2,171,714 | 543,095   | Crop suffered somewhat from insufficient moisture                            |
| 1898-99 . . . .           | 2,505,299 | 456,169   | Not favourable   |
| 1899-1900 . . . .         | 1,633,070 | 201,803   | Very unfavourable  |
| 1900-01 . . . .           | 2,055,736 | 440,909   | Favourable except for damage by rust   |
| 1901-02 . . . .           | 2,620,133 | 571,040   | Unfavourable owing to insufficient rainfall                                  |
| 1902-03 . . . .           | 2,284,908 | 666,539   | Favourable except for damage by frost and insects                            |
| 1903-04 . . . .           | 2,921,161 | 751,338   | Favourable except at the end of the season                                   |
| 1904-05 . . . .           | 3,068,500 | 751,900   | Favourable except for damage by frost and rust in places                     |
| 1905-06 . . . .           | 3,019,500 | 773,700   | Favourable on the whole  |
| 1906-07 . . . .           | 3,274,100 | 831,500   | Favourable on the whole  |
| 1907-08 . . . .           | 2,470,600 | 466,300   | Unfavourable owing to deficiency of moisture                                 |

(a) Including Native States

(b) Constituted in 1901 out of the Panjab

Note.—The figures for 1907-08 are subject to revision

## WHEAT—continued

| PROVINCE                                    | acres     | tons    | Character of season  |
|---|-----------|---------|--|
| <i>Bengal (a)</i>                           |           |         |  |
| 1893-94 . . . . .                           | 1,461,000 | 459,000 | Rainfall excessive at first but deficient afterwards             |
| 1894-95 . . . . .                           | 1,413,000 | 686,800 | Crop suffered somewhat from drought                              |
| 1895-96 . . . . .                           | 1,427,400 | 315,600 | Autumn rains ceased early and winter rains failed                |
| 1896-97 . . . . .                           | 1,341,700 | 396,400 | Unfavourable at first, but slightly better afterwards            |
| 1897-98 . . . . .                           | 1,569,500 | 592,600 | Favourable   |
| 1898-99 . . . . .                           | 1,582,500 | 656,400 | Uniformly favourable   |
| 1899-1900 . . . . .                         | 1,550,300 | 572,700 | Not favourable on the whole                                      |
| 1900-01 . . . . .                           | 1,498,700 | 472,600 | Unfavourable   |
| 1901-02 . . . . .                           | 1,408,300 | 391,500 | Unfavourable owing to failure of rains                           |
| 1902-03 . . . . .                           | 1,417,000 | 485,900 | Unfavourable on the whole  |
| 1903-04 . . . . .                           | 1,508,600 | 527,800 | Generally favourable   |
| 1904-05 . . . . .                           | 1,324,900 | 433,200 | Unfavourable on the whole  |
| 1905-06 . . . . .                           | 1,243,300 | 396,600 | Crop seriously damaged by continuous rain and hailstorms         |
| 1906-07 . . . . .                           | 1,402,600 | 388,700 | Unfavourable   |
| 1907-08 . . . . .                           | 1,003,100 | 299,200 | Very unfavourable  |
| <i>Eastern Bengal</i>                       |           |         |  |
| 1901-05 . . . . .                           | 180,700   | 62,000  | On the whole not favourable                                      |
| 1905-06 . . . . .                           | 159,800   | 50,000  | Not favourable owing to ill-distributed rainfall                 |
| 1906-07 . . . . .                           | 135,900   | 31,900  | Unfavourable   |
| 1907-08 . . . . .                           | 92,700    | 21,400  | Very unfavourable  |
| <i>Bombay (including Native States) (b)</i> |           |         |  |
| 1893-94 . . . . .                           | 2,525,000 | 762,000 | Outturn satisfactory, though rain excessive in parts             |
| 1894-95 . . . . .                           | 2,678,665 | 744,961 | Favourable, though crop injured by cloudy weather rust and frost |
| 1895-96 . . . . .                           | 2,288,838 | 454,865 | Unfavourable owing to deficient moisture                         |
| 1896-97 . . . . .                           | 1,446,741 | 288,002 | Unfavourable. Rains failed                                       |
| 1897-98 . . . . .                           | 2,004,832 | 627,914 | Rain continuous and excessive                                    |
| 1898-99 . . . . .                           | 2,470,998 | 737,385 | Not favourable on unirrigated but good on irrigated land         |
| 1899-1900 . . . . .                         | 1,157,077 | 99,408  | Very unfavourable. Rains failed                                  |
| 1900-01 . . . . .                           | 1,433,810 | 293,479 | Unfavourable owing to want of rain                               |
| 1901-02 . . . . .                           | 1,510,459 | 179,034 | Unfavourable owing to deficient rainfall. Damage by rats         |
| 1902-03 . . . . .                           | 1,797,215 | 532,601 | Favourable on the whole  |
| 1903-04 . . . . .                           | 2,174,076 | 560,279 | Fairly good on the whole   |
| 1904-05 . . . . .                           | 2,260,900 | 356,600 | Not favourable owing to deficient rain, cold and frost           |
| 1905-06 . . . . .                           | 1,347,200 | 275,100 | Unfavourable owing to insufficiency of moisture                  |
| 1906-07 . . . . .                           | 1,662,900 | 338,200 | Not favourable on the whole                                      |
| 1907-08 . . . . .                           | 1,505,500 | 315,800 | Generally unfavourable owing to deficient water-supply           |
| <i>Berar</i>                                |           |         |  |
| 1893-94 . . . . .                           | 928,000   | 170,893 | Favourable on the whole  |
| 1894-95 . . . . .                           | 889,326   | 150,232 | Not very favourable owing to heavy rain                          |
| 1895-96 . . . . .                           | 747,025   | 103,084 | Unfavourable owing to early cessation of monsoon                 |
| 1896-97 . . . . .                           | 381,425   | 23,413  | Crop failed owing to want of rain                                |
| 1897-98 . . . . .                           | 390,378   | 41,983  | Unfavourable on the whole  |
| 1898-99 . . . . .                           | 436,362   | 53,571  | Not favourable on the whole                                      |
| 1899-1900 . . . . .                         | 17,910    | 414     | Disastrously bad owing to failure of rains                       |
| 1900-01 . . . . .                           | 243,554   | 29,900  | Unfavourable on the whole  |
| 1901-02 . . . . .                           | 280,085   | 34,353  | Favourable, but crop damaged by rats                             |
| 1902-03 . . . . .                           | 216,955   | 34,625  | Favourable, but sowings restricted                               |
| 1903-04 . . . . .                           | 452,663   | 70,052  | Not very favourable owing to heavy rain and hailstorms           |
| 1904-05 . . . . .                           | 428,600   | 80,000  | Favourable on the whole  |
| 1905-06 . . . . .                           | 424,300   | 60,700  | Not very favourable owing to deficient monsoon                   |
| 1906-07 . . . . .                           | 440,300   | 72,600  | Favourable on the whole  |
| 1907-08 . . . . .                           | 286,900   | 33,500  | Not favourable owing to deficiency of moisture                   |

(a) Includes Eastern Bengal up to 1903-04

(b) Includes the State of Baroda also

Note.—The figures for 1907-08 are subject to revision



## WHEAT—continued

| PROVINCE                              | acres     | tons    | Character of season  |
|---------------------------------------|-----------|---------|--|
| <i>Sind (including Native States)</i> |           |         |  |
| 1893-94 . . . . .                     | 531,000   | 161,000 | Inundation insufficient                                    |
| 1894-95 . . . . .                     | 673,251   | 215,361 | Favourable   |
| 1895-96 . . . . .                     | 315,559   | 71,683  | Unfavourable   |
| 1896-97 . . . . .                     | 406,752   | 116,470 | Not unfavourable on the whole                              |
| 1897-98 . . . . .                     | 591,621   | 177,160 | Inundation seasonable and sufficient                       |
| 1898-99 . . . . .                     | 869,706   | 81,231  | Decidedly bad owing to insufficient inundation             |
| 1899-1900 . . . . .                   | 364,522   | 68,226  | Unfavourable   |
| 1900-01 . . . . .                     | 479,487   | 123,160 | Generally good   |
| 1901-02 . . . . .                     | 534,004   | 109,009 | Fairly good  |
| 1902-03 . . . . .                     | 331,608   | 75,987  | Unfavourable owing to poor inundation                      |
| 1903-04 . . . . .                     | 586,895   | 202,171 | Favourable   |
| 1904-05 . . . . .                     | 522,700   | 126,100 | Not very favourable owing to low inundation and frost      |
| 1905-06 . . . . .                     | 623,100   | 196,200 | Favourable on the whole                                    |
| 1906-07 . . . . .                     | 672,300   | 186,300 | Favourable, but crop suffered in places from rain and hail |
| 1907-08 . . . . .                     | 431,500   | 108,200 | Not favourable owing to low inundation and frost           |
| <i>Rajputana</i>                      |           |         |  |
| 1893-94 . . . . .                     | 1,646,000 | 389,000 | } Not reported   |
| 1894-95 . . . . .                     | 1,529,146 | 368,168 |  |
| 1895-96 . . . . .                     | 1,306,868 | 315,573 | } Rainfall deficient                                       |
| 1896-97 . . . . .                     | 1,374,346 | 223,932 |  |
| 1897-98 . . . . .                     | 1,302,233 | 307,062 | } Not reported   |
| 1898-99 . . . . .                     | 1,196,014 | 276,388 |  |
| 1899-1900 . . . . .                   | 360,733   | 79,289  | } Not favourable   |
| 1900-01 . . . . .                     | 713,290   | 170,682 |  |
| 1901-02 . . . . .                     | 541,834   | 103,869 | Unfavourable   |
| 1902-03 . . . . .                     | 818,399   | 190,841 | Fairly good  |
| 1903-04 . . . . .                     | 1,125,277 | 297,162 | Favourable   |
| 1904-05 . . . . .                     | 1,023,800 | 189,000 | Not favourable   |
| 1905-06 . . . . .                     | 665,600   | 136,600 | Not very favourable  |
| 1906-07 . . . . .                     | 842,400   | 181,600 | Favourable   |
| 1907-08 . . . . .                     | 608,800   | 118,500 | Unfavourable owing to want of moisture                     |
| <i>Central India</i>                  |           |         |  |
| 1893-94 (a) . . . . .                 | 1,537,143 | 227,819 | } Not reported   |
| 1894-95 . . . . .                     | 2,042,531 | 396,567 |  |
| 1895-96 . . . . .                     | 1,740,808 | 290,745 |  |
| 1896-97 . . . . .                     | 1,366,269 | 179,949 |  |
| 1897-98 . . . . .                     | 1,501,013 | 279,492 |  |
| 1898-99 . . . . .                     | 1,613,851 | 287,749 |  |
| 1899-1900 . . . . .                   | 692,950   | 100,276 |  |
| 1900-01 . . . . .                     | 1,244,330 | 220,116 |  |
| 1901-02 . . . . .                     | 1,459,116 | 255,027 |  |
| 1902-03 . . . . .                     | 1,182,298 | 408,843 |  |
| 1903-04 . . . . .                     | 1,956,069 | 523,855 |  |
| 1904-05 . . . . .                     | 2,227,400 | 473,200 |  |
| 1905-06 . . . . .                     | 1,852,100 | 420,600 |  |
| 1906-07 . . . . .                     | 2,447,500 | 614,600 |  |
| 1907-08 . . . . .                     | 1,679,700 | 322,600 |  |

(a) Incomplete

Note.—The figures for 1907-08 are subject to revision

## WHEAT—concluded

| PROVINCE             | acres      | tons      | Character of season   |
|----------------------|------------|-----------|---|
| <i>Hyderabad (a)</i> |            |           |   |
| 1893-94 . . . . .    | 1,162,503  | 100,234   | Not reported  |
| 1894-95 . . . . .    | 1,412,562  | 69,413    | Not favourable owing to heavy rain late in the season             |
| 1895-96 . . . . .    | 1,454,451  | 85,331    | Not reported  |
| 1896-97 . . . . .    | 772,990    | 18,585    | Unfavourable  |
| 1897-98 . . . . .    | 1,003,175  | 30,189    | Not very unfavourable   |
| 1898-99 . . . . .    | 1,113,431  | 33,098    | Favourable, but crop damaged by rats                              |
| 1899-1900 . . . . .  | 339,138    | 1,538     | Disastrously bad owing to failure of rain                         |
| 1900-01 . . . . .    | 636,247    | 12,279    | Unfavourable owing to holding off of rain                         |
| 1901-02 . . . . .    | 603,182    | 38,853    | Not favourable, crop damaged by rats                              |
| 1902-03 . . . . .    | 614,092    | 53,724    | Favourable, but sowings restricted                                |
| 1903-04 . . . . .    | 1,134,769  | 100,535   | Favourable  |
| 1904-05 . . . . .    | 1,126,600  | 89,700    | Not favourable owing to deficient winter rains                    |
| 1905-06 . . . . .    | 984,500    | 41,800    | Unfavourable owing to want of late rains                          |
| 1906-07 . . . . .    | 1,039,500  | 109,000   | Favourable  |
| 1907-08 . . . . .    | 932,900    | 67,200    | Unfavourable owing to insufficient rainfall                       |
| <i>Mysore</i>        |            |           |   |
| 1893-94 . . . . .    | (b)        | (b)       | } Not reported  |
| 1894-95 . . . . .    | 4,534      | 304       |   |
| 1895-96 . . . . .    | 5,456      | 363       |   |
| 1896-97 . . . . .    | 3,871      | 413       |   |
| 1897-98 . . . . .    | 4,363      | 331       |   |
| 1898-99 . . . . .    | 4,029      | 492       |   |
| 1899-1900 . . . . .  | 2,758      | 254       |   |
| 1900-01 . . . . .    | 2,556      | 197       |   |
| 1901-02 . . . . .    | 3,714      | 256       |   |
| 1902-03 . . . . .    | 5,123      | 531       |   |
| 1903-04 . . . . .    | 5,718      | 630       |   |
| 1904-05 . . . . .    | 5,300      | 440       |   |
| 1905-06 . . . . .    | 2,400      | 140       |   |
| 1906-07 . . . . .    | 4,500      | 700       |   |
| 1907-08 . . . . .    | 2,500      | 600       |   |
| <i>Total</i>         |            |           |   |
| 1893-94 . . . . .    | 28,716,735 | 7,268,982 | Not unfavourable on the whole                                     |
| 1894-95 . . . . .    | 28,421,851 | 6,998,930 | Not favourable owing to heavy rain at sowing time                 |
| 1895-96 . . . . .    | 24,071,320 | 5,380,342 | } Unfavourable  |
| 1896-97 . . . . .    | 20,579,727 | 5,363,289 |   |
| 1897-98 . . . . .    | 24,537,775 | 7,208,384 | Favourable on the whole   |
| 1898-99 . . . . .    | 25,370,078 | 6,837,674 | Not favourable on the whole                                       |
| 1899-1900 . . . . .  | 18,687,782 | 5,357,142 | Unfavourable on the whole   |
| 1900-01 . . . . .    | 23,864,550 | 7,093,529 | Not unfavourable on the whole                                     |
| 1901-02 . . . . .    | 23,446,161 | 6,090,524 | Unfavourable on the whole   |
| 1902-03 . . . . .    | 23,395,277 | 7,971,446 | Favourable on the whole   |
| 1903-04 . . . . .    | 28,413,743 | 9,641,145 | Exceptionally good  |
| 1904-05 . . . . .    | 28,470,200 | 7,582,040 | Not very favourable on the whole                                  |
| 1905-06 . . . . .    | 26,357,400 | 8,570,140 | Favourable on the whole   |
| 1906-07 . . . . .    | 29,212,500 | 8,491,700 | Favourable at first, but dull weather prevailed later             |
| 1907-08 . . . . .    | 22,661,900 | 6,136,400 | Disappointing. Crop injured by deficient rain, cold winds, frosts |

(a) The figures for the years previous to 1902-03 exclude *sagir* areas

(b) No information

Note.—The figures for 1907-08 are subject to revision

## COTTON

[The figures in bales represent the outturn of cleaned cotton, i.e., cotton with the seeds extracted]

| PROVINCE                                    | acres     | bales of 400 lb | Character of season  |
|---|-----------|-----------------|--|
| <i>Bombay (including Native States) (a)</i> |           |                 |  |
| 1893-94 . . . . .                           | 5,910,856 | 1,028,480       | Favourable, though crop affected by excessive rain                 |
| 1894-95 . . . . .                           | 5,292,717 | 880,240         | Not favourable owing to ill-distributed rainfall                   |
| 1895-96 . . . . .                           | 5,803,598 | 1,029,455       | Favourable on the whole  |
| 1896-97 . . . . .                           | 5,083,549 | 827,819         | Unfavourable on the whole, owing to drought                        |
| 1897-98 . . . . .                           | 4,751,108 | 948,514         | Not very favourable owing to damage from blight and locust         |
| 1898-99 . . . . .                           | 5,098,145 | 1,232,861       | Favourable on the whole  |
| 1899-1900 . . . . .                         | 3,095,206 | (b) 81,617      | Extremely unfavourable owing to failure of rains                   |
| 1900-01 . . . . .                           | 4,240,140 | 759,096         | Not favourable owing to deficiency of late rains                   |
| 1901-02 . . . . .                           | 4,894,796 | 567,886         | Unfavourable owing to insufficient rain                            |
| 1902-03 . . . . .                           | 4,786,657 | 943,827         | Favourable, though crop affected by excessive rain and cold places |
| 1903-04 . . . . .                           | 5,702,001 | 1,059,000       | Favourable on the whole  |
| 1904-05 . . . . .                           | 5,955,000 | 796,000         | Unfavourable owing to deficiency of moisture                       |
| 1905-06 . . . . .                           | 6,665,000 | 1,198,000       | Favourable at first, but not so afterwards                         |
| 1906-07 . . . . .                           | 7,883,000 | 1,762,000       | Favourable   |
| 1907-08 . . . . .                           | 6,580,000 | 960,000         | Not favourable owing to early cessation of monsoon                 |
| <i>Berar (c)</i>                            |           |                 |  |
| 1893-94 . . . . .                           | 2,184,800 | 291,597         | } Not favourable owing to excessive rain                           |
| 1894-95 . . . . .                           | 2,102,956 | 255,628         |  |
| 1895-96 . . . . .                           | 2,071,856 | 451,230         | Favourable on the whole  |
| 1896-97 . . . . .                           | 2,306,870 | 335,576         | Not favourable owing to failure of monsoon after August            |
| 1897-98 . . . . .                           | 2,150,329 | 439,980         | Favourable on the whole  |
| 1898-99 . . . . .                           | 2,476,300 | 617,223         | Outturn good though late rains failed                              |
| 1899-1900 . . . . .                         | 1,983,802 | 104,693         | Very unfavourable owing to failure of rains                        |
| 1900-01 . . . . .                           | 2,521,651 | 730,962         | Favourable on the whole  |
| 1901-02 . . . . .                           | 2,689,201 | 612,844         | Favourable, though crop injured by rats                            |
| 1902-03 . . . . .                           | 2,765,635 | 710,063         | Favourable, though crop damaged by heavy rain in November          |
| 1903-04 . . . . .                           | 2,551,000 | 488,000         | Not favourable owing to heavy rain.                                |
| 1904-05 . . . . .                           | 3,069,000 | 755,000         | Favourable on the whole  |
| 1905-06 . . . . .                           | 3,192,000 | 475,000         | Not favourable owing to ill-distributed rainfall                   |
| 1906-07 . . . . .                           | 3,289,000 | 553,000         | Crop injured by heavy and continuous rain                          |
| 1907-08 . . . . .                           | 3,071,000 | 371,000         | Unfavourable owing to want of moisture                             |
| <i>Madras (d)</i>                           |           |                 |  |
| 1893-94 . . . . .                           | 1,724,000 | 121,200         | Favourable at first, but unfavourable afterwards                   |
| 1894-95 . . . . .                           | 1,521,500 | 106,900         | Unfavourable owing mainly to want of timely rains                  |
| 1895-96 . . . . .                           | 1,623,900 | 120,524         | Favourable on the whole  |
| 1896-97 . . . . .                           | 1,395,400 | 104,655         | Not favourable owing to ill-distributed rainfall                   |
| 1897-98 . . . . .                           | 1,509,100 | 118,876         | Crop injured by blight or drought in places                        |
| 1898-99 . . . . .                           | 1,821,700 | 127,670         | Not very favourable  |
| 1899-1900 . . . . .                         | 1,882,700 | 101,440         | Unfavourable on the whole  |
| 1900-01 . . . . .                           | 1,373,800 | 113,320         | Not favourable on the whole  |
| 1901-02 . . . . .                           | 1,861,300 | 130,130         | Fair on the whole  |
| 1902-03 . . . . .                           | 1,580,900 | 167,169         | } Favourable   |
| 1903-04 . . . . .                           | 1,665,000 | 175,000         |  |
| 1904-05 . . . . .                           | 1,755,000 | 132,000         | } Not favourable owing to want of sufficient rain                  |
| 1905-06 . . . . .                           | 1,597,000 | 145,000         |  |
| 1906-07 . . . . .                           | 1,543,000 | 157,000         | Favourable   |
| 1907-08 . . . . .                           | 1,849,000 | 134,000         | Favourable   |

(a) Includes the State of Baroda also

(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 lower 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 twelve 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 represent the mill consumption for the year ending the 30th June and the exports for the year ending the 30th September, as the provincial estimates of the outturn were extremely defective

(d) The estimates for Madras up to 1901-07 relate only to *raiyawari* tracts; but since that year estimates for certain *semindari* and whole *tanam* villages and Native States have also been included

Note.—The figures for 1907-08 are subject to revision

## COTTON—continued

[The figures in bales represent the outturn of cleaned cotton, i.e., cotton with the seeds extracted]

| PROVINCE                    | acres     | bales of 400 lb | Character of season  |
|-----------------------------|-----------|-----------------|--|
| <i>Hyderabad (a)</i>        |           |                 |  |
| 1893-94 . . . . .           | 1,456,283 | 147,199         | Not unfavourable   |
| 1894-95 . . . . .           | 1,611,912 | 117,277         | Crop suffered from excessive rain                              |
| 1895-96 . . . . .           | 1,492,763 | 173,293         | Not reported   |
| 1896-97 . . . . .           | 1,558,296 | 137,152         | } Not favourable   |
| 1897-98 . . . . .           | 1,653,669 | 163,449         |  |
| 1898-99 . . . . .           | 1,738,379 | 222,302         | Not very favourable  |
| 1899-1900 . . . . .         | 1,292,329 | 91,975          | Very unfavourable owing to drought                             |
| 1900-01 . . . . .           | 1,698,838 | 288,570         | Not very favourable owing to sudden cessation of winter rains  |
| 1901-02 . . . . .           | 1,689,139 | 300,301         | Favourable   |
| 1902-03 . . . . .           | 2,359,130 | 280,267         | Not favourable owing to cloudy weather and untimely rain       |
| 1903-04 . . . . .           | 2,661,000 | 275,000         | Not favourable owing to heavy rain and strong winds            |
| 1904-05 . . . . .           | 2,731,000 | 330,000         | Favourable   |
| 1905-06 . . . . .           | 2,537,000 | 303,000         | Crop suffered through failure of late rains                    |
| 1906-07 . . . . .           | 3,460,000 | 449,000         | Favourable on the whole  |
| 1907-08 . . . . .           | 3,100,000 | 310,000         | Unfavourable for early crop, but better for late crop          |
| <i>United Provinces (b)</i> |           |                 |  |
| 1893-94 . . . . .           | 1,069,307 | 296,643         | Crop injured by heavy rain and strong winds                    |
| 1894-95 . . . . .           | 1,214,747 | 198,833         | Unfavourable owing to heavy rain and stormy winds              |
| 1895-96 . . . . .           | 1,060,905 | 280,414         | Favourable on the whole  |
| 1896-97 . . . . .           | 1,150,089 | 260,521         | Crop injured by drought and dry west winds                     |
| 1897-98 . . . . .           | 919,671   | 226,478         | Not unfavourable on the whole                                  |
| 1898-99 . . . . .           | 933,395   | 261,304         | Favourable on the whole  |
| 1899-1900 . . . . .         | 996,673   | 227,787         | Unfavourable on the whole                                      |
| 1900-01 . . . . .           | 1,046,176 | 294,169         | Favourable on the whole  |
| 1901-02 . . . . .           | 1,153,870 | 368,638         | Favourable though rains were late                              |
| 1902-03 . . . . .           | 1,239,131 | 327,728         | Crop suffered from deficient rain, high winds and insects      |
| 1903-04 . . . . .           | 841,000   | 184,000         | Not favourable owing to excessive rain and winds               |
| 1904-05 . . . . .           | 1,201,000 | 368,000         | Favourable on the whole  |
| 1905-06 . . . . .           | 1,372,000 | 394,000         | Crop suffered from deficient rainfall                          |
| 1906-07 . . . . .           | 1,489,000 | 639,000         | Very favourable  |
| 1907-08 . . . . .           | 1,461,000 | 268,000         | Not favourable owing to early cessation of monsoon             |
| <i>Panjab (b)</i>           |           |                 |  |
| 1893-94 . . . . .           | 1,124,500 | 231,997         | } Favourable on the whole                                      |
| 1894-95 . . . . .           | 1,161,200 | 241,667         |  |
| 1895-96 . . . . .           | 1,176,700 | 204,806         | Rainfall generally insufficient and untimely                   |
| 1896-97 . . . . .           | 1,128,400 | 223,947         | Monsoon ceased early and irrigation inadequate                 |
| 1897-98 . . . . .           | 788,600   | 166,707         | Not favourable owing to insufficient rain                      |
| 1898-99 . . . . .           | 988,400   | 138,926         | Unfavourable owing to scanty and irregular rainfall            |
| 1899-1900 . . . . .         | 1,215,400 | 205,203         | Unfavourable owing to the holding off of rain                  |
| 1900-01 . . . . .           | 1,080,200 | 219,646         | Crop suffered from heavy rainfall and insects                  |
| 1901-02 . . . . .           | 1,026,800 | 213,466         | Not very favourable on the whole                               |
| 1902-03 . . . . .           | 1,193,600 | 239,005         | Rainfall deficient   |
| 1903-04 . . . . .           | 1,205,100 | 261,241         | Fairly satisfactory on the whole                               |
| 1904-05 . . . . .           | 1,698,000 | 409,000         | Favourable   |
| 1905-06 . . . . .           | 2,020,000 | 192,000         | Disastrous owing to injury by green fly, drought and boll-worm |
| 1906-07 . . . . .           | 1,413,000 | 357,000         | Favourable on the whole  |
| 1907-08 . . . . .           | 1,475,000 | 357,000         | Not very favourable owing to abrupt cessation of monsoon       |
| <i>N.-W. Frontier (c)</i>   |           |                 |  |
| 1901-02 . . . . .           | 30,400    | 6,759           | Not favourable on the whole                                    |
| 1902-03 . . . . .           | 27,400    | 7,420           | } Favourable on the whole                                      |
| 1903-04 . . . . .           | 35,900    | 8,424           |  |
| 1904-05 . . . . .           | 49,000    | 10,000          | } Not unfavourable on the whole                                |
| 1905-06 . . . . .           | 59,000    | 13,000          |  |
| 1906-07 . . . . .           | 61,000    | 13,000          |  |
| 1907-08 . . . . .           | 48,000    | 9,000           | Not favourable on the whole                                    |

(a) The figures for the years previous to 1902-03 exclude *jagir* areas

(b) Including Native States from 1904-05

(c) Constituted in 1901 out of the Panjab

Note.—The figures for 1907-08 are subject to revision

## COTTON—continued

[The figures in bales represent the outturn of cleaned cotton, i.e., cotton with the seeds extracted]

| PROVINCE                              | acres     | bales of 400 lb | Character of season                              |
|---------------------------------------|-----------|-----------------|--|
| <i>Central Provinces</i>              |           |                 |  |
| 1893-94                               | 690,700   | 79,600          | } Not favourable owing to excessive rain         |
| 1894-95                               | 601,984   | 81,196          |  |
| 1895-96                               | 541,087   | 105,940         | Favourable                                       |
| 1896-97                               | 718,188   | 86,950          | Not favourable owing to scanty rainfall          |
| 1897-98                               | 668,847   | 118,994         | Crop injured by excessive rain                   |
| 1898-99                               | 668,522   | 165,169         | Not favourable owing to ill-distributed rainfall |
| 1899-1900                             | 712,836   | 117,050         | Very unfavourable owing to exceptional drought   |
| 1900-01                               | 1,004,812 | 268,958         | } Not favourable owing to irregular rainfall     |
| 1901-02                               | 981,342   | 267,737         |  |
| 1902-03                               | 1,130,431 | 260,798         | } Not favourable on the whole                    |
| 1903-04                               | 1,293,000 | 274,000         |  |
| 1904-05                               | 1,484,000 | 474,000         | Favourable                                       |
| 1905-06                               | 1,657,000 | 343,000         | Not favourable owing to ill-distributed rain     |
| 1906-07                               | 1,389,000 | 328,000         | Crop damaged by heavy rain and floods in places  |
| 1907-08                               | 1,884,000 | 224,000         | Unfavourable owing to want of moisture           |
| <i>Rajputana</i>                      |           |                 |  |
| 1893-94 (c)                           | 617,600   | 171,700         | } Not reported                                   |
| 1894-95                               | 619,362   | 184,896         |  |
| 1895-96                               | 514,854   | 150,862         | } Not reported                                   |
| 1896-97                               | 549,238   | 145,492         |  |
| 1897-98                               | 542,435   | 137,669         | } Unfavourable on the whole                      |
| 1898-99                               | 478,604   | 117,743         |  |
| 1899-1900                             | 325,033   | 44,161          | Very unfavourable owing to failure of rains      |
| 1900-01                               | 369,884   | 104,390         | } Not reported                                   |
| 1901-02                               | 281,934   | 87,858          |  |
| 1902-03                               | 456,503   | 164,142         | Favourable on the whole                          |
| 1903-04                               | 895,000   | 113,000         | Not favourable owing to high winds and locusts   |
| 1904-05                               | 469,000   | 186,000         | Favourable on the whole                          |
| 1905-06                               | 291,000   | 61,000          | Unfavourable                                     |
| 1906-07                               | 428,000   | 201,000         | Favourable                                       |
| 1907-08                               | 438,000   | 102,000         | Not favourable                                   |
| <i>Central India</i>                  |           |                 |  |
| 1893-94 (d)                           | 295,800   | 31,900          | } Not reported                                   |
| 1894-95                               | 512,936   | 38,000          |  |
| 1895-96                               | 420,239   | 49,500          | } Not reported                                   |
| 1896-97                               | 523,683   | 45,900          |  |
| 1897-98                               | 417,456   | 60,800          | } Favourable on the whole                        |
| 1898-99                               | 471,408   | 46,800          |  |
| 1899-1900                             | 479,565   | 23,100          | Very unfavourable owing to failure of rains      |
| 1900-01                               | 542,673   | 63,900          | } Favourable on the whole                        |
| 1901-02                               | 529,094   | 72,200          |  |
| 1902-03                               | 591,006   | 115,878         | } Favourable on the whole                        |
| 1903-04                               | 772,000   | 125,000         |  |
| 1904-05                               | 846,000   | 136,900         | Favourable                                       |
| 1905-06                               | 979,000   | 130,000         | Unfavourable except at sowing time               |
| 1906-07                               | 1,132,000 | 222,000         | Favourable                                       |
| 1907-08                               | 990,000   | 54,000          | Unfavourable                                     |
| <i>Sind (including Native States)</i> |           |                 |  |
| 1893-94                               | 115,810   | 75,081          | Favourable on the whole                          |
| 1894-95                               | 113,589   | 55,141          | Crop damaged by floods and blight                |
| 1895-96                               | 111,855   | 51,018          | Water-supply deficient                           |
| 1896-97                               | 123,706   | 56,694          | Fairly good                                      |
| 1897-98                               | 108,227   | 40,176          | Not favourable                                   |
| 1898-99                               | 92,312    | 39,712          | Not favourable owing to frost                    |
| 1899-1900                             | 92,069    | 20,507          | Unfavourable owing to deficient water supply     |
| 1900-01                               | 84,560    | 43,031          | } Not unfavourable on the whole                  |
| 1901-02                               | 129,409   | 72,553          |  |
| 1902-03                               | 195,486   | 110,808         | } Favourable on the whole                        |
| 1903-04                               | 209,000   | 115,000         |  |
| 1904-05                               | 221,000   | 97,000          | Not unfavourable on the whole                    |
| 1905-06                               | 283,000   | 84,000          | Favourable, but crop damaged by boll-worm        |
| 1906-07                               | 250,000   | 154,700         | Favourable on the whole                          |
| 1907-08                               | 232,000   | 121,000         | Not favourable owing to deficient water-supply   |

(a) Exclusive of zamindari areas in Raipur, Bilaspur, and Drug

(b) Represent exports and consumption of the years ending the 30th September as the reported estimates of the yield were imperfect

(c) Exclusive of Tonk

(d) Exclusive of the greater part of the Bhopal Agency

Note.—The figures for 1907-08 are subject to revision

## COTTON—concluded

[The figures in bales represent the outturn of cleaned cotton, *s.e.*, cotton with the seeds extracted]

| PROVINCE                        | acres      | bales of 400 lb                             | Character of season  |
|---------------------------------|------------|---|--|
| <i>Burma</i>                    |            |   |  |
| 1898-99 . . . . .               | 167,821    | —   |  |
| 1899-1900 . . . . .             | 148,563    | 32,900                                      | Not unfavourable, though crop damaged by heavy rain          |
| 1900-01 . . . . .               | 141,718    | 21,077                                      | Heavy rain injured the crop                                  |
| 1901-02 . . . . .               | 130,810    | 13,125                                      | Unfavourable owing to want of rain                           |
| 1902-03 . . . . .               | 148,867    | 21,114                                      | Fair on the whole  |
| 1903-04 . . . . .               | 165,000    | 27,000                                      | Not unfavourable on the whole                                |
| 1904-05 . . . . .               | 189,000    | 39,000                                      | } Favourable on the whole                                    |
| 1905-06 . . . . .               | 183,000    | 35,000                                      |  |
| 1906-07 . . . . .               | 187,000    | 36,000                                      | Fairly favourable on the whole                               |
| 1907-08 . . . . .               | 189,000    | 28,000                                      | Unfavourable owing to deficient rainfall                     |
| <i>Bengal (a)</i>               |            |   |  |
| 1893-94 . . . . .               | 215,000    | 59,428                                      | Not favourable owing to ill-distributed rain                 |
| 1894-95 . . . . .               | 208,200    | 63,871                                      | Favourable on the whole                                      |
| 1895-96 . . . . .               | 197,900    | 53,358                                      | Favourable except at sowing time                             |
| 1896-97 . . . . .               | 157,100    | 40,184                                      | Unfavourable owing to deficient rainfall                     |
| 1897-98 . . . . .               | 174,000    | 52,590                                      | Favourable on the whole                                      |
| 1898-99 . . . . .               | 167,900    | 45,560                                      | Unfavourable owing to uneven character of monsoon            |
| 1899-1900 . . . . .             | 160,600    | 39,705                                      | Unfavourable owing to inadequate rain                        |
| 1900-01 . . . . .               | 127,700    | 41,262                                      | } Unfavourable for early but fairly favourable for late crop |
| 1901-02 . . . . .               | 118,500    | 32,094                                      |  |
| 1902-03 . . . . .               | 100,300    | 29,866                                      | } Unfavourable owing to deficient rain                       |
| 1903-04 . . . . .               | 96,000     | 28,000                                      |  |
| 1904-05 . . . . .               | 78,000     | 20,000                                      | Not very favourable on the whole                             |
| 1905-06 . . . . .               | 71,000     | 16,000                                      | Not favourable owing to ill-distributed rain                 |
| 1906-07 . . . . .               | 76,000     | 16,000                                      | } Crop suffered from excessive rain and floods               |
| 1907-08 . . . . .               | 74,000     | 14,000                                      |  |
| <i>Eastern Bengal and Assam</i> |            |   |  |
| 1903-04 (b) . . . . .           | 31,000     | 12,000                                      | Not very favourable on the whole                             |
| 1904-05 . . . . .               | 50,000     | 17,000                                      | Generally favourable   |
| 1905-06 . . . . .               | 61,000     | 17,000                                      | Crop injured by excessive rain                               |
| 1906-07 . . . . .               | 76,000     | 17,000                                      | Not favourable on the whole                                  |
| 1907-08 . . . . .               | 78,000     | 24,000                                      | Very favourable  |
| <i>Mysore</i>                   |            |   |  |
| 1903-04 . . . . .               | 70,000     | 13,000                                      | } Not reported   |
| 1904-05 . . . . .               | 71,000     | 5,000                                       |  |
| 1905-06 . . . . .               | 76,000     | 5,000                                       | } Generally favourable                                       |
| 1906-07 . . . . .               | 89,000     | 10,000                                      |  |
| 1907-08 . . . . .               | 84,000     | 7,000                                       |  |
| <i>Ajmer-Merwara</i>            |            |   |  |
| 1903-04 . . . . .               | 33,000     | 5,000                                       | Unfavourable owing to early cessation of rains               |
| 1904-05 . . . . .               | 52,000     | 18,000                                      | Favourable   |
| 1905-06 . . . . .               | 29,000     | 5,000                                       | Unfavourable owing to high winds                             |
| 1906-07 . . . . .               | 40,000     | 19,000                                      | Favourable   |
| 1907-08 . . . . .               | 41,000     | 11,000                                      | Not favourable on the whole                                  |
| <i>Total</i>                    |            |   |  |
|                                 | Acres      | Outturn as shown above (in bales of 400 lb) | Net exports and consumption (in bales of 400 lb) (c)         |
| 1893-94 . . . . .               | 15,404,156 | 2,529,825                                   | 3,306,538  |
| 1894-95 . . . . .               | 14,959,103 | 2,223,029                                   | 2,989,019  |
| 1895-96 . . . . .               | 14,515,662 | 2,670,388                                   | 3,632,042  |
| 1896-97 . . . . .               | 14,643,495 | 2,264,890                                   | 3,351,403  |
| 1897-98 . . . . .               | 13,683,437 | 2,473,039                                   | 3,396,563  |
| 1898-99 . . . . .               | 14,602,892 | 3,015,289                                   | 3,866,730  |
| 1899-1900 . . . . .             | 11,884,576 | 1,090,168                                   | 2,526,880  |
| 1900-01 . . . . .               | 14,231,150 | 2,953,381                                   | 3,592,372  |
| 1901-02 . . . . .               | 14,506,295 | 2,744,591                                   | 4,054,538  |
| 1902-03 . . . . .               | 16,581,046 | 3,867,030                                   | 4,540,217  |
| 1903-04 . . . . .               | 18,025,000 | 3,160,665                                   | 4,269,367  |
| 1904-05 . . . . .               | 19,918,000 | 3,791,000                                   | 4,454,254  |
| 1905-06 . . . . .               | 21,072,000 | 3,416,000                                   | 4,685,751  |
| 1906-07 . . . . .               | 22,929,000 | 4,933,700                                   | 5,361,655  |
| 1907-08 . . . . .               | 21,074,000 | 3,044,000                                   | 4,479,443  |

(a) Includes Eastern Bengal up to 1903-04

(b) Assam only

(c) For the years up to 1906-07 the exports as well as the mill consumption are for the year ending the 30th September. For 1907-08 they are for the year ending the 30th June. No reliable information exists as to the annual consumption outside the mills, but in 1907 it was settled in consultation with the Bombay Cotton Trade Association to adopt the conventional estimate of 750,000 bales. This figure has been included in the figure for each year shown in this column

Note.—The figures for 1907-08 are subject to revision

## LINSEED

| PROVINCE                 | acres     | tons    | Character of season  |
|--------------------------|-----------|---------|--|
| <i>United Provinces</i>  |           |         |  |
| 1893-94 (a) { Pure       | 742,000   | 101,000 | Crop suffered from excessive rainfall and rust             |
| { Mixed                  | 503,000   | 65,000  |  |
| 1894-95 { Pure           | 753,857   | 69,165  | Crop injured by excessive rain and fungoid disease         |
| { Mixed                  | 603,000   | 53,899  |  |
| 1895-96 { Pure           | 403,585   | 55,798  | Unfavourable owing to scanty rain                          |
| { Mixed                  | 560,000   | 82,462  |  |
| 1896-97 { Pure           | 235,166   | 40,036  | Not favourable owing to drought                            |
| { Mixed                  | 345,000   | 58,504  |  |
| 1897-98 { Pure           | 519,461   | 110,619 | Favourable   |
| { Mixed                  | 425,000   | 90,976  |  |
| 1898-99 { Pure           | 438,728   | 87,854  | Favourable on the whole                                    |
| { Mixed                  | 445,000   | 91,284  |  |
| 1899-1900 { Pure         | 857,880   | 73,267  | Not unfavourable on the whole                              |
| { Mixed                  | 409,000   | 89,464  |  |
| 1900-01 { Pure           | 448,208   | 75,780  | Crop affected by cloudy weather and fungoid disease        |
| { Mixed                  | 466,000   | 79,000  |  |
| 1901-02 { Pure           | 373,092   | 75,876  | Not very favourable owing to scanty winter rains           |
| { Mixed                  | 498,000   | 100,113 |  |
| 1902-03 { Pure           | 536,044   | 114,595 | Favourable on the whole                                    |
| { Mixed                  | 621,000   | 122,000 |  |
| 1903-04 { Pure           | 782,302   | 144,738 | Favourable   |
| { Mixed                  | 592,000   | 105,000 |  |
| 1904-05 { Pure           | 634,500   | 51,800  | Unfavourable owing to frost and rust                       |
| { Mixed                  | 647,000   | 49,000  |  |
| 1905-06 { Pure           | 210,800   | 32,800  | Not favourable owing to insufficient moisture              |
| { Mixed                  | 567,000   | 88,000  |  |
| 1906-07 { Pure           | 315,000   | 56,000  | Not unfavourable on the whole                              |
| { Mixed                  | 633,000   | 113,000 |  |
| 1907-08 { Pure           | 57,500    | 6,500   | Very unfavourable owing to prolonged drought               |
| { Mixed                  | 269,000   | 30,000  |  |
| <i>Bengal (b)</i>        |           |         |  |
| 1893-94                  | 777,100   | 131,800 | Rain excessive at first and deficient afterwards           |
| 1894-95                  | 732,900   | 120,900 |  |
| 1895-96                  | 712,700   | 95,600  | Not favourable owing to scanty rain                        |
| 1896-97                  | 587,800   | 84,900  | Not favourable owing to drought                            |
| 1897-98                  | 662,800   | 125,400 | Favourable   |
| 1898-99                  | 677,900   | 144,700 |  |
| 1899-1900                | 653,200   | 124,700 | Rainfall ill-distributed                                   |
| 1900-01                  | 806,700   | 133,400 | Rainfall irregular and ill-distributed                     |
| 1901-02                  | 783,800   | 110,600 | Unfavourable owing to deficient rainfall                   |
| 1902-03                  | 864,200   | 160,000 | Rainfall ill-distributed                                   |
| 1903-04                  | 922,800   | 168,800 | Favourable on the whole                                    |
| 1904-05                  | 730,400   | 96,800  | Unfavourable owing to excessive rain, hail, and frost      |
| 1905-06                  | 726,500   | 110,500 | Crop suffered from untimely rain                           |
| 1906-07                  | 717,700   | 101,200 | Not very favourable owing to excessive rain and hailstorms |
| 1907-08                  | 503,800   | 74,400  | Unfavourable owing to failure of monsoon                   |
| <i>Eastern Bengal</i>    |           |         |  |
| 1904-05                  | 99,000    | 17,500  | Not unfavourable on the whole                              |
| 1905-06                  | 103,000   | 17,300  | Rainfall ill-distributed                                   |
| 1906-07                  | 87,900    | 13,400  | Not unfavourable on the whole                              |
| 1907-08                  | 85,600    | 11,500  | Not favourable on the whole owing to drought               |
| <i>Central Provinces</i> |           |         |  |
| 1893-94                  | 1,788,000 | 132,000 | Favourable though crop affected by heavy rain and rust     |
| 1894-95                  | 1,498,672 | 42,532  | Unfavourable owing to untimely rain and cloudy weather     |
| 1895-96                  | 730,750   | 45,253  | Unfavourable owing to scanty rainfall                      |
| 1896-97                  | 527,421   | 19,391  | Very unfavourable owing to drought                         |
| 1897-98                  | 683,728   | 69,783  | Generally not favourable                                   |
| 1898-99                  | 838,255   | 58,955  | Crop damaged by drought, frost, and cloudy weather         |
| 1899-1900                | 306,933   | 4,319   | Very unfavourable owing to want of moisture                |
| 1900-01                  | 495,165   | 20,652  | Generally unfavourable                                     |
| 1901-02                  | 609,596   | 32,786  | Unfavourable owing to failure of winter rains              |
| 1902-03                  | 494,137   | 42,352  | Not favourable owing to drought, frost and insects         |
| 1903-04                  | 808,566   | 77,567  | Not favourable owing to absence of winter rains            |
| 1904-05                  | 825,700   | 67,300  | Unfavourable owing to frost, cloudy weather, and storms    |
| 1905-06                  | 815,400   | 69,600  | Crop damaged by frost and hailstorms                       |
| 1906-07                  | 1,061,200 | 97,700  | Crop suffered through cloudy weather, frost, rust, hail    |
| 1907-08                  | 498,800   | 22,300  | Very unfavourable on the whole                             |

(a) "Pure" means seed sown by itself; "mixed" means 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) Includes Eastern Bengal up to 1903-04

Note.—The figures for 1907-08 are subject to revision

## I.INSEED—continued

| PROVINCE                                    | acres            | tons      | Character of season  |
|---|------------------|-----------|--|
| <i>Hyderabad (a)</i>                        |                  |           |  |
| 1896-97                                     | 324,455          | 11,855    | Unfavourable on the whole  |
| 1897-98                                     | 438,030          | 15,141    | Not favourable on the whole  |
| 1898-99                                     | 426,045          | 13,443    | Not favourable on the whole  |
| 1899-1900                                   | 171,970          | 1,506     | Very unfavourable  |
| 1900-01                                     | 371,983          | 8,774     | Unfavourable   |
| 1901-02                                     | 370,376          | 18,403    | Not favourable on the whole  |
| 1902-03                                     | 378,559          | 22,343    | Favourable   |
| 1903-04                                     | 529,214          | 25,290    | Crop affected by severe cold and insects                           |
| 1904-05                                     | 775,500          | 33,500    | Favourable though crop affected by failure of late rain            |
| 1905-06                                     | 604,500          | 24,700    | Unfavourable   |
| 1906-07                                     | 664,300          | 28,600    | Favourable on the whole  |
| 1907-08                                     | 484,800          | 13,600    | Unfavourable owing to insufficient rainfall                        |
| <i>Berar (b)</i>                            |                  |           |  |
| 1893-94                                     | 578,000          | 29,000    | Crop suffered from untimely rain and rust                          |
| 1894-95                                     | 385,563          | 13,893    | Unfavourable owing to cloudy weather, storms, and rust             |
| 1895-96                                     | 500,650          | 27,497    | Not unfavourable on the whole                                      |
| 1896-97                                     | 188,142          | 4,576     | Very unfavourable  |
| 1897-98                                     | 180,472          | 10,405    | Not favourable on the whole  |
| 1898-99                                     | 171,085          | 7,683     | Crop suffered through failure of late rains                        |
| 1899-1900                                   | 21,564           | —         | Crop withered for want of moisture                                 |
| 1900-01                                     | 154,716          | 5,382     | Unfavourable for want of sufficient rain                           |
| 1901-02                                     | 185,798          | 9,606     | Favourable, but crop injured by rats                               |
| 1902-03                                     | 120,753          | 7,289     | Fair on the whole  |
| 1903-04                                     | 184,823          | 18,417    | Not favourable owing to absence of winter rains                    |
| 1904-05                                     | 134,000          | 13,200    | Not favourable owing to deficient winter rains and hail            |
| 1905-06                                     | 96,700           | 7,700     | Unfavourable owing to frost, and hailstorms                        |
| 1906-07                                     | 97,000           | 8,500     | Crop suffered through cloudy weather, frost, rust, and hail        |
| 1907-08                                     | 56,100           | 1,700     | Very unfavourable  |
| <i>Bombay (including Native States) (c)</i> |                  |           |  |
| 1893-94                                     | 402,000          | 52,000    | Favourable   |
| 1894-95                                     | 410,892          | 25,308    | Unfavourable owing to excessive moisture and blight                |
| 1895-96                                     | 606,428          | 63,261    | Not unfavourable on the whole                                      |
| 1896-97                                     | 157,763          | 2,221     | Very unfavourable owing to drought                                 |
| 1897-98                                     | 223,396          | 23,646    | Not favourable   |
| 1898-99                                     | 277,462          | 23,975    | Unfavourable on the whole  |
| 1899-1900                                   | 137,356          | 428       | Disastrously bad owing to failure of rains                         |
| 1900-01                                     | 141,221          | 3,036     | Very unfavourable owing to scanty rain                             |
| 1901-02                                     | 224,002          | 4,537     | Very unfavourable owing to want of moisture                        |
| 1902-03                                     | 198,544          | 12,989    | Unfavourable on the whole  |
| 1903-04                                     | 331,374          | 31,322    | Favourable on the whole  |
| 1904-05                                     | 548,000          | 18,500    | Crop suffered from cold, frost, and deficient moisture             |
| 1905-06                                     | 154,800          | 2,600     | Unfavourable owing to want of moisture                             |
| 1906-07                                     | 167,100          | 6,800     | Not favourable owing to ill-distributed rain                       |
| 1907-08                                     | 126,500          | 3,200     | Unfavourable owing to want of moisture                             |
| <i>Rest of India</i>                        |                  |           |  |
| 1893-94                                     | 567,000          | 114,000   |  |
| <i>Total</i>                                |                  |           |  |
| 1893-94                                     | { Pure 4,854,100 | { 559,800 | Favourable, though crop suffered from heavy rain                   |
|   | { Mixed 508,000  | { 65,000  |  |
| 1894-95                                     | { Pure 3,781,684 | { 271,798 | Unfavourable. Rainfall excessive, producing rust and disease       |
|   | { Mixed 603,000  | { 53,889  |  |
| 1895-96                                     | { Pure 2,954,093 | { 287,407 | Unfavourable. Rainfall scanty                                      |
|   | { Mixed 560,000  | { 82,462  |  |
| 1896-97                                     | { Pure 2,020,747 | { 162,479 | Very unfavourable, owing to drought                                |
|   | { Mixed 345,000  | { 53,504  |  |
| 1897-98                                     | { Pure 2,707,887 | { 354,994 | Favourable in northern India, but not in western and central India |
|   | { Mixed 425,000  | { 90,976  |  |
| 1898-99                                     | { Pure 2,329,475 | { 336,610 | Very unfavourable on the whole                                     |
|   | { Mixed 445,000  | { 91,284  |  |
| 1899-1900                                   | { Pure 1,648,908 | { 206,220 | Unfavourable. Rainfall scanty                                      |
|   | { Mixed 409,000  | { 89,464  |  |
| 1900-01                                     | { Pure 2,417,991 | { 247,024 | Unfavourable. Rainfall deficient                                   |
|   | { Mixed 466,000  | { 79,000  |  |
| 1901-02                                     | { Pure 2,546,604 | { 251,808 | Not unfavourable on the whole                                      |
|   | { Mixed 498,000  | { 100,113 |  |
| 1902-03                                     | { Pure 2,592,237 | { 359,568 | Favourable in northern and western India                           |
|   | { Mixed 621,000  | { 122,000 |  |
| 1903-04                                     | { Pure 3,809,079 | { 466,932 | Unfavourable owing to excessive rain, rust and frost               |
|   | { Mixed 592,000  | { 105,000 |  |
| 1904-05                                     | { Pure 3,747,400 | { 298,400 | Unfavourable. Rain ill-distributed and untimely                    |
|   | { Mixed 647,000  | { 49,000  |  |
| 1905-06                                     | { Pure 2,711,800 | { 263,200 | Not favourable on the whole  |
|   | { Mixed 567,000  | { 85,000  |  |
| 1906-07                                     | { Pure 3,110,200 | { 312,200 | Very unfavourable owing to failure of the monsoon                  |
|   | { Mixed 633,000  | { 113,000 |  |
| 1907-08                                     | { Pure 1,813,100 | { 193,200 |  |
|   | { Mixed 269,000  | { 30,000  |  |

(a) The figures for the years previous to 1902-03 exclude *jagir* areas

(b) The estimates of yield for the years previous to 1903-04 are defective, being based on incorrect data

(c) Includes the State of Baroda also

Note.—The figures for 1907-08 are subject to revision



## RAPE AND MUSTARD

| PROVINCE                | acres             | tons    | Character of season                                       |
|-------------------------|-------------------|---------|---|
| <i>Bengal (a)</i>       |                   |         |   |
| 1893-94                 | 2,209,100         | 334,200 | Rain ill-distributed                                      |
| 1894-95                 | 2,221,600         | 343,700 | Crop suffered through absence of late rain                |
| 1895-96                 | 2,148,400         | 332,400 | Not unfavourable on the whole                             |
| 1896-97                 | 2,003,900         | 312,300 |   |
| 1897-98                 | 2,239,700         | 438,600 | Favourable  |
| 1898-99                 | 2,167,200         | 448,200 |   |
| 1899-1900               | 2,032,900         | 371,900 | Rainfall ill-distributed                                  |
| 1900-01                 | 2,043,200         | 337,800 |   |
| 1901-02                 | 1,922,400         | 372,900 | Rainfall generally deficient                              |
| 1902-03                 | 1,914,100         | 341,700 | Rainfall ill-distributed                                  |
| 1903-04                 | 1,973,900         | 365,500 | Favourable on the whole                                   |
| 1904-05                 | 782,700           | 125,900 | Unfavourable on the whole owing to hail, frost, and rain  |
| 1905-06                 | 767,200           | 118,400 | Unfavourable owing to untimely rain                       |
| 1906-07                 | 818,100           | 138,800 | Not very favourable                                       |
| 1907-08                 | 611,200           | 88,500  | Unfavourable on the whole                                 |
| <i>Eastern Bengal</i>   |                   |         |   |
| 1904-05                 | 1,194,800         | 234,400 | Crop affected by hail and frost                           |
| 1905-06                 | 1,094,500         | 168,900 | Not favourable owing to ill-distributed rainfall          |
| 1906-07                 | 1,208,400         | 198,200 | Not unfavourable on the whole                             |
| 1907-08                 | 1,249,800         | 185,000 | Not very favourable on the whole                          |
| <i>Punjab</i>           |                   |         |   |
| 1893-94                 | 899,900           | 112,016 | Favourable, though crop injured by heavy rain and insects |
| 1894-95                 | 802,600           | 97,224  | Crop injured by excessive rain in many districts          |
| 1895-96                 | 475,100           | 50,602  | Unfavourable owing to scanty rain                         |
| 1896-97                 | 515,300           | 52,756  | Not favourable owing to drought                           |
| 1897-98                 | 1,112,300         | 142,115 | Favourable  |
| 1898-99                 | 582,600           | 56,041  | Unfavourable owing to insufficient rain and drought       |
| 1899-1900               | 397,500           | 26,761  | Very unfavourable owing to early cessation of monsoon     |
| 1900-01                 | 1,638,400         | 248,022 | Most favourable   |
| 1901-02                 | 665,800           | 64,361  | Unfavourable owing to failure of rains                    |
| 1902-03                 | 936,100           | 91,857  | Not favourable owing to failure of winter rains           |
| 1903-04                 | 1,038,900         | 159,236 | Favourable on the whole                                   |
| 1904-05                 | 1,210,800         | 119,300 | Not favourable owing to severe frosts                     |
| 1905-06                 | 1,614,200         | 183,000 | Not unfavourable on the whole                             |
| 1906-07                 | 1,402,400         | 172,300 | Crop injured by excessive late rain                       |
| 1907-08                 | 842,800           | 105,400 | Not favourable owing to drought                           |
| <i>Assam</i>            |                   |         |   |
| 1893-94                 | 168,000           | 34,000  | Favourable  |
| 1894-95                 | 134,399           | 20,249  | Unfavourable  |
| 1895-96                 | 182,640           | 36,388  | Not unfavourable on the whole                             |
| 1896-97                 | 178,408           | 38,853  |   |
| 1897-98                 | 167,268           | 31,878  | Not very favourable owing to deficient winter rains       |
| 1898-99                 | 134,856           | 21,391  | Unfavourable owing to late subsidence of floods           |
| 1899-1900               | 119,110           | 21,789  | Unfavourable at first, but favourable afterwards          |
| 1900-01                 | 126,309           | 21,140  | Unfavourable owing to absence of rain                     |
| 1901-02                 | 157,671           | 23,294  | Favourable, though crop suffered from heavy rain          |
| 1902-03                 | 174,719           | 27,905  | Unfavourable on the whole                                 |
| 1903-04                 | 172,039           | 29,098  | Not quite favourable owing to want of late rain           |
| 1904-05                 | 157,700           | 28,000  | Not unfavourable  |
| 1905-06                 | 164,400           | 30,200  | Not favourable on the whole                               |
| 1906-07                 | 222,000           | 43,800  | Generally favourable                                      |
| 1907-08                 | 228,600           | 43,400  | Not very favourable on the whole                          |
| <i>United Provinces</i> |                   |         |   |
| 1893-94 (b)             | { Pure 131,000    | 21,000  | Not favourable owing to excessive rain and rust           |
|                         | { Mixed 1,557,000 | 240,000 |   |
| 1894-95                 | { Pure 109,347    | 16,497  | Crop injured by excessive moisture and fungoid disease    |
|                         | { Mixed 1,613,000 | 216,050 |   |
| 1895-96                 | { Pure 95,678     | 26,554  | Not unfavourable on the whole                             |
|                         | { Mixed 1,290,000 | 359,979 |   |
| 1896-97                 | { Pure 83,372     | 16,524  | Favourable  |
|                         | { Mixed 1,528,000 | 340,602 |   |
| 1897-98                 | { Pure 88,822     | 28,417  | Favourable  |
|                         | { Mixed 1,459,000 | 436,451 |   |
| 1898-99                 | { Pure 92,679     | 22,884  | Favourable though crop injured by frost in places         |
|                         | { Mixed 1,509,000 | 410,983 |   |
| 1899-1900               | { Pure 76,180     | 21,186  | Not very favourable on the whole                          |
|                         | { Mixed 1,381,000 | 425,471 |   |
| 1900-01                 | { Pure 94,130     | 24,060  | Crop affected by excessive rain and fungoid diseases      |
|                         | { Mixed 1,449,000 | 372,000 |   |
| 1901-02                 | { Pure 120,436    | 36,841  | Favourable on the whole                                   |
|                         | { Mixed 1,461,000 | 430,617 |   |
| 1902-03                 | { Pure 140,296    | 31,320  | Favourable on the whole                                   |
|                         | { Mixed 2,335,000 | 516,000 |   |
| 1903-04                 | { Pure 131,926    | 29,643  | Unfavourable owing to frost and rust                      |
|                         | { Mixed 2,429,000 | 542,000 |   |
| 1904-05                 | { Pure 140,100    | 18,800  | Unfavourable owing to frost and rust                      |
|                         | { Mixed 2,509,000 | 336,000 |   |
| 1905-06                 | { Pure 154,700    | 30,000  | Crop suffered through insufficient moisture               |
|                         | { Mixed 2,028,000 | 398,000 |   |
| 1906-07                 | { Pure 153,400    | 30,000  | Crop affected by cloudy weather and fungoid diseases      |
|                         | { Mixed 2,210,000 | 424,000 |   |
| 1907-08                 | { Pure 96,800     | 11,000  | Very unfavourable owing to drought                        |
|                         | { Mixed 1,870,000 | 217,000 |   |

(a) Includes Eastern Bengal up to 1903-04

(b) "Pure" means seed sown by itself; "mixed" means 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

Note.—The figures for 1907-08 are subject to revision

RAPE AND MUSTARD - *continued*

| PROVINCE                                | acres     | tons    | Character of season   |
|---|-----------|---------|---|
| <i>Sind (including Native States)</i>   |           |         |   |
| 1893-94                                 | 111,000   | 17,000  | Crop suffered from deficient water supply, blight and frost |
| 1894-95                                 | 222,413   | 24,852  | Inundation favourable                                       |
| 1895-96                                 | 53,664    | 8,503   | Unfavourable owing to deficient water supply                |
| 1896-97                                 | 72,093    | 11,101  | Not favourable on the whole                                 |
| 1897-98                                 | 154,248   | 27,277  | Favourable on the whole                                     |
| 1898-99                                 | 70,766    | 8,601   | Unfavourable owing to low inundation and frost              |
| 1899-1900                               | 64,637    | 6,193   | Very unfavourable owing to failure of rains                 |
| 1900-01                                 | 119,596   | 12,304  | Not unfavourable on the whole                               |
| 1901-02                                 | 113,140   | 12,049  |   |
| 1902-03                                 | 78,606    | 7,813   | Not favourable owing to low inundation                      |
| 1903-04                                 | 85,525    | 16,550  | Favourable  |
| 1904-05                                 | 80,100    | 2,500   | Very unfavourable owing to low inundation, cold and frost   |
| 1905-06                                 | 64,200    | 11,500  | Favourable on the whole                                     |
| 1906-07                                 | 87,900    | 12,400  |   |
| 1907-03                                 | 61,100    | 6,200   | Unfavourable owing to deficient moisture and frost          |
| <i>N. W. Frontier (c)</i>               |           |         |   |
| 1901-02                                 | 73,700    | 8,723   | Most unfavourable owing to failure of winter rains          |
| 1902-03                                 | 110,900   | 13,151  | On the whole favourable                                     |
| 1903-04                                 | 130,231   | 17,127  | Favourable  |
| 1904-05                                 | 55,700    | 8,300   | Unfavourable at first, but favourable afterwards            |
| 1905-06                                 | 85,500    | 12,200  | Favourable  |
| 1906-07                                 | 218,800   | 19,400  |   |
| 1907-08                                 | 121,000   | 12,300  | Favourable on the whole                                     |
| <i>Bombay (including Native States)</i> |           |         |   |
| 1893-94                                 | 89,000    | 18,000  | Favourable  |
| 1894-95                                 | 91,822    | 18,509  |   |
| 1895-96                                 | 49,431    | 7,617   | Unfavourable owing to scanty rainfall                       |
| 1896-97                                 | 55,615    | 8,207   | Unfavourable owing to drought                               |
| 1897-98                                 | 56,830    | 14,380  | Favourable on the whole                                     |
| 1898-99                                 | 53,091    | 9,705   | Not favourable owing to insufficient rain                   |
| 1899-1900                               | 2,536     | 111     | Disastrous owing to failure of rain                         |
| 1900-01                                 | 39,134    | 6,613   | Fair on the whole   |
| 1901-02                                 | 17,438    | 1,721   | Very unfavourable owing to drought                          |
| 1902-03                                 | 54,625    | 7,891   | Fair on the whole   |
| 1903-04                                 | 36,007    | 5,786   | Not favourable owing to deficient late rains                |
| 1904-05                                 | 25,100    | 3,000   | Unfavourable owing to deficient water supply                |
| 1905-06                                 | 43,800    | 9,300   | Favourable  |
| 1906-07                                 | 61,400    | 14,300  |   |
| 1907-08                                 | 54,000    | 12,500  | Not unfavourable on the whole                               |
| <i>Hyderabad (b)</i>                    |           |         |   |
| 1896-97                                 | 1,994     | 73      | Unfavourable  |
| 1897-98                                 | 3,828     | 140     |   |
| 1898-99                                 | 8,796     | 286     | Not unfavourable  |
| 1899-1900                               | 905       | 6       | Very unfavourable   |
| 1900-01                                 | 16,597    | 236     | Not unfavourable  |
| 1901-02                                 | 12,077    | 146     | Unfavourable  |
| 1902-03                                 | 12,537    | 289     | Favourable on the whole                                     |
| 1903-04                                 | 14,917    | 266     |   |
| 1904-05                                 | 13,000    | 200     | Crop affected by failure of late rains                      |
| 1905-06                                 | 14,300    | 100     | Not favourable  |
| 1906-07                                 | 10,700    | 100     |   |
| 1907-08                                 | 9,500     | 200     |   |
| <i>Rest of India</i>                    |           |         |   |
| 1893-94                                 | 68,000    | 10,000  |   |
| <i>Total</i>                            |           |         |   |
| 1893-94                                 | 3,676,000 | 546,216 | Not unfavourable on the whole                               |
| { Pure                                  | 1,557,000 | 240,000 |   |
| { Mixed                                 | 3,582,181 | 521,031 | Not favourable on the whole                                 |
| 1894-95                                 | 1,613,000 | 216,050 |   |
| 1895-96                                 | 3,004,913 | 462,064 | Not favourable. Rainfall scanty                             |
| { Pure                                  | 1,290,000 | 359,979 |   |
| { Mixed                                 | 2,910,682 | 441,814 | Unfavourable owing to drought                               |
| 1896-97                                 | 1,526,000 | 340,602 |   |
| 1897-98                                 | 3,822,996 | 682,807 | Favourable on the whole                                     |
| { Pure                                  | 1,459,000 | 436,451 |   |
| { Mixed                                 | 3,109,988 | 567,698 | Not favourable on the whole                                 |
| 1898-99                                 | 1,509,000 | 410,983 |   |
| 1899-1900                               | 2,693,768 | 417,946 | Unfavourable. Rainfall deficient                            |
| { Pure                                  | 1,381,000 | 425,471 |   |
| { Mixed                                 | 4,077,366 | 650,225 | Favourable in north-western India, but not elsewhere        |
| 1900-01                                 | 1,442,000 | 372,000 |   |
| 1901-02                                 | 3,082,662 | 525,035 | Not favourable on the whole. Rainfall deficient             |
| { Pure                                  | 1,461,000 | 430,817 |   |
| { Mixed                                 | 3,421,863 | 521,926 | Not favourable on the whole. Rainfall ill-distributed       |
| 1902-03                                 | 2,335,000 | 516,000 |   |
| 1903-04                                 | 3,583,445 | 623,206 | Favourable  |
| { Pure                                  | 2,429,000 | 542,000 |   |
| { Mixed                                 | 3,640,000 | 540,400 | Not favourable owing to hail and frost                      |
| 1904-05                                 | 2,509,000 | 336,000 |   |
| 1905-06                                 | 4,002,800 | 563,600 | Not favourable on the whole                                 |
| { Pure                                  | 2,026,000 | 398,000 |   |
| { Mixed                                 | 4,183,100 | 629,100 | Fairly good on the whole                                    |
| 1906-07                                 | 2,210,000 | 424,000 |   |
| 1907-03                                 | 3,274,700 | 464,900 | Unfavourable owing to drought                               |
| { Pure                                  | 1,870,000 | 217,000 |   |

(a) Constituted in 1901 out of the Punjab  
 (b) The figures for the years previous to 1902-03 exclude *jagir* areas

Note.—The figures for 1907-03 are subject to revision

## SESAMUM (til or jinjili)

| PROVINCE                                    | acres     | tons    | Character of season                                    |
|---|-----------|---------|--|
| <i>Madras (a)</i>                           |           |         |  |
| 1893-94 . . . . .                           | 717,500   | 51,300  | Not favourable on the whole                            |
| 1894-95 . . . . .                           | 613,600   | 40,700  | Unfavourable on the whole                              |
| 1895-96 . . . . .                           | 824,700   | 54,700  | Not favourable owing to ill-distributed rain           |
| 1896-97 . . . . .                           | 562,800   | 48,100  | Not favourable   |
| 1897-98 . . . . .                           | 826,000   | 69,000  | Not favourable on the whole                            |
| 1898-99 . . . . .                           | 690,700   | 68,100  | Not very favourable on the whole                       |
| 1899-1900 . . . . .                         | 665,900   | 45,100  | Unfavourable   |
| 1900-01 . . . . .                           | 850,000   | 68,200  | Not favourable on the whole                            |
| 1901-02 . . . . .                           | 727,700   | 66,400  |  |
| 1902-03 . . . . .                           | 782,700   | 71,700  | Favourable on the whole                                |
| 1903-04 . . . . .                           | 855,700   | 78,600  |  |
| 1904-05 . . . . .                           | 674,200   | 55,100  | Rainfall insufficient                                  |
| 1905-06 . . . . .                           | 723,300   | 55,000  | Not unfavourable on the whole                          |
| 1906-07 . . . . .                           | 556,900   | 45,800  | Early rainfall insufficient                            |
| 1907-08 . . . . .                           | 590,400   | 48,200  | Not unfavourable on the whole                          |
| <i>Bombay (including Native States) (b)</i> |           |         |  |
| 1893-94 . . . . .                           | 668,600   | 78,900  | Not favourable owing to untimely rain                  |
| 1894-95 . . . . .                           | 754,072   | 100,438 | Rainfall unseasonable.                                 |
| 1895-96 . . . . .                           | 843,039   | 98,104  | Crop suffered from want of moisture                    |
| 1896-97 . . . . .                           | 770,553   | 65,600  | Crop suffered through early cessation of monsoon       |
| 1897-98 . . . . .                           | 681,905   | 103,136 | Favourable on the whole                                |
| 1898-99 . . . . .                           | 754,327   | 115,566 |  |
| 1899-1900 . . . . .                         | 303,148   | 6,186   | Extremely unfavourable owing to failure of rains       |
| 1900-01 . . . . .                           | 719,642   | 105,167 | Favourable   |
| 1901-02 . . . . .                           | 802,935   | 64,421  | Unfavourable. Late rains failed                        |
| 1902-03 . . . . .                           | 904,523   | 177,137 | Favourable   |
| 1903-04 . . . . .                           | 1,125,053 | 218,219 | Satisfactory   |
| 1904-05 . . . . .                           | 793,900   | 52,700  | Unfavourable owing to deficient rainfall               |
| 1905-06 . . . . .                           | 908,100   | 105,100 | Not favourable on the whole                            |
| 1906-07 . . . . .                           | 1,049,500 | 186,000 | Fairly satisfactory                                    |
| 1907-08 . . . . .                           | 914,300   | 59,900  | Unfavourable owing to deficient rain and disease       |
| <i>Central Provinces</i>                    |           |         |  |
| 1893-94 . . . . .                           | 534,700   | 31,300  | Not favourable owing to excessive rain                 |
| 1894-95 . . . . .                           | 520,099   | 27,714  |  |
| 1895-96 . . . . .                           | 569,407   | 45,243  | Favourable at first, but not afterwards                |
| 1896-97 . . . . .                           | 627,948   | 43,953  | Not favourable on the whole                            |
| 1897-98 . . . . .                           | 749,491   | 67,770  | Exceptionally favourable                               |
| 1898-99 . . . . .                           | 634,268   | 43,475  | Unfavourable owing to ill-distributed rainfall         |
| 1899-1900 . . . . .                         | 1,026,257 | 62,132  | Favourable at first, but not afterwards                |
| 1900-01 . . . . .                           | 983,260   | 82,138  |  |
| 1901-02 . . . . .                           | 710,641   | 39,020  | Unfavourable. Early rains excessive. Late rains failed |
| 1902-03 . . . . .                           | 1,075,057 | 96,610  | Favourable on the whole                                |
| 1903-04 . . . . .                           | 962,298   | 73,551  | Not very favourable owing to heavy rainfall            |
| 1904-05 . . . . .                           | 779,600   | 58,900  | Unfavourable. Rainfall irregular                       |
| 1905-06 . . . . .                           | 686,800   | 57,700  | Unfavourable. Crop injured by heavy rain and mists     |
| 1906-07 . . . . .                           | 717,700   | 60,700  | Crop damaged by heavy rain                             |
| 1907-08 . . . . .                           | 747,500   | 37,800  | Unfavourable owing to early cessation of rains         |

(a) The estimates for Madras up to 1906-07 relate only to *raiyatwari* villages; but since that year estimates for certain *somindari* and whole *inam* villages have also been included

(b) Includes the State of Baroda also

Note.—The figures for 1907-08 are subject to revision

## SESAMUM—continued

| PROVINCE                     | acres   | tons   | Character of season  |
|------------------------------|---------|--------|--|
| <i>Bengal (a)</i>            |         |        |  |
| 1894-95 . . . . .            | 356,200 | 43,400 | Not quite favourable   |
| 1895-96 . . . . .            | 368,900 | 36,000 |  |
| 1896-97 . . . . .            | 332,500 | 30,800 |  |
| 1897-98 . . . . .            | 367,500 | 49,900 | Favourable on the whole  |
| 1898-99 . . . . .            | 367,200 | 52,100 |  |
| 1899-1900 . . . . .          | 388,200 | 49,700 | Not favourable. Rainfall capricious and irregular                    |
| 1900-01 . . . . .            | 396,000 | 45,400 |  |
| 1901-02 . . . . .            | 411,100 | 54,900 | Crop suffered through drought  |
| 1902-03 . . . . .            | 384,800 | 45,000 | Not favourable on the whole  |
| 1903-04 . . . . .            | 428,300 | 58,000 | Favourable on the whole  |
| 1904-05 . . . . .            | 283,800 | 30,800 | Crop damaged by hail, frost and excessive rain                       |
| 1905-06 . . . . .            | 283,200 | 33,400 | Latterly favourable  |
| 1906-07 . . . . .            | 273,200 | 36,000 | Rainfall ill-distributed   |
| 1907-08 . . . . .            | 217,600 | 14,300 | Unfavourable owing to failure of rains                               |
| <i>Eastern Bengal</i>        |         |        |  |
| 1904-05 . . . . .            | 209,900 | 28,200 | Crop damaged by hail, and excessive rain                             |
| 1905-06 . . . . .            | 231,800 | 28,300 | Not favourable. Rain ill-distributed                                 |
| 1906-07 . . . . .            | 223,100 | 36,200 | At first favourable, but drought affected crop                       |
| 1907-08 . . . . .            | 223,600 | 32,200 | Crop affected by drought   |
| <i>United Provinces</i>      |         |        |  |
| 1893-94 (b) { Pure . . . . . | 200,800 | 19,700 | Favourable though crop affected by excessive rain                    |
| { Mixed . . . . .            | 509,000 | 50,000 |  |
| 1894-95 { Pure . . . . .     | 177,043 | 15,513 | Crop damaged by excessive rain                                       |
| { Mixed . . . . .            | 448,000 | 40,000 |  |
| 1895-96 { Pure . . . . .     | 148,833 | 14,554 | Crop suffered from scanty rainfall, insects and strong winds         |
| { Mixed . . . . .            | 560,000 | 55,000 |  |
| 1896-97 { Pure . . . . .     | 177,785 | 12,222 | Crop affected by early withdrawal of monsoon                         |
| { Mixed . . . . .            | 672,000 | 45,000 |  |
| 1897-98 { Pure . . . . .     | 147,817 | 14,994 | Favourable on the whole  |
| { Mixed . . . . .            | 584,000 | 60,000 |  |
| 1898-99 { Pure . . . . .     | 155,178 | 15,159 | Excessive late rain affected crop.                                   |
| { Mixed . . . . .            | 713,000 | 70,000 |  |
| 1899-1900 { Pure . . . . .   | 203,604 | 22,743 | Favourable on the whole  |
| { Mixed . . . . .            | 517,000 | 60,000 |  |
| 1900-01 { Pure . . . . .     | 238,154 | 28,431 | Favourable on the whole  |
| { Mixed . . . . .            | 622,000 | 75,000 |  |
| 1901-02 { Pure . . . . .     | 252,870 | 23,226 | Crop suffered through deficient late rain                            |
| { Mixed . . . . .            | 611,000 | 60,000 |  |
| 1902-03 { Pure . . . . .     | 316,150 | 35,279 | Favourable generally   |
| { Mixed . . . . .            | 717,000 | 80,000 |  |
| 1903-04 { Pure . . . . .     | 374,559 | 34,345 | Crop damaged by excessive rain and strong winds                      |
| { Mixed . . . . .            | 747,000 | 70,000 |  |
| 1904-05 { Pure . . . . .     | 304,100 | 13,900 | Unfavourable owing to excessive rain at first and drought afterwards |
| { Mixed . . . . .            | 600,000 | 35,000 |  |
| 1905-06 { Pure . . . . .     | 278,200 | 17,500 | Not favourable. Rainfall deficient                                   |
| { Mixed . . . . .            | 700,000 | 45,000 |  |
| 1906-07 { Pure . . . . .     | 309,200 | 36,200 | Favourable on the whole  |
| { Mixed . . . . .            | 775,000 | 80,000 |  |
| 1907-08 { Pure . . . . .     | 329,800 | 9,900  | Favourable at first, but not afterwards owing to drought             |
| { Mixed . . . . .            | 900,000 | 30,000 |  |

(a) Includes Eastern Bengal up to 1903-04

(b) "Pure" means seed sown by itself; "mixed" means 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

Note.—The figures for 1907-08 are subject to revision

## SESAMUM—continued

| PROVINCE                              | acres   | tons   | Character of season                              |
|---------------------------------------|---------|--------|--|
| <i>Panjab and N.-W. Frontier (a)</i>  |         |        |  |
| 1893-94 . . . . .                     | 234,800 | 25,900 | Not unfavourable on the whole                    |
| 1894-95 . . . . .                     | 319,200 | 31,917 | Favourable on the whole                          |
| 1895-96 . . . . .                     | 189,400 | 18,772 | Unfavourable                                     |
| 1896-97 . . . . .                     | 223,400 | 21,379 |  |
| 1897-98 . . . . .                     | 195,400 | 22,984 | Favourable on the whole                          |
| 1898-99 . . . . .                     | 252,600 | 23,350 | Favourable, though rain ceased somewhat early    |
| 1899-1900 . . . . .                   | 216,400 | 16,253 | Favourable at first, but unfavourable later      |
| 1900-01 . . . . .                     | 218,500 | 19,077 | Unfavourable owing to heavy floods               |
| 1901-02 . . . . .                     | 211,500 | 17,640 | Unfavourable. Rainfall unevenly distributed      |
| 1902-03 . . . . .                     | 244,000 | 20,819 | Not unfavourable on the whole                    |
| 1903-04 . . . . .                     | 246,600 | 26,143 | Favourable on the whole                          |
| 1904-05 . . . . .                     | 158,000 | 16,000 | Unfavourable owing to insufficient moisture      |
| 1905-06 . . . . .                     | 146,300 | 13,900 | Unfavourable on the whole. Rainfall deficient    |
| 1906-07 . . . . .                     | 95,500  | 8,800  | Unfavourable. Rainfall irregular                 |
| 1907-08 . . . . .                     | 84,100  | 4,700  | Very unfavourable. Rains ceased early            |
| <i>Sind (including Native States)</i> |         |        |  |
| 1893-94 . . . . .                     | 177,740 | 12,309 | Moisture insufficient                            |
| 1894-95 . . . . .                     | 191,040 | 15,892 | Favourable                                       |
| 1895-96 . . . . .                     | 151,038 | 12,052 | Scanty rains and low inundation                  |
| 1896-97 . . . . .                     | 183,873 | 12,384 | Inundation good                                  |
| 1897-98 . . . . .                     | 154,812 | 8,260  | Not favourable                                   |
| 1898-99 . . . . .                     | 114,129 | 8,285  | Inundation low                                   |
| 1899-1900 . . . . .                   | 158,957 | 7,323  | Unfavourable on the whole                        |
| 1900-01 . . . . .                     | 105,881 | 4,468  |  |
| 1901-02 . . . . .                     | 99,693  | 5,985  | Water-supply deficient                           |
| 1902-03 . . . . .                     | 118,044 | 7,602  | Not quite favourable                             |
| 1903-04 . . . . .                     | 122,496 | 5,665  | Crop suffered from blight and insects            |
| 1904-05 . . . . .                     | 83,700  | 5,800  | Inundation low                                   |
| 1905-06 . . . . .                     | 84,400  | 6,300  | Favourable on the whole                          |
| 1906-07 . . . . .                     | 55,900  | 4,300  | Crop damaged by insects                          |
| 1907-08 . . . . .                     | 50,800  | 3,900  | Inundation low                                   |
| <i>Derar (b)</i>                      |         |        |  |
| 1893-94 . . . . .                     | 85,300  | 3,200  | Not favourable. Rainfall excessive               |
| 1894-95 . . . . .                     | 69,715  | 2,359  |  |
| 1895-96 . . . . .                     | 76,155  | 2,704  | Not favourable owing to drought                  |
| 1896-97 . . . . .                     | 103,298 | 3,515  | Favourable at first, but drought later           |
| 1897-98 . . . . .                     | 135,164 | 6,573  | Favourable                                       |
| 1898-99 . . . . .                     | 135,483 | 5,620  |  |
| 1899-1900 . . . . .                   | 116,089 | 1,436  | Unfavourable owing to drought and excessive heat |
| 1900-01 . . . . .                     | 149,022 | 9,554  | Very favourable                                  |
| 1901-02 . . . . .                     | 118,249 | 2,958  | Unfavourable. Rainfall excessive and continuous  |
| 1902-03 . . . . .                     | 138,092 | 5,402  | Favourable at first, but late rain untimely      |
| 1903-04 . . . . .                     | 121,551 | 11,630 | Crop damaged by heavy rain                       |
| 1904-05 . . . . .                     | 111,500 | 10,100 | Unfavourable. Rainfall irregular                 |
| 1905-06 . . . . .                     | 108,100 | 9,200  | At first favourable; but drought damaged crop    |
| 1906-07 . . . . .                     | 90,200  | 9,700  | Not unfavourable on the whole                    |
| 1907-08 . . . . .                     | 95,800  | 10,100 | Crop suffered through want of moisture           |

(a) The figures of both area and yield from 1904-05 relate to Panjab only, the forecast of the sesamum crop of the North-West Frontier Province having been discontinued from that year

(b) The estimates of yield for the years previous to 1903-04 are defective, being based on incorrect data

Note.—The figures for 1907-08 are subject to revision

## SESAMUM—concluded

| PROVINCE             |               | acres     | tons    | Character of season  |
|----------------------|---------------|-----------|---------|--|
| <i>Hyderabad (a)</i> |               |           |         |  |
| 1896-97              | . . .         | 387,041   | 13,005  | } Not favourable   |
| 1897-98              | . . .         | 404,020   | 13,200  |  |
| 1898-99              | . . .         | 426,740   | 14,463  | } Rains failed   |
| 1899-1900            | . . .         | 237,512   | 2,383   |  |
| 1900-01              | . . .         | 392,032   | 10,421  | } Not favourable on the whole                              |
| 1901-02              | . . .         | 377,023   | 21,660  | } Late rains unfavourable                                  |
| 1902-03              | . . .         | 472,282   | 34,038  | } Favourable   |
| 1903-04              | . . .         | 601,607   | 33,325  | } Crop suffered from heavy rains                           |
| 1904-05              | . . .         | 780,000   | 29,400  | } Unfavourable owing to insufficient rainfall              |
| 1905-06              | . . .         | 465,600   | 18,400  |  |
| 1906-07              | . . .         | 493,700   | 27,300  | } Favourable   |
| 1907-08              | . . .         | 510,600   | 20,600  | } Not favourable   |
| <br><i>Total</i>     |               |           |         |  |
| 1893-94              | { Pure . . .  | 2,619,240 | 222,609 | } Not favourable on the whole                              |
|                      | { Mixed . . . | 509,000   | 50,000  |  |
| 1894-95              | { Pure . . .  | 3,000,989 | 277,933 | } Crop injured by excessive rain                           |
|                      | { Mixed . . . | 448,000   | 40,000  |  |
| 1895-96              | { Pure . . .  | 3,171,472 | 282,129 | } Crop injuriously affected by deficient rain              |
|                      | { Mixed . . . | 560,000   | 55,000  |  |
| 1896-97              | { Pure . . .  | 3,369,198 | 250,958 | } Unfavourable. Short rainfall                             |
|                      | { Mixed . . . | 672,000   | 45,000  |  |
| 1897-98              | { Pure . . .  | 3,662,109 | 355,817 | } Favourable on the whole                                  |
|                      | { Mixed . . . | 594,000   | 60,000  |  |
| 1898-99              | { Pure . . .  | 3,530,625 | 348,118 | } Generally favourable                                     |
|                      | { Mixed . . . | 713,000   | 70,000  |  |
| 1899-1900            | { Pure . . .  | 3,316,067 | 213,256 | } Very unfavourable owing to drought                       |
|                      | { Mixed . . . | 517,000   | 60,000  |  |
| 1900-01              | { Pure . . .  | 4,052,491 | 372,856 | } Favourable   |
|                      | { Mixed . . . | 622,000   | 75,000  |  |
| 1901-02              | { Pure . . .  | 3,711,711 | 296,210 | } Unfavourable owing to deficient and ill-distributed rain |
|                      | { Mixed . . . | 611,000   | 60,000  |  |
| 1902-03              | { Pure . . .  | 4,435,648 | 493,587 | } Generally favourable                                     |
|                      | { Mixed . . . | 717,000   | 60,000  |  |
| 1903-04              | { Pure . . .  | 4,838,164 | 539,478 | } Favourable   |
|                      | { Mixed . . . | 747,000   | 70,000  |  |
| 1904-05              | { Pure . . .  | 4,178,700 | 300,400 | } Unfavourable. Rainfall irregular followed by drought     |
|                      | { Mixed . . . | 600,000   | 35,000  |  |
| 1905-06              | { Pure . . .  | 3,913,800 | 344,800 | } Not favourable on the whole                              |
|                      | { Mixed . . . | 700,000   | 45,000  |  |
| 1906-07              | { Pure . . .  | 3,864,900 | 451,000 | } Favourable on the whole                                  |
|                      | { Mixed . . . | 775,000   | 90,000  |  |
| 1907-08              | { Pure . . .  | 3,794,300 | 241,600 | } Unfavourable owing to protracted drought                 |
|                      | { Mixed . . . | 900,000   | 30,000  |  |

(a) The figures for the years previous to 1902-03 exclude *jagir* areas

Note.—The figures for 1907-08 are subject to revision

## GROUNDNUT

[ The figures in tons represent the outturn of nuts in shell ]

| PROVINCE                                | acres       | tons (a)   | Character of season  |
|---|-------------|------------|--|
| <i>Madras</i>                           |             |            |  |
| 1895-96 . . . . .                       | 243,400     | } (b)      |  |
| 1896-97 . . . . .                       | 157,300     |            |  |
| 1897-98 . . . . .                       | 94,500      |            |  |
| 1898-99 . . . . .                       | 116,200     |            |  |
| 1899-1900 . . . . .                     | 102,000     |            |  |
| 1900-01 . . . . .                       | 229,997     |            |  |
| 1901-02 . . . . .                       | 337,600     |            |  |
| 1902-03 . . . . .                       | 421,300     |            |  |
| 1903-04 . . . . .                       | 384,400     |            |  |
| 1904-05 . . . . .                       | 366,400     |            | 151,700  |
| 1905-06 . . . . .                       | 393,100     | 174,500    | Favourable   |
| 1906-07 . . . . .                       | 511,000     | 189,000    | Favourable   |
| 1907-08 . . . . .                       | 572,000     | 200,000    | Rainfall seasonable  |
| <i>Bombay (including Native States)</i> |             |            |  |
| 1896-97 . . . . .                       | 148,728     | (b)        |  |
| 1897-98 . . . . .                       | 120,308     | (c) 55,962 | Rainfall insufficient  |
| 1898-99 . . . . .                       | 101,614     | 70,561     | Not unfavourable on the whole                                      |
| 1899-1900 . . . . .                     | 71,946      | 9,250      | Disastrous owing to drought  |
| 1900-01 . . . . .                       | 64,411      | 28,631     | Unfavourable. Rainfall deficient                                   |
| 1901-02 . . . . .                       | 96,622      | 63,298     | Favourable at first, but not afterwards                            |
| 1902-03 . . . . .                       | 69,855      | 61,854     | Rainfall deficient. Water-supply short                             |
| 1903-04 . . . . .                       | 89,793      | 94,409     | Favourable   |
| 1904-05 . . . . .                       | 93,300      | 63,200     | Not favourable on the whole. Rainfall deficient                    |
| 1905-06 . . . . .                       | 92,800      | 36,700     | Unfavourable. Late rains deficient                                 |
| 1906-07 . . . . .                       | 111,000     | 84,700     | Favourable, though crop suffered from deficient moisture in places |
| 1907-08 . . . . .                       | 96,600      | 59,100     | Crop suffered from deficient water-supply and disease              |
| <i>Total</i>                            |             |            |  |
| 1895-96 . . . . .                       | (d) 243,400 | } (b)      |  |
| 1896-97 . . . . .                       | 306,026     |            |  |
| 1897-98 . . . . .                       | 214,803     |            |  |
| 1898-99 . . . . .                       | 217,814     |            |  |
| 1899-1900 . . . . .                     | 173,946     |            |  |
| 1900-01 . . . . .                       | 294,408     |            |  |
| 1901-02 . . . . .                       | 434,222     |            |  |
| 1902-03 . . . . .                       | 491,155     |            |  |
| 1903-04 . . . . .                       | 474,193     |            |  |
| 1904-05 . . . . .                       | 459,700     |            | 214,900  |
| 1905-06 . . . . .                       | 485,900     | 211,200    |  |
| 1906-07 . . . . .                       | 622,000     | 273,700    | Favourable   |
| 1907-08 . . . . .                       | 668,600     | 259,100    | Not unfavourable on the whole                                      |

(a) The average outturn per acre in Madras has been fixed at 1,120 lbs of nuts in shell. In Bombay where groundnut is mainly grown with the help of irrigation, a good average crop is 3,200 lbs

(b) No information

(c) Excluding Native States

(d) Madras only

(e) Bombay only

Note—The figures for 1907-08 are subject to revision

## JUTE

| PROVINCE                            | acres*    | bales of 400 lb  | Character of season                              |                 |                       |
|-------------------------------------|-----------|------------------|--|-----------------|-----------------------|
| <i>Bengal (a)</i>                   |           |                  |  |                 |                       |
| 1893 . . . . .                      | 2,222,600 | 5,001,700        | Crop injured by heavy and continuous rain        |                 |                       |
| 1894 . . . . .                      | 2,264,300 | 6,144,300        | Favourable on the whole                          |                 |                       |
| 1895 . . . . .                      | 2,242,700 | 5,551,000        | Rainfall ill-distributed                         |                 |                       |
| 1896 . . . . .                      | 2,196,600 | 5,717,000        | Rainfall deficient on the whole                  |                 |                       |
| 1897 . . . . .                      | 2,151,600 | 6,839,000        | Favourable on the whole                          |                 |                       |
| 1898 . . . . .                      | 1,624,400 | 5,334,000        | Unfavourable on the whole                        |                 |                       |
| 1899 . . . . .                      | 1,961,800 | 5,412,000        |  |                 |                       |
| 1900 . . . . .                      | 2,093,400 | (b) { 6,528,000  | Rainfall somewhat irregular                      |                 |                       |
| 1901 . . . . .                      | 2,263,800 | 7,438,000        | Unfavourable at first, but favourable afterwards |                 |                       |
| 1902 . . . . .                      | 2,108,300 | 6,577,000        | Abnormal. Rainfall irregular                     |                 |                       |
| 1903 . . . . .                      | 2,213,600 | 7,241,000        | Favourable generally                             |                 |                       |
| 1904 . . . . .                      | 2,850,000 | 7,400,000        | Crop damaged by excessive rain                   |                 |                       |
| 1905 . . . . .                      | 569,300   | 1,485,900        | Moderately favourable                            |                 |                       |
| 1906 . . . . .                      | 780,400   | 1,911,700        | Favourable, though crop damaged by floods        |                 |                       |
| 1907 . . . . .                      | 931,200   | 2,058,300        | Favourable at first, but not afterwards          |                 |                       |
| <i>Eastern Bengal and Assam (c)</i> |           |                  |  |                 |                       |
| 1902 . . . . .                      | 34,400    | (d) { 48,000     | Unfavourable. Rain excessive                     |                 |                       |
| 1903 . . . . .                      | 38,250    | 90,000           | Favourable generally                             |                 |                       |
| 1904 . . . . .                      | 29,700    | 46,000           | Very unfavourable owing to heavy rain and floods |                 |                       |
| 1905 . . . . .                      | 2,559,000 | 6,602,200        | Moderately favourable                            |                 |                       |
| 1906 . . . . .                      | 2,702,500 | 7,215,700        | Favourable, though crop affected by floods       |                 |                       |
| 1907 . . . . .                      | 3,011,100 | 7,678,300        | Favourable on the whole                          |                 |                       |
| <i>Cooch Bihar</i>                  |           |                  |  |                 |                       |
| 1903 . . . . .                      | 23,200    | (d) { 50,000     | Not reported                                     |                 |                       |
| 1904 . . . . .                      | 20,000    | 36,000           |  |                 |                       |
| 1905 . . . . .                      | (e)       | 52,800           |  |                 |                       |
| 1906 . . . . .                      | (e)       | 79,000           |  |                 |                       |
| 1907 . . . . .                      | 32,000    | 81,200           |  |                 |                       |
| <i>Total</i>                        |           |                  |  |                 |                       |
| 1893 . . . . .                      | 2,222,600 | See under Bengal | See under Bengal                                 |                 |                       |
| 1894 . . . . .                      | 2,264,300 |                  |  |                 |                       |
| 1895 . . . . .                      | 2,242,700 |                  |  |                 |                       |
| 1896 . . . . .                      | 2,196,600 |                  |  |                 |                       |
| 1897 . . . . .                      | 2,151,600 |                  |  |                 |                       |
| 1898 . . . . .                      | 1,624,400 |                  |  |                 |                       |
| 1899 . . . . .                      | 1,961,800 |                  |  |                 |                       |
| 1900 . . . . .                      | 2,093,400 |                  |  |                 |                       |
| 1901 . . . . .                      | 2,263,800 |                  |  |                 |                       |
| 1902 . . . . .                      | 2,142,700 |                  |  |                 |                       |
| 1903 . . . . .                      | 2,275,050 |                  |  |                 |                       |
| 1904 . . . . .                      | 2,899,700 |                  |  |                 |                       |
| 1905 . . . . .                      | 3,128,300 |                  |  | (f) { 8,140,900 | Moderately favourable |
| 1906 . . . . .                      | 3,482,900 |                  |  |                 | 9,206,400             |
| 1907 . . . . .                      | 3,974,300 | 9,817,800        | Moderately favourable                            |                 |                       |

\* The estimates of the area under jute in Bengal previous to 1904 are based on very uncertain data

(a) Including Eastern Bengal up to 1904

(b) Revised according to the statistics of trade and consumption, and including the production of Assam, Cooch Bihar and Nepal

(c) The figures up to 1904 relate to Assam only, the figures for Eastern Bengal for those years being included under Bengal

(d) Included in the figures shown under Bengal for these years.

(e) Not reported

(f) Excluding the figures for Nepal, Upper India and Madras, which are stated below (bales):—

|                | Nepal  | Upper India             | Madras                  |
|----------------|--------|-------------------------|-------------------------|
|                |        | ( <i>vid</i> E. I. Ry.) | ( <i>vid</i> B. N. Ry.) |
| 1905 . . . . . | 64,300 | 26,269                  | 4,257                   |
| 1906 . . . . . | 50,018 | 10,520                  | 1,057                   |
| 1907 . . . . . | 77,600 | 5,500                   | 7,800                   |

*Notes.*—The figures for 1907 are subject to revision



## INDIGO

| PROVINCE                | acres     | cwt     | Character of season  |
|-------------------------|-----------|---------|--|
| <i>Bengal</i>           |           |         |  |
| 1893-94                 | 648,928   | 67,285  | Crop injured by heavy rain and floods                        |
| 1894-95                 | 629,100   | 104,485 | Generally favourable   |
| 1895-96                 | 552,700   | 73,133  | Favourable for the most part                                 |
| 1896-97                 | 582,200   | 56,671  | Not unfavourable on the whole                                |
| 1897-98                 | 529,500   | 50,415  | Rainfall insufficient and ill-distributed                    |
| 1898-99                 | 512,100   | 74,321  | Favourable for the most part                                 |
| 1899-1900               | 449,200   | 44,996  | Crop injured by excessive rain and floods                    |
| 1900-01                 | 360,000   | 47,707  | Not unfavourable on the whole                                |
| 1901-02                 | 311,200   | 41,820  | Rainfall deficient   |
| 1902-03                 | 255,500   | 21,924  | Very unfavourable, rainfall irregular and ill-distributed    |
| 1903-04                 | 247,700   | 81,895  | Favourable on the whole                                      |
| 1904-05                 | 223,100   | 24,800  | Very unfavourable. Rainfall irregular                        |
| 1905-06                 | 161,500   | 15,800  |  |
| 1906-07                 | 137,800   | 17,300  | Crop injured by excessive rain and high floods               |
| 1907-08                 | 146,800   | 20,000  | Favourable for the most part                                 |
| <i>United Provinces</i> |           |         |  |
| 1893-94                 | 349,980   | 38,106  | Favourable   |
| 1894-95                 | 420,242   | 41,524  | Favourable on the whole                                      |
| 1895-96                 | 342,102   | 33,786  | Favourable   |
| 1896-97                 | 436,601   | 40,713  | Favourable, though crop suffered from scanty rainfall        |
| 1897-98                 | 378,899   | 37,545  | Crop injured by heavy rain                                   |
| 1898-99                 | 240,418   | 28,416  | Not favourable. Crop injured by insects and heavy rain       |
| 1899-1900               | 231,400   | 17,977  | Crop injured at first by excessive rain and then by drought  |
| 1900-01                 | 202,175   | 31,529  | Favourable on the whole                                      |
| 1901-02                 | 168,990   | 18,986  | Unsatisfactory, until the end of the season                  |
| 1902-03                 | 135,811   | 10,007  | Unfavourable at first but favourable afterwards              |
| 1903-04                 | 140,834   | 12,823  | Not unfavourable on the whole                                |
| 1904-05                 | 74,500    | 8,000   | Crop injured by heavy and continuous rain                    |
| 1905-06                 | 40,700    | 4,300   | Not favourable on the whole                                  |
| 1906-07                 | 40,400    | 5,100   | Favourable on the whole                                      |
| 1907-08                 | 47,800    | 5,600   |  |
| <i>Madras</i>           |           |         |  |
| 1893-94                 | 442,400   | 58,100  | Rainfall timely  |
| 1894-95                 | 514,500   | 67,480  | Favourable generally   |
| 1895-96                 | 414,900   | 63,680  | Not unfavourable on the whole                                |
| 1896-97                 | 454,700   | 50,740  | Not favourable on the whole. Rainfall deficient              |
| 1897-98                 | 323,900   | 61,460  | Not unfavourable on the whole                                |
| 1898-99                 | 210,600   | 30,320  | Unfavourable on the whole                                    |
| 1899-1900               | 249,000   | 33,340  |  |
| 1900-01                 | 251,900   | 46,100  | Favourable on the whole                                      |
| 1901-02                 | 239,400   | 38,480  | Not favourable on the whole                                  |
| 1902-03                 | 212,200   | 40,260  | Generally favourable   |
| 1903-04                 | 241,900   | 45,900  | Favourable   |
| 1904-05                 | 128,300   | 16,700  | Unfavourable owing to scanty rainfall                        |
| 1905-06                 | 113,900   | 17,300  | Not unfavourable on the whole                                |
| 1906-07                 | 180,700   | 32,800  | Favourable   |
| 1907-08                 | 119,300   | 16,800  | Not favourable owing to want of seasonable rainfall.         |
| <i>Panjab</i>           |           |         |  |
| 1893-94                 | 110,700   | 15,946  | Favourable   |
| 1894-95                 | 124,200   | 24,005  |  |
| 1895-96                 | 104,300   | 20,325  | Favourable on the whole                                      |
| 1896-97                 | 135,400   | 20,549  | Crop suffered through deficient rain                         |
| 1897-98                 | 108,800   | 17,392  | Generally good   |
| 1898-99                 | 47,200    | 8,263   | Unfavourable on the whole                                    |
| 1899-1900               | 97,300    | 15,577  | Crop suffered from absence of rain                           |
| 1900-01                 | 115,700   | 22,693  | Favourable   |
| 1901-02                 | 71,600    | 13,533  | Crop suffered from insufficient rain and locusts             |
| 1902-03                 | 42,000    | 7,016   | Unfavourable   |
| 1903-04                 | 74,200    | 12,184  | Favourable. Rainfall seasonable                              |
| 1904-05                 | 53,000    | 9,900   | Not unfavourable on the whole                                |
| 1905-06                 | 67,500    | 10,800  |  |
| 1906-07                 | 62,300    | 11,000  | Favourable, though crop damaged by insects                   |
| 1907-08                 | 57,900    | 9,000   | Unfavourable throughout                                      |
| <i>Total</i>            |           |         |  |
| 1893-94                 | 1,552,008 | 179,437 | Favourable except in Bengal                                  |
| 1894-95                 | 1,688,042 | 237,494 | Favourable   |
| 1895-96                 | 1,414,002 | 190,924 | Favourable on the whole                                      |
| 1896-97                 | 1,608,901 | 168,673 | Not unfavourable on the whole                                |
| 1897-98                 | 1,339,099 | 166,812 |  |
| 1898-99                 | 1,010,318 | 139,320 | Not favourable on the whole                                  |
| 1899-1900               | 1,026,900 | 111,890 | Unfavourable. Rain irregular and ill-distributed             |
| 1900-01                 | 990,375   | 148,029 | Favourable on the whole                                      |
| 1901-02                 | 791,190   | 112,819 | Unfavourable. Rainfall deficient                             |
| 1902-03                 | 645,511   | 79,207  | Unfavourable on the whole                                    |
| 1903-04                 | 706,634   | 102,302 | Favourable   |
| 1904-05                 | 476,900   | 58,900  | Not favourable on the whole                                  |
| 1905-06                 | 383,600   | 48,200  |  |
| 1906-07                 | 421,200   | 65,700  | Not unfavourable on the whole                                |
| 1907-08                 | 371,300   | 51,400  | Crop injured by lack of timely rain except in Bengal (Bihar) |

Note.—The figures for 1907-08 are subject to revision

## SUGARCANE

[The figures in tons represent the outturn of raw sugar (*gur*)]

| PROVINCE                                | acres     | tons      | Character of season  |
|---|-----------|-----------|--|
| <i>United Provinces</i>                 |           |           |  |
| 1898-99                                 | 1,227,881 | 1,204,799 | Favourable   |
| 1899-1900                               | 1,259,070 | 838,885   | Rainfall irregular and ill-distributed                         |
| 1900-01                                 | 1,212,456 | 1,193,214 | Favourable on the whole  |
| 1901-02                                 | 1,228,691 | 976,222   | Not favourable on the whole                                    |
| 1902-03                                 | 1,151,777 | 904,132   | Not favourable owing to insufficient rain and frost            |
| 1903-04                                 | 1,089,602 | 877,102   | Not favourable owing to heavy and continuous rain              |
| 1904-05                                 | 1,212,600 | 1,183,400 | Very favourable throughout                                     |
| 1905-06                                 | 1,228,900 | 884,000   | Unfavourable owing to deficient rain and drought               |
| 1906-07                                 | 1,386,700 | 1,264,600 | Very favourable on the whole                                   |
| 1907-08                                 | 1,481,700 | 916,700   | Not favourable owing to continued drought                      |
| <i>Bengal (a)</i>                       |           |           |  |
| 1898-99                                 | 861,100   | 871,435   | Favourable on the whole  |
| 1899-1900                               | 884,400   | 817,185   | Favourable at first, but not so afterwards                     |
| 1900-01                                 | 801,800   | 811,420   | Not very favourable on the whole                               |
| 1901-02                                 | 661,200   | 676,410   | Not unfavourable on the whole                                  |
| 1902-03                                 | 673,500   | 681,580   |  |
| 1903-04                                 | 632,400   | 653,900   | Unfavourable at first, but favourable afterwards               |
| 1904-05                                 | 633,000   | 634,700   | Favourable at first, but drought later                         |
| 1905-06                                 | 421,600   | 426,700   | Not unfavourable on the whole                                  |
| 1906-07                                 | 424,500   | 420,300   |  |
| 1907-08                                 | 435,500   | 407,200   | Favourable at first, but not afterwards                        |
| <i>Eastern Bengal and Assam</i>         |           |           |  |
| 1905-06                                 | 201,500   | 188,500   | Crop suffered from excessive rain and floods                   |
| 1906-07                                 | 182,200   | 174,400   | Not unfavourable on the whole                                  |
| 1907-08                                 | 174,600   | 163,200   | Favourable at first, but not afterwards                        |
| <i>Panjab</i>                           |           |           |  |
| 1898-99                                 | 351,200   | (b)       |  |
| 1899-1900                               | 343,600   | 203,935   | Unfavourable   |
| 1900-01                                 | 334,500   | 272,114   | Favourable on the whole  |
| 1901-02                                 | 351,500   | 239,105   | Not favourable owing to drought and frosts                     |
| 1902-03                                 | 309,400   | 204,012   | Not favourable owing to failure of winter rains                |
| 1903-04                                 | 321,260   | 292,684   | Not unfavourable, though crop injured by heavy rain and frosts |
| 1904-05                                 | 325,500   | 238,300   | Not unfavourable on the whole                                  |
| 1905-06                                 | 172,700   | 89,000    | Distinctly unfavourable owing to drought                       |
| 1906-07                                 | 277,700   | 212,800   | Favourable   |
| 1907-08                                 | 384,700   | 288,500   | Crop suffered somewhat from short supply of water              |
| <i>Bombay (including Native States)</i> |           |           |  |
| 1907-08                                 | 61,800    | 154,900   | Crop affected by excessive rain at first and by drought later  |
| <i>Madras (c)</i>                       |           |           |  |
| 1898-99                                 | 45,500    | (b)       |  |
| 1899-1900                               | 54,400    |           |  |
| 1900-01                                 | 55,400    |           |  |
| 1901-02                                 | 51,100    | 109,400   | Favourable, though rainfall deficient in places                |
| 1902-03                                 | 46,500    | 93,400    | Water-supply deficient   |
| 1903-04                                 | 44,300    | 83,700    | Rainfall heavy at sowing time                                  |
| 1904-05                                 | 47,800    | 90,000    | On the whole fair  |
| 1905-06                                 | 60,700    | 114,500   | Favourable   |
| 1906-07                                 | 52,100    | 100,400   | Rainfall not seasonable  |
| 1907-08                                 | 48,900    | 92,000    | Rainfall not seasonable in places                              |
| <i>N.-W. Frontier</i>                   |           |           |  |
| 1901-02                                 | 23,900    | 21,339    | Not unfavourable on the whole                                  |
| 1902-03                                 | 26,652    | 23,660    | Favourable   |
| 1903-04                                 | 27,090    | 24,620    | Favourable on the whole  |
| 1904-05                                 | 25,900    | 22,600    | Favourable, though intense cold interfered with harvesting     |
| 1905-06                                 | 25,600    | 22,800    | Favourable though crop injured slightly by frost               |
| 1906-07                                 | 28,600    | 32,800    | Favourable   |
| 1907-08                                 | 35,200    | 32,200    |  |
| <i>Total</i>                            |           |           |  |
| 1898-99                                 | 2,485,681 | 2,076,234 | Not unfavourable on the whole                                  |
| 1899-1900                               | 2,541,470 | 1,860,005 | Unfavourable   |
| 1900-01                                 | 2,404,156 | 2,276,718 | Favourable on the whole  |
| 1901-02                                 | 2,316,391 | 2,022,476 | Not favourable on the whole                                    |
| 1902-03                                 | 2,207,829 | 1,906,784 | Not favourable. Water supply deficient                         |
| 1903-04                                 | 2,114,593 | 1,871,986 | Not favourable. Rainfall heavy                                 |
| 1904-05                                 | 2,244,800 | 2,169,000 | Favourable on the whole  |
| 1905-06                                 | 2,111,000 | 1,725,500 | Not favourable owing to drought                                |
| 1906-07                                 | 2,351,800 | 2,205,300 | Generally favourable   |
| 1907-08                                 | 2,622,400 | 2,054,700 | Favourable at first, but not afterwards                        |

(a) Includes Eastern Bengal up to 1904-05

(b) No information

(c) The estimates for Madras up to 1906-07 relate only to *raiyatwari* villages; but since that year estimates for certain *zamindari* and whole *sham* villages have also been included

Note.—The figures for 1907-08 are subject to revision