

NOTE.—Owing to lack of comparable data due to the creation of the new province of Orissa, the position as shown in the upper map in respect of Madras is somewhat defective. For the actual figures of rainfall, reference may be made to the publications issued by the Meteorological Department.

[FIFTY-THIRD ISSUE]

DEPARTMENT OF COMMERCIAL INTELLIGENCE AND STATISTICS, INDIA

Agricultural Statistics of India

1936-37

Volume I

Area, Classification of Area, Area under Irrigation,
Area under Crops, Live-Stock, Land Revenue
Assessment and Harvest Prices in British India.

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APPENDICES.

APPENDIX A

The Average Yield per Acre of Principal Crops in India.

A provisional estimate of the yield per acre of principal crops cultivated in India was first made in the year 1892; this estimate was based on the then available materials, namely, the various statistical publications, such as the periodical agricultural and settlement reports, crop forecasts, gazetteers, replies received in response to enquiries from the Famine Commission and other *ad hoc* bodies, etc. To provide for the periodical revision of the estimates, a system of experimental crop cuttings was first prescribed in 1893 by the Government of India. The results of these experiments are reported by Local Governments and Administrations at the close of each quinquennium and form principally the raw material for this volume. The returns for the last quinquennium ending 1931-32 have been scrutinised and tabulated in the appended tables.* These figures of outturns per acre are of some importance in view of the fact that they will form, during the present quinquennium (ending 1936-37), the basis for estimating the production of crops for which forecasts are prepared.

2. The estimate of standard yield should represent the average outturn on average soil in a year of average character, as deduced from the information obtained from experiments made up to the period under review. When, therefore, this average is multiplied by the average area sown, the result should give as near an approximation as possible to the outturn of the crop in an average year. The Departments of Agriculture or Land Records in the different provinces maintain standard estimates of the average yield of land of average quality (usually under the two major heads of irrigated and unirrigated land) for several crops in each district. The object of the experiments or investigations annually made is to test the accuracy of these estimates and to enable the head of the Department in each province to revise his provincial estimates, when necessary. Should it happen that the period has been one of exceptionally favourable or unfavourable conditions which have affected the experiments reported, this would not in itself necessarily involve a change in the standard estimates for the district or for the province, unless there are other reasons for believing that, as estimates of average yield in an average year, they have been pitched too high or too low.

3. On an examination of the relevant returns for the quinquennium ending 1911-12, it was felt that the results of the experiments as conducted by the district revenue staff were generally unreliable. A change in the system was therefore considered necessary; and in 1915 the Government of India, with a view to improve the returns, issued instructions to employ, as far as possible, expert officers of the Agricultural Department to carry out experiments for the investigation of the average crop outturns in each province. The new system was, however, introduced only in some provinces, and that only to a limited extent, due mainly to paucity of staff possessing the many necessary special qualifications. During the quinquennium under review no crop cutting experiments were conducted in Bombay and Madras. In Bihar and Orissa, the method of estimating standard outturns by the method of random sampling has been experimented upon and is reported to have proved successful; but the Local Government consider it still premature to use the figure thus obtained as a standard mean yield for the province. In the case of Bengal, the majority of experiments have been conducted by the trained officers of the Agricultural Department during the quinquennium under review, and the normal yields have been deduced solely from their results without taking into consideration the results of the past quinquennia. In certain other provinces, such as Sind, Ajmer-Merwara, Delhi, Coorg and the Mysore State, the standard yields appear to have been worked out on the actual results of experiments conducted during the quinquennium under review alone without considering whether the character of the seasons included in the period was such as would justify the results to be regarded as normal or standard.

4. As a result of the experiments conducted or investigations made during the present quinquennium, several revisions have been made in the figures of standard outturns previously adopted. Some of these variations are noted below.

* The return for the previous quinquennium ending 1926-27 was published in 1929.

APPENDIX A—continued

The yield of rice shows an increase in Coorg (from 1,464 to 1,580 lbs) the Punjab (from 1,178 to 1,212 lbs), and Bengal (the main or winter variety increasing from 1,022 to 1,111 lbs); the outturn of the crop in Sind has, on the other hand, been lowered from 1,364 to 1,255 lbs. The standard yield of wheat has been lowered in the United Provinces from 1,050 to 1,000 lbs, in the Central Provinces and Berar from 577 to 548 lbs and in the Punjab from 795 to 791 lbs; while it has been raised in the provinces of Delhi and Bengal from 828 and 721 lbs to 932 and 816 lbs, respectively. The yield of barley has been raised in Ajmer-Merwara from 1,160 to 1,315 lbs and in Delhi from 769 to 924 lbs, while there has been a marked decrease from 828 to 709 lbs in the North-West Frontier Province and from 805 to 722 lbs in the Punjab. The yield of jowar generally shows a lower trend except in Delhi where the yield has been slightly raised from 523 to 530 lbs. The yield of bajra has been lowered in the Punjab from 419 to 414 lbs. In the case of maize, the yield shows an increase in Delhi from 716 to 849 lbs and in the Punjab from 916 to 951 lbs, while it has been lowered in the North-West Frontier Province from 1,124 to 1,023 lbs and in the United Provinces from 1,100 to 1,050 lbs. The yield of gram is reduced from 616 to 585 lbs in the Punjab and from 800 to 750 lbs in the United Provinces but it has been increased in Bengal from 811 to 935 lbs. As regards oilseeds, the yield of linseed has been slightly increased in the Central Provinces and Berar from 212 to 215 lbs. In the case of sugarcane, the average yield in Bengal, Assam and the United Provinces increased from 3,054, 2,576 and 2,600 lbs to 4,643, 2,688 and 2,700 lbs, respectively; while in Sind, the North-West Frontier Province and the Punjab there was a decrease from 7,600, 2,761 and 1,953 lbs to 7,200, 2,477 and 1,951 lbs, respectively. In the case of cotton there seems to be an all-round increase except in the Punjab. The largest increases occur in Sind where the yield is placed at 215 lbs against 181 lbs and in the comparatively unimportant tracts of Delhi, Assam and the North-West Frontier Province. In Bengal and Bihar and Orissa, the average yields of jute have been increased from 1,331 lbs and 1,200 lbs to 1,465 lbs and 1,333 lbs, respectively.

5. The statement below compares the average outturns of the major crops in the different provinces. The relative importance of each province in respect of each crop has also been shown by percentages representing the proportion of the total area under each crop in British India cultivated in each province. Tea has been included in this statement, although this crop is not dealt with in the quinquennial returns, the average outturns having been calculated from the special annual returns of the crop for the five calendar years ending 1931.

Province	RICE		WHEAT		BARLEY		JOWAR		BAJRA	
	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre
Ajmer-Merwara	..	lbs ..	0.1	lbs 758	0.8	lbs 1,315	0.3	lbs 265	..	lbs ..
Assam . . .	5.7	{ (a) 896 (b) 1,004 (c) 717 }	..	..	..	..	..	..	..	..
Bengal . . .	25.8	{ (a) 1,111 (b) 1,238 (c) 1,023 }	0.5	816	..	..	..	..	..	..
Bihar and Orissa.	17.6	{ (a) 987 (b) 800 (c) 741 }	4.0	{ (d) 934 (e) 451 }	19.2	881	..	..	..	..
Bombay { Presidency	2.5	1,230	6.5	575	..	..	85.7	{ (f) 1,500 (g) 670 }	29.5	400
Bombay { Sind . . .	1.5	1,255	2.0	{ (f) 937 (g) 764 }	0.2	{ (f) 495 (g) 897 }	2.7	{ (f) 849 (g) 643 }	7.9	{ (f) 596 (g) 322 }
Burma . . .	15.9	1,000	0.2	540	..	..	2.5	450	..	..
Central Provinces and Berar . . .	6.9	648	13.2	548	..	..	19.9	646	..	..
Coorg . . .	0.1	1,580	..	..	..	..	..	..	..	..
Delhi . . .	..	..	0.2	932	0.2	924	0.2	530	0.5	469
Madras . . .	14.1	1,055	..	..	..	..	22.1	564	22.1	494
North-West Frontier Province . . .	0.1	862	4.0	626	2.7	709	0.4	495	1.2	417
Punjab . . .	1.1	1,212	88.2	791	12.7	722	4.6	385	22.1	414
United Provinces.	8.7	900	80.0	1,000	22.2	1,150	11.2	600	15.0	550

(a) Winter. (b) Spring. (c) Autumn. (d) Bihar. (e) Chota Nagpur. (f) Irrigated. (g) Unirrigated.

APPENDIX A—continued

Province	RAGI		MAIZE		GRAM		LINSEED		SESAME	
	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre
		lbs		lbs		lbs		lbs		lbs
Ajmer-Merwara . . .	..	..	1.8	568	..	..	..	..	..	..
Assam . . .	..	..	..	2,128	..	..	0.4	836	..	..
Bengal . . .	..	..	..	..	1.0	935	4.5	607	8.5	610
Bihar and Orissa . . .	19.8	820	26.8	820	10.2	881	24.1	493	..	..
Bombay { Presidency . . .	16.8	{ (f) 1,400 (g) 1,060 }	..	..	4.4	{ (f) 1,200 (g) 410 }	4.7	850	4.7	400
Bombay { Sind . . .	..	..	..	..	1.7	{ (f) 539 (g) 547 }	..	..	0.8	{ (f) 284 (g) 320 }
Burma . . .	..	..	8.5	680	..	..	..	..	37.4	160
Central Provinces and Berar . . .	..	..	..	..	9.1	534	22.0	218	12.4	810
Coorg . . .	..	..	..	..	..	..	..	..	..	..
Delhi . . .	..	..	..	849	0.8	589	..	..	..	328
Madras . . .	57.1	947	2.1	635	0.6	{ (A) 400 (f) 100 }	..	..	17.8	801
North-West Frontier Province . . .	..	..	7.5	1,023	1.6	419	..	..	..	..
Punjab . . .	..	..	17.8	951	20.7	585	..	..	..	..
United Provinces . . .	..	..	84.5	1,050	23.4	750	23.0	600	25.7	280

Province	RAPE AND MUSTARD		SUGARCANE		COTTON		JUTE		TEA	
	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre	Percentage area to total area	Outturn per acre
		lbs		lbs		lbs		lbs		lbs
Ajmer-Merwara . . .	..	..	..	..	0.2	232	..	..	..	..
Assam . . .	5.4	459	1.8	2,628	0.8	155	5.4	1,400	60.4	607
Bengal . . .	11.7	624	7.7	4,642	0.4	155	27.2	1,468	27.5	827
Bihar and Orissa . . .	10.8	492	10.6	2,460	0.5	155	7.4	1,333	0.4	231
Bombay { Presidency . . .	0.8	628	2.4	6,950	22.2	102	..	..	..	..
Bombay { Sind . . .	2.0	{ (f) 376 (g) 362 }	0.1	7,200	2.0	215	..	..	..	..
Burma . . .	..	..	..	..	2.1	110	..	..	..	..
Central Provinces and Berar . . .	..	..	0.8	8,390	22.1	102	..	..	..	..
Coorg . . .	..	..	..	..	..	..	..	..	0.1	424
Delhi . . .	0.2	325	0.1	2,336	..	185	..	..	..	..
Madras . . .	..	..	2.9	6,380	14.8	87	..	..	9.2	827
North-West Frontier Province . . .	1.6	320	1.8	2,477	0.1	100	..	..	..	..
Punjab . . .	18.4	428	15.7	1,951	14.3	{ (f) 123 (h) 130 }	..	..	1.4	201
United Provinces . . .	46.9	600	54.8	2,700	5.0	170	..	..	0.9	1.0

(f) Irrigated. (g) Unirrigated. (h) Bengal gram. (i) Horse gram. (j) Deol. (k) American.

APPENDIX A—continued

6. The leading features of the provincial reports are summarised below :—

Ajmer-Merwara.—Experiments were conducted by the three Sub-divisional officers and the Tahsildar in Todgarh Tahsil in respect of the following main crops : jowar, maize, cotton, barley and wheat. On the basis of the results of these experiments, the yield of barley has been increased from 1,160 to 1,315 lbs ; while that of maize and jowar has been lowered from 1,040 and 340 lbs to 563 and 265 lbs, respectively. The experiments in cotton were confined to irrigated variety alone during the quinquennium under review and the yield of this variety has been lowered from 269 to 232 lbs. It appears that the provincial figures reported are merely the arithmetic averages of the district figures.

Assam.—Experiments were made during the quinquennium by the revenue officers on all crops for which forecasts are prepared and on certain other crops such as *matikalai* (*phaseolus radiatus*), maize, potato and tobacco. The number of experiments made during the period under review was considerably less for practically all the important crops, the total number of experiments for all crops being 1,000 against 1,450 in the preceding quinquennium. Besides the experiments made by the Revenue Officers, systematic experiments were also conducted on sugarcane by the staff of the Agricultural Department during the first three years of the period. Only a few revisions have been made in the standards adopted for the province, and these are all in the upward direction except in the case of rape and mustard, the standard for which has been lowered. The important changes made are an increase in the yield of sugarcane from 2,576 to 2,688 lbs, and in that of cotton from 176 to 188 lbs ; while there has been a decrease in the yield of rape and mustard from 504 to 459 lbs. The standard yield of tobacco has for the first time been fixed at 840 lbs per acre on the basis of the experiments conducted during the present and past quinquennia.

Bengal.—The total number of experiments made during the quinquennium under review with staple crops (rice, wheat, gram, linseed, rape and mustard, sesamum, sugarcane, jute and tobacco) was 6,923, as against 6,697 in the preceding quinquennium. The largest number of experiments was carried out in respect of winter rice. Next in order of importance came autumn rice and jute, though in the latter case, the number of experiments was very much smaller than in the preceding quinquennium. As the majority of the experiments were conducted during the quinquennium under review by trained officers of the Agricultural Department with due care and accuracy, it is stated that greater reliance can be placed on the data on which the average yields have been based. Unlike the procedure followed in the past, the provincial averages have, on this occasion, been deduced solely from the results of the experiments conducted during the quinquennium under review without taking into consideration the results obtained during the preceding quinquennia. It is nevertheless claimed that the provincial averages now deduced may safely be taken as normal yields, although the question as to whether the particular years comprised in the quinquennium under review are sufficient to smooth out the peculiarities of the season does not appear to have been thoroughly tested. The results of the experiments made show that the average yields per acre of all the principal crops have appreciably increased ; and the position is explained as being due in certain cases to the spread of improved varieties and the methods of cultivation recommended by the Agricultural Department and their rapid adoption throughout the province. The important changes are in the yield of sugarcane from 3,054 to 4,643 lbs per acre, of tobacco from 1,007 to 1,191 lbs per acre, of jute from 1,331 to 1,465 lbs per acre and of autumn rice from 892 to 1,023 lbs per acre. The returns do not distinguish between irrigated and unirrigated crops, the area under the former being comparatively small in the province. A few experiments were also made as usual with certain minor crops, such as barley, maize, peas, lentil, potato, *mung*, *arhar*, *khesari*, and cotton.

Bihar and Orissa.—It was remarked in the preceding report that the method of crop-cutting experiments formerly adopted by district officers and the Agricultural Department had been given up in the province owing to admittedly unreliable results obtained therefrom and that the Local Government were experimenting with the statistical method of random sampling in arriving at the normal outturns of crops. The results of the experiments conducted under the new method during

APPENDIX A—continued

the last three years have demonstrated the value and practicability of the method as a guide to arriving at the standard outturn. But the Local Government consider it still premature to use the figures obtained under the new method. The standard yields in force have therefore been maintained. In the case of jute crop, however, the Director of Agriculture has revised the standard outturn of the crop on the basis of special enquiries made on the subject.

Bombay.—(i) *Presidency.*—It has long been recognised that the number of experiments conducted in the province during the past was not sufficiently numerous and representative to serve as reliable guides to the revision of normal yields. A scheme of conducting these tests on a more satisfactory basis by the agency of the Agricultural Department was, therefore, prepared by the local Director of Agriculture which was also approved by the Local Government. But unfortunately the introduction of the new scheme had to be postponed pending establishment of a satisfactory organisation for the purpose. No crop-cutting experiments have accordingly been made in the province during the quinquennium under review, and the old standards continue. The Director of Agriculture has, however, revised after due consideration certain district standards of the unirrigated groundnut crop in the Deccan division.

(ii) *Sind.*—The standard yields based mainly on the actual results of the experiments conducted during the quinquennium under review show an increase in the yield of cotton from 181 to 215 lbs, and a decrease in the yield of rice from 1,364 to 1,255 lbs, of barley (irrigated) from 756 to 495 lbs and barley (unirrigated) from 963 to 397 lbs, of jowar (unirrigated) from 966 to 613 lbs and of sugarcane from 7,600 to 7,200 lbs. The appreciable decrease in the standard yields of rice, barley and jowar (unirrigated) is explained by the fact that owing to floods and unsteady supply of water these crops did not receive the normal stimulus and also suffered to some extent on account of invasion of locusts.

Burma.—As stated in the preceding report, standard yields in Burma are based on experiments made by Settlement Officers. The standards adopted for the quinquennium ending 1926-27 have generally been retained. But the standard yield of rice (cleaned) in the Myitkyina district has been slightly revised on consideration of a later settlement report.

Central Provinces and Berar.—The defects noticed in the preceding report with regard to the method of conducting crop experiments in the province still persist in some of the district reports. In addition, it has been found that proper allowance for dryage is seldom made in arriving at the result and sometimes no mention is made as to whether it has been allowed for or not. These defects are it is stated, being brought to the notice of the district officers concerned by the provincial Director of Land Records and it is expected that more satisfactory data will be forthcoming in future. The method of random sampling was given a trial in the case of rice crop in Chattisgarh for the first three years of the quinquennium but it had to be abandoned for financial reasons. The method is, however, likely to be taken up again as soon as conditions improve; and if it proves successful, would be extended to other important crops. Of the five years included in the quinquennium under review, the first three were particularly unfavourable to *rabi* (spring) crops in the northern districts and Nerbudda Valley owing to prevalence of frost and rust in 1927, intense cold in 1928 and insufficiency of the late monsoon in 1929. During 1930-31 there was absence of timely winter showers which reduced the outturns of *rabi* crops, while in the closing year 1931-32 there was a partial failure of all *kharif* (autumn) crops, except rice, owing to excessive rainfall. The results of the experiments conducted in the unsatisfactory period covered by the quinquennium under review could not naturally be taken to provide a satisfactory basis for revision of the figures; and accordingly the revisions made in the present return have been reduced to a minimum. The present revision shows an increase in the yield of sugarcane (*gur*) from 3,186 to 3,390 lbs as a result of experiments made by the Agricultural Department for eight years and that of linseed from 212 to 215 lbs, while the yield of wheat has been lowered from 577 to 543 lbs and that of jowar from 656 to 646 lbs. In the case of cotton, the normal outturn of the crop for the province as a whole, on the basis of actuals ascertained by trade and mill statistics for the past ten years 1922-23 to 1931-32, works out at 103 lbs of lint per acre, as against the current standard of 102 lbs per acre. It is stated that

APPENDIX A—*continued*

though the Berar standards might require raising as a result of the introduction of improved seeds by Agricultural Department, yet the results of the quinquennium under review afford no reliable basis for such revision.

Coorg.—The only experiments made in Coorg have, as usual, been on rice. During the period under review 111 experiments were carried out and on the results of these experiments the average yield of rice has been raised from 1,464 to 1,580 lbs.

Delhi.—As compared with the preceding quinquennium, the important changes are an increase in the average yield of barley from 769 to 924 lbs, of wheat from 828 to 982 lbs, of maize from 716 to 849 lbs, of sugarcane from 2,296 to 2,386 lbs and of cotton from 165 to 185 lbs. The comparative increase in the yield of sugarcane is explained to be due to the damaging of the crop by floods and dust storms in the preceding quinquennium.

Madras.—It was explained in the preceding reports that the standard outturns adopted in Madras are not based on crop-cutting experiments alone, but on other data as well, such as the results obtained in Government farms, trade figures, etc. The utility of crop-cutting experiments in the province has been considered to be doubtful in view of the fact that it is not possible to select an average ten cent plot which would represent a crop spread over a considerable area on account of the great variations to be found between different tracts in a country of small holdings. No crop-cutting experiments were therefore conducted in the province during the quinquennium under review, and the district standards previously adopted have mostly been retained. There have however been some changes in the provincial standards due to the variations in the normal areas which are revised once in every three years on the basis of reports for the last three non-famine years in consultation with the District Officers. The principal changes in the provincial standards are an increase in the yield of ragi from 937 to 947 lbs, of tobacco from 1,165 to 1,203 lbs, and of cotton from 84 to 87 lbs; and a decrease in the yield of jowar from 571 to 564 lbs.

North-West Frontier Province.—As usual, three representative districts, *viz.*, Hazara, Peshawar and Dera Ismail Khan were selected for the purpose of conducting crop experiments in the province. The experiments in the first two districts were, in accordance with the revised instructions, conducted by the members of the Agricultural Department, while those in the last-named district by the Revenue staff. Unfortunately, however, the crop returns supplied by the Agricultural Department were again incomplete, while the results of the experiments made by the Revenue staff in the Dera Ismail Khan district were considered to be unreliable as a guide to average outturn. The averages now reported have, however, been carefully scrutinised in consultation with the local officers and are believed to be correct. As a result of the present revision there has been a decrease in the yield of sugarcane from 2,761 to 2,477 lbs, of barley from 828 to 709 lbs and of maize from 1,124 to 1,023 lbs.

Punjab.—In the Punjab, the system of crop-cutting experiments has been recently revised and greatly improved. Formerly the experiments were made by the officers of the Agricultural Department in some districts, and by officers of the Revenue Department in others. But from 1930 both the departments have been conducting experiments separately in all districts except Simla. This system has resulted in a much larger number of experiments and has provided much more reliable data than in the past. Moreover, the results of the experiments after each harvest were carefully scrutinised jointly by the Director of Land Records and Director of Agriculture. In preparing the present return, the rates of yield fixed in the previous quinquennia or assumed for assessment purposes and the results of crop experiments made from time to time have all been considered along with the opinion of the local officers of the Revenue and Agricultural Departments before the yields were finally fixed. The latest revision shows a general decrease in the provincial averages. The important variations are a decrease in the yield of barley from 805 to 722 lbs, of jowar from 417 to 385 lbs, of gram from 616 to 585 lbs and of cotton (American) from 146 to 130 lbs. The yields of rice and maize have, however, been raised from 1,178 to 1,212 lbs and from 916 to 951 lbs, respectively. The average yield of the irrigated variety of tobacco has for the first time been fixed at 1,078 lbs per acre for the province.

APPENDIX A—*continued*

United Provinces.—In the quinquennium under review, crop-cutting experiments were, as usual, conducted in the representative districts of the province. The results obtained have necessitated revisions only in certain cases where the evidence accumulated was considered sufficient to justify a change. The principal changes are a decrease in the yield of wheat, maize and gram and an increase in the yield of sugarcane. The data on which these revisions are based are, however, considered by the provincial Director of Agriculture to be not very reliable and the method of crop-cutting experiments is, it is reported, under revision.

Mysore.—As a result of the experiments conducted during the quinquennium under review, the yields of rice, sugarcane and cotton have been lowered while those of ragi, horse-gram and sesamum raised. The important changes are an increase in the yield of ragi from 699 to 1,016 lbs, of sesamum from 281 to 411 lbs and a decrease in the yield of sugarcane from 3,847 to 3,639 lbs.

APPENDIX A—continued
No. 1—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each

PROVINCE	Quinquennium ending	RICE (HUSKED) (<i>Oryza sativa</i>)			WHEAT (<i>Triticum sativum</i>)			BARLEY (<i>Hordeum vulgare</i>)			JOWAR (<i>Sorghum vulgare</i>)			
		Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	
Ajmer-Merwara	1911-12	..	..	..	..	..	..	1,248	550	1,168	..	137	..
	1916-17	..	..	..	..	..	..	1,086	..	..	..	322	..
	1921-22	..	..	..	..	..	..	1,429	1,300	1,396	..	252	..
	1926-27	..	..	..	..	..	..	1,521	800	1,160	..	340	..
	1931-32	..	..	..	1,246	270	758	1,736	894	1,315	..	265	..
Assam	1911-12	..	(a) 1,008	..	..	..	..	..	..	..	..	..	..
	1916-17	..	(c) 672 (a) 952 (b) 1,008	..	..	..	..	..	..	..	..	..	..
	1921-22	..	(c) 706 (a) 896 (b) 1,008	..	..	..	..	..	..	..	..	..	..
	1926-27	..	(c) 706 (a) 896 (b) 1,008	..	..	..	..	..	..	..	..	..	..
	1931-32	..	(c) 706 (a) 896 (b) 1,064 (c) 717	..	..	..	..	..	..	..	..	..	..
Bengal	1911-12	..	..	(a) 983 (b) 1,104 (c) 807	..	..	861	..	..	..	..	..	..
	1916-17	..	..	(a) 1,036 (b) 1,179 (c) 871	..	..	698	..	..	..	..	..	..
	1921-22	..	..	(a) 1,029 (b) 1,156 (c) 888	..	..	688	..	..	..	..	..	..
	1926-27	..	..	(a) 1,022 (b) 1,142 (c) 892	..	..	721	..	..	..	..	..	..
	1931-32	..	..	(a) 1,111 (b) 1,238 (c) 1,023	..	..	816	..	..	..	..	..	..
Bihar and Orissa	1911-12	..	..	(a) 1,234 (b) 800 (c) 800	..	..	(d) 984 (e) 451	..	..	881	..	..	..
	1916-17	..	..	(a) 1,234 (b) 800 (c) 800	..	..	(d) 984 (e) 451	..	..	881	..	..	..
	1921-22	..	..	(a) 987 (b) 800 (c) 741	..	..	(d) 984 (e) 451	..	..	881	..	..	..
	1926-27	..	..	(a) 987 (b) 800 (c) 741	..	..	(d) 984 (e) 451	..	..	881	..	..	..
	1931-32	..	..	(a) 987 (b) 800 (c) 741	..	..	(d) 984 (e) 451	..	..	881	..	..	..
Bombay	Presidency	1911-12	..	1,230	..	1,250	510	575	1,550	670	..
		1916-17	..	1,230	..	1,250	510	575	1,550	670	..
		1921-22	..	1,230	..	1,250	510	575	1,550	670	..
		1926-27	..	1,230	..	1,250	510	575	1,500	670	..
		1931-32	..	1,230	..	1,250	510	575	1,500	670	..
Sind	1911-12	..	..	..	1,340	..	..	..	1,076	..	1,396	..	..
	1916-17	1,316	..	..	1,366	874	..	..	1,279	..	866	..	..
	1921-22*	1,341	..	..	1,032	711	..	842	1,069	..	816	392	..
	1926-27	1,364	..	..	930	780	..	756	903	..	840	966	..
	1931-32	1,255	..	..	937	764	..	495	397	..	849	643	..

NOTE—(1) Average yield of both irrigated and unirrigated land is ascertained by multiplying the yield of irrigated land by the irrigated area cropped, and the yield of unirrigated land multiplied by the unirrigated area cropped, and dividing the sum of these products by the total area cropped.

(2) The superseded figures of the previous four quinquennia have been inserted merely to show the trend of the revision made in each period. The variations in the figures of yield of crops now reported as compared with previous ones are due to the fact that the averages have been worked out not approximately as before, but accurately.

(a) Winter.

(b) Spring.

(c) Autumn.

PROVINCE OF BRITISH INDIA and in the MYSORE STATE

BAJRA (<i>Pennisetum typhoides</i>)			RAOI (<i>Klusine coracana</i>)			MAIZE (<i>Zea Mays</i>)			PEAS AND BEANS			Quinquennium ending	PROVINCE
Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both		
..	946	835	808	1911-12	Ajmer-Merwara
..	..	..	..	..	..	998	827	934	..	..	..	1916-17
..	..	..	..	..	..	1,090	400	917	..	..	..	1921-22
..	..	..	..	..	..	1,309	771	1,040	..	..	..	1926-27
..	..	..	..	..	..	807	320	563	..	..	..	1931-32
..	1911-12	Assam
..	..	..	..	..	..	..	2,128	..	..	..	..	1916-17
..	..	..	..	..	..	..	2,128	..	..	..	..	1921-22
..	..	..	..	..	..	..	2,128	..	..	..	..	1926-27
..	..	..	..	..	..	..	2,128	..	..	..	..	1931-32
..	1911-12	Bengal
..	..	..	..	..	..	..	..	..	..	..	..	1916-17
..	..	..	..	..	..	..	..	..	..	..	..	1921-22
..	..	..	..	..	..	..	..	..	..	..	..	1926-27
..	..	..	..	..	..	..	..	..	..	..	..	1931-32
..	820	820	1911-12	Bihar and Orissa
..	..	..	..	..	820	..	..	820	..	..	..	1916-17
..	..	..	..	..	820	..	..	820	..	..	..	1921-22
..	..	..	..	..	820	..	..	820	..	..	..	1926-27
..	..	..	..	..	820	..	..	820	..	..	..	1931-32
..	400	..	1,400	1,060	1911-12	Bombay
..	400	..	1,400	1,060	..	..	..	..	..	..	..	1916-17
..	400	..	1,400	1,060	..	..	..	..	..	..	..	1921-22
..	400	..	1,400	1,060	..	..	..	..	..	..	..	1926-27
..	400	..	1,400	1,060	..	..	..	..	..	..	..	1931-32
971	1911-12	Sind
624	..	..	..	..	..	..	..	..	..	..	..	1916-17
591	319	..	..	..	..	..	..	..	..	..	..	1921-22
609	320	..	..	..	..	..	..	..	..	515	..	1926-27
596	322	..	..	..	..	..	..	..	..	454	..	1931-32

APPENDIX A—continued

No. 1.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each

PROVINCE	Quinquen- nium ending	RICE (HUSSAK) (<i>Oryza sativa</i>)			WHEAT (<i>Triticum sativum</i>)			BARLEY (<i>Hordeum vulgare</i>)			JOWAR (<i>Sorghum vulgare</i>)		
		Irrig- ated	Unirri- gated	Both	Irrig- ated	Unirri- gated	Both	Irrig- ated	Unirri- gated	Both	Irrig- ated	Unirri- gated	Both
Burma—													
Upper Burma*	1911-12	1,094	891	997	..	322	..	..	..	..	..	264	..
	1916-17	..	..	1,034	..	..	545	..	..	..	..	..	458
Lower Burma*	1911-12	..	1,140	..	..	..	..	..	..	..	..	..	..
	1916-17	..	..	1,083	..	..	..	..	..	..	..	..	..
Burma . . .	1921-22	..	..	970	..	..	540	..	..	..	..	..	430
	1926-27	..	..	1,000	..	..	540	..	..	..	..	..	450
	1931-32	..	..	1,000	..	..	540	..	..	..	..	..	450
Central Provinces and Berar	1911-12	..	..	624	..	..	600	..	..	..	..	664	..
	1916-17	..	..	624	..	..	600	..	..	..	..	664	..
	1921-22	..	..	624	..	..	600	..	..	..	..	664	..
	1926-27	..	..	647	..	..	577	..	..	..	..	656	..
	1931-32	..	..	648	..	..	548	..	..	..	..	646	..
Coorg . . .	1911-12	..	1,483	..	..	..	..	..	..	..	..	..	..
	1916-17	..	1,425	..	..	..	..	..	..	..	..	..	..
	1921-22	..	1,420	..	..	..	..	..	..	..	..	..	..
	1926-27	..	1,464	..	..	..	..	..	..	..	..	..	..
	1931-32	..	1,580	..	..	..	..	..	..	..	..	..	..
Delhi . . .	1916-17	..	..	..	1,148	656	..	960	870	..	..	400	..
	1921-22	..	..	..	1,148	576	792	1,056	672	630	720	576	558
	1926-27	..	..	..	1,148	656	828	1,051	693	769	734	520	523
	1931-32	..	..	..	1,148	656	982	1,079	707	924	735	510	530
Madras . . .	1911-12	1,193	887	..	..	..	..	..	..	..	1,379	721	..
	1916-17	..	..	1,047	..	..	..	..	..	..	..	..	696
	1921-22	1,166	804	1,065	..	..	..	..	..	..	1,241	493	569
	1926-27	1,170	774	1,057	..	..	..	..	..	..	1,235	489	571
	1931-32	1,170	769	1,055	..	..	..	..	..	..	1,240	490	564
North-West Frontier Provinces	1911-12	1,205	..	..	874	559	633	1,189	730	876	..	436	..
	1916-17	1,203	..	..	914	588	676	1,141	746	907	..	399	..
	1921-22	862	..	862	793	522	614	1,140	685	880	663	399	506
	1926-27	862	..	862	795	521	612	1,113	660	828	875	345	504
	1931-32	862	..	862	824	514	626	912	564	709	896	342	496
Punjab . . .	(a)1911-12	782	474	688	898	555	726	1,018	592	716	488	381	406
	1916-17	881	515	782	964	606	791	1,056	679	809	541	449	476
	1921-22	862	508	777	1,020	640	856	1,056	694	825	545	402	436
	1926-27	1,300	783	1,178	997	576	795	1,004	626	805	514	392	416
	1931-32	1,312	789	1,212	967	572	791	1,004	560	722	506	352	386

See explanations given in footnotes (1) and (2) on page 10.
* The averages for Burma for 1916-17 are based on the normal outturns per acre given in the Season and Crop Report of Burma for 1916-17.
(a) Includes Delhi.

PROVINCE of BRITISH INDIA and in the MYSORE STATE—continued

BAJRA (<i>Pennisetum typhoides</i>)			RAGI (<i>Eleusine coracana</i>)			MAIZE (<i>Zea Mays</i>)			PEAS AND BEANS			Quinquennium ending	PROVINCE
Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both		
..	{ (b) 478 (c) 855 }	..	1911-12	Burma—
..	{ (b) 732 (c) 746 }	..	1916-17	Upper Burma
..	1911-12	Lower Burma
..	..	..	..	..	..	..	..	..	..	..	..	1916-17
..	700	..	{ (b) 570 (c) 750 (d) 710 }	..	1921-22	Burma
..	..	..	..	..	..	..	..	680	..	{ (b) 560 (c) 780 (d) 750 }	..	1926-27
..	..	..	..	..	..	..	..	680	..	{ (b) 560 (c) 780 (d) 750 }	..	1931-32
..	1911-12	Central Provinces and Bihar
..	..	..	..	..	..	..	..	..	..	..	..	1916-17
..	..	..	..	..	..	..	..	..	..	..	..	1921-22
..	..	..	..	..	..	..	..	..	..	..	..	1926-27
..	..	..	..	..	..	..	..	..	..	..	..	1931-32
..	1911-12	Coorg
..	..	..	..	..	..	..	..	..	..	..	..	1916-17
..	..	..	..	..	..	..	..	..	..	..	..	1921-22
..	..	..	..	..	..	..	..	..	..	..	..	1926-27
..	..	..	..	..	..	..	..	..	..	..	..	1931-32
..	380	840	1916-17	Dullai
600	528	529	..	..	..	912	648	728	..	..	..	1921-22
599	463	463	..	..	..	1,039	638	716	..	..	..	1926-27
588	466	469	..	..	..	956	629	849	..	..	..	1931-32
1,020	659	..	1,419	1,075	1911-12	Madras
..	..	624	..	..	1,002	..	..	..	..	..	..	1916-17
960	440	488	1,341	639	927	..	..	636	..	..	..	1921-22
961	438	400	1,331	635	937	..	..	635	..	..	..	1926-27
962	433	404	1,307	661	947	..	..	635	..	..	..	1931-32
704	489	502	1,356	735	1,292	1911-12	North-West Frontier Province
784	540	552	..	..	..	1,770	735	1,276	..	..	..	1916-17
571	427	436	..	..	..	1,449	740	1,118	..	..	..	1921-22
585	417	424	..	..	..	1,459	740	1,124	..	..	..	1926-27
594	408	417	..	..	..	1,209	734	1,023	..	..	..	1931-32
521	365	379	1,112	766	908	1911-12	Punjab
568	416	429	..	..	..	1,324	622	1,040	..	..	..	1916-17
550	409	425	..	..	..	1,261	745	962	..	..	..	1921-22
526	406	419	..	..	..	1,187	720	916	..	..	..	1926-27
508	400	414	..	..	..	1,177	760	951	..	..	..	1931-32

(b) *Dolichos lablab* (large white).
(c) *Phaseolus linnatus* (red).(d) *Phaseolus linnatus* (small white).

APPENDIX A—continued

No. 1.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each

PROVINCE	Quinquennium ending	RICE (HUSKED) (<i>Oryza sativa</i>)			WHEAT (<i>Triticum sativum</i>)			BARLEY (<i>Hordeum vulgare</i>)			JOWAR (<i>Sorghum vulgare</i>)		
		Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both
United Provinces	1911-12	1,100	850	900	1,250	850	1,050	1,300	900	1,100	..	650	..
	1916-17	1,100	850	900	1,250	850	1,050	1,350	900	1,150	..	600	..
	1921-22	1,100	850	900	1,250	850	1,050	1,350	900	1,150	..	600	..
	1926-27	1,100	850	900	1,250	850	1,050	1,350	900	1,150	..	600	..
	1931-32	1,100	850	900	1,200	800	1,000	1,350	900	1,150	..	600	..
Average for British India	1931-32	..	..	988	..	..	811	..	..	1,029	..	..	626
Mysore	1911-12	841	..	..	..	..	..	..	..	..	..	..	..
	1916-17	1,185	..	..	..	..	..	..	..	..	..	..	..
	1921-22	1,322 ^(a)	..	..	..	..	..	..	..	..	..	..	..
	1926-27	1,071	..	..	..	..	..	..	..	..	..	..	..
	1931-32	1,003	..	..	..	..	..	..	..	..	..	..	..
PROVINCE	Quinquennium ending	ARHAR (<i>Cajanus indicus</i>)			GRAM (<i>Cicer arietinum</i>)			LINSEED (<i>Linum usitatissimum</i>)			SESAMUM (TIL OR JINJILI) (<i>Sesamum indicum</i>)		
		Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both
Ajmer-Merwara	1911-12	..	..	..	..	..	..	..	..	..	..	..	..
	1916-17	..	..	..	..	..	..	..	..	..	..	..	..
	1921-22	..	..	..	..	..	..	..	..	..	..	..	..
	1926-27	..	..	..	..	..	..	..	..	..	..	..	..
	1931-32	..	..	..	..	..	..	..	..	..	..	..	..
Assam	1911-12	..	..	..	..	..	..	..	448	..	..	448	..
	1916-17	..	..	..	..	..	..	..	448	..	..	..	..
	1921-22	..	..	..	..	..	..	..	336	..	..	..	..
	1926-27	..	..	..	..	..	..	..	336	..	..	..	..
	1931-32	..	..	..	..	..	..	..	336	..	..	..	..
Bengal	1911-12	..	..	..	..	..	881	..	..	492	..	..	..
	1916-17	..	..	..	..	..	867	..	..	443	..	..	504
	1921-22	..	..	..	..	..	826	..	..	467	..	..	503
	1926-27	..	..	..	..	..	811	..	..	473	..	..	495
	1931-32	..	..	..	..	..	935	..	..	607	..	..	610
Bihar and Orissa	1911-12	..	..	881	..	..	881	..	..	492	..	..	..
	1916-17	..	..	881	..	..	881	..	..	492	..	..	..
	1921-22	..	..	881	..	..	881	..	..	492	..	..	..
	1926-27	..	..	881	..	..	881	..	..	492	..	..	..
	1931-32	..	..	881	..	..	881	..	..	492	..	..	..

(a) Relates to unhusked rice (paddy).

PROVINCE of BRITISH INDIA and in the MYSORE STATE—continued

BAJRA (<i>Pennisetum typhoides</i>)			RAGI (<i>Eleusine coracana</i>)			MAIZE (<i>Zea Mays</i>)			PEAS AND BEANS			Quinquennium ending	PROVINCE	
Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both			
..	550	..	..	..	..	..	1,100	..	1,150	600	1,000	1911-12	United Provinces
..	550	..	..	..	..	..	1,100	..		600	1,000	1916-17	
..	550	1,100	..		(b) 1,150	600	1,000		1921-22
..	550	1,100	..		1,150	600	1,000		1926-27
..	550	1,050	..		1,100	600	950		1931-32
..	..	452	..	..	972	..	..	933	..	..	700	1931-32	Average for British India
..	..	..	..	581	..	..	..	..	..	..	..	1911-12	Mysore
..	..	..	..	728	..	..	..	..	..	..	..	1916-17	
..	..	..	..	723	..	..	..	..	..	..	..	1921-22	
..	..	..	..	699	..	..	..	..	..	..	..	1926-27	
..	..	..	..	1,016	..	..	..	..	..	..	..	1931-32	
RAPE AND MUSTARD (<i>Brassica sp</i>)			SUGARCANE (GUB) (<i>Saccharum officinarum</i>)			COTTON (CLEANED) (<i>Gossypium sp</i>)			JUTE (<i>Corchorus sp</i>)			Tobacco (<i>Nicotiana Tabacum</i> and <i>N. Rustica</i>)	Quinquennium ending	PROVINCE
Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both			
..	180	127	170	1911-12	Ajmer-Merwara
..	..	..	..	..	..	324	93	291	..	..	..	..	1916-17
..	..	..	..	..	..	176	18	138	..	..	..	..	1921-22
..	..	..	..	..	..	269	164	216	..	..	..	..	1926-27
..	..	..	..	..	..	232	(c)	..	..	..	..	..	1931-32
..	504	1,904	154	1,200	1911-12	Assam
..	504	..	..	2,016	..	..	153	..	..	1,320	..	..	1916-17
..	504	..	..	2,128	..	..	153	..	..	1,400	..	..	1921-22
..	504	..	..	2,576	..	..	176	..	..	1,400	..	..	1926-27
..	459	..	..	2,688	..	..	188	..	..	1,400	..	840	1931-32
..	..	492	2,905	155	1,271	..	1911-12	Bengal
..	..	480	..	..	2,963	..	..	155	..	..	1,300	..	1916-17
..	..	485	..	..	3,004	..	..	155	..	..	1,330	..	1921-22
..	..	483	..	..	3,054	..	..	155	..	..	1,331	1,007	1926-27
..	..	624	..	..	4,643	..	..	155	..	..	1,465	1,191	1931-32
..	..	492	2,460	155	1,200	..	1911-12	Bihar and Orissa
..	..	492	..	..	2,460	..	..	155	..	..	1,200	..	1916-17
..	..	492	..	..	2,460	..	..	155	..	..	1,200	..	1921-22
..	..	492	..	..	2,460	..	..	155	..	..	1,200	..	1926-27
..	..	492	..	..	2,460	..	..	155	..	..	1,333	..	1931-32

(b) *Pisum sativum*.

(c) No experiments were conducted during the quinquennium.

AVERAGE YIELD OF CROPS
(ALL PROVINCES)

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APPENDIX A—continued

No. 1.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each

PROVINCE	Quinquennium ending	ARHAR (<i>Cajanus indicus</i>)			GRAM (<i>Cicer arietinum</i>)			LINSEED (<i>Linum usitatissimum</i>)			SESAMUM (TIL OR JINJILI) (<i>Sesamum indicum</i>)			
		Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	
Bombay	Presidency	1911-12	1,200	410	360	400	..
		1916-17	1,200	410	360	400	..
		1921-22	1,200	410	360	400	..
		1926-27	1,200	410	360	400	..
		1931-32	1,200	410	360	400	..
	Sind	1911-12	476	394
		1916-17	604	242
		1921-22	583	491	320
		1926-27	575	502	274
		1931-32	589	547	284	320	..
Burma	Upper	1911-12	..	..	..	414	..	..	..	..	..	229	..
		1916-17	..	..	..	..	..	..	..	..	..	..	(a)225
	Lower	1911-12	..	..	..	..	..	..	..	..	..	..	..
		1916-17	..	..	..	..	..	..	..	..	..	..	..
	Burma	1921-22	160
		1926-27	160
Central Provinces and Berar	1931-32	..	..	..	..	..	..	..	..	..	..	..	160
	1911-12	..	..	..	..	532	..	..	226	..	..	224	..
	1916-17	..	..	..	..	532	..	..	226	..	..	224	..
	1921-22	..	..	..	..	532	..	..	226	..	..	224	..
	1926-27	..	..	..	..	533	..	..	212	..	..	210	..
Coorg	1931-32	..	..	..	..	534	..	..	215	..	..	210	..
	1911-12	..	..	..	..	..	..	..	..	..	..	..	..
	1916-17	..	..	..	..	..	..	..	..	..	..	..	..
	1921-22	..	..	..	..	..	..	..	..	..	..	..	..
	1926-27	..	..	..	..	..	..	..	..	..	..	..	..
Delhi	1916-17	..	..	..	..	650	..	..	..	..	..	..	..
	1921-22	..	..	..	720	552	555	..	..	..	..	..	317
	1926-27	..	..	..	739	549	551	..	..	..	325	325	325
	1931-32	..	..	..	738	562	589	..	..	..	325	325	325
Madras	1911-12	..	..	..	..	..	..	..	..	..	373	238	..
	1916-17	..	..	..	..	..	..	..	..	..	..	..	209
	1921-22	..	..	..	..	..	(b) 400	..	..	..	..	..	300
	1926-27	160*	303
		(b) 400	303
1931-32	..	..	..	..	..	..	(b) 400	..	..	..	..	..	301
							160*	..	..	..	..	..	301

(a) Average of both Upper and Lower Burma.

(b) Relates to Bengal gram.

* Relates to horse gram.

PROVINCE of BRITISH INDIA and in the MYSORE STATE—continued

RAPE AND MUSTARD (<i>Brassica sp</i>)			SUGARCANE (GUR) (<i>Saccharum officinarum</i>)			COTTON (CLEANED) (<i>Gossypium sp</i>)			JUTE (<i>Corchorus sp</i>)			Tobacco (<i>Nico- tiana Taba- cum and N. Rustica</i>)	Quinquen- nium ending	PROVINCE	
Irrig- ated	Unirri- gated	Both	Irrig- ated	Unirri- gated	Both	Irrig- ated	Unirri- gated	Both	Irrig- ated	Unirri- gated	Both				
..	625	..	6,950	100	1911-12	Presidency	Bombay
..	625	..	6,950	..	..	..	102	..	..	..	..	..	1916-17
..	625	..	6,950	..	..	..	102	..	..	..	..	..	1921-22
..	625	..	6,950	..	..	..	102	..	..	..	..	..	1926-27
..	625	..	6,950	..	..	..	102	..	..	..	..	..	1931-32
602	4,233	125	1911-12	Sind	
393	379	..	8,142	..	..	170	..	..	..	..	..	..	1916-17
348	375	..	(c)	..	..	100	..	..	..	..	..	..	1921-22
432	321	..	7,600	..	..	181	..	..	..	..	..	..	1926-27
376	362	..	7,200	..	..	215	..	..	..	..	..	..	1931-32
..	122	1911-12	Upper	Burma
..	..	..	..	..	..	..	..	84	..	..	..	..	1916-17
..	1911-12	Lower	
..	..	..	..	..	..	..	..	..	..	..	..	..	1916-17
..	90	1921-22	Burma	
..	..	..	..	..	..	..	..	110	..	..	..	..	1926-27
..	..	..	..	..	..	..	..	110	..	..	..	..	1931-32
..	2,569	..	86	1911-12	Central Provinces and Bihar	
..	..	..	..	..	2,569	..	86	..	..	..	..	..	1916-17
..	..	..	..	..	2,569	..	86	..	..	..	..	..	1921-22
..	..	..	..	..	3,186	..	102	..	..	..	..	..	1926-27
..	..	..	..	..	3,390	..	102	..	..	..	..	..	1931-32
..	1911-12	Coorg	
..	..	..	..	..	..	..	..	..	..	..	..	..	1916-17
..	..	..	..	..	..	..	..	..	..	..	..	..	1921-22
..	..	..	..	..	..	..	..	..	..	..	..	..	1926-27
..	..	..	..	..	..	..	..	..	..	..	..	..	1931-32
400	280	..	2,000	1,440	..	120	70	1916-17	Delli	
..	..	317	2,496	1,344	2,391	120	70	100	..	..	..	2,304	1921-22
325	325	325	2,390	1,600	2,296	193	120	165	..	..	..	2,524	1926-27
325	325	325	2,410	1,780	2,386	193	144	185	..	..	..	2,590	1931-32
..	6,701	87	55	1911-12	Madras	
..	..	..	5,040	..	..	..	..	66	..	..	..	..	1916-17
..	..	..	6,420	..	..	250	68	78	..	..	..	..	1921-22
..	..	..	6,383	..	..	250	71	84	..	..	..	1,165	1926-27
..	..	..	6,380	..	..	242	73	87	..	..	..	1,203	1931-32

(c) No experiments were conducted during the quinquennium.

APPENDIX A—continued

No. 1.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each

PROVINCE	Quinquennium ending	ARHAB (<i>Cajanus indicus</i>)			GRAM (<i>Cicer arietinum</i>)			LINSSEED (<i>Linum usitatissimum</i>)			SESAMUM (TIL OR JINJILI) (<i>Sesamum indicum</i>)		
		Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both
North-West Frontier Province	1911-12	..	..	..	730	449	449	..	..	..	..	..	..
	1916-17	..	..	..	726	488	489	..	..	..	..	..	..
	1921-22	..	..	..	625	417	420	..	..	..	..	..	..
	1926-27	..	..	..	622	411	421	..	..	..	..	..	..
	1931-32	..	..	..	629	417	419	..	..	..	..	..	..
Punjab	(a)1911-12	..	..	..	625	534	549	..	..	..	..	..	..
	1916-17	..	..	..	725	588	615	..	..	..	..	..	..
	1921-22	..	..	..	768	644	671	..	..	..	..	..	..
	1926-27	..	..	..	762	578	616	..	..	..	..	..	..
	1931-32	..	..	..	769	517	585	..	..	..	..	..	..
United Provinces	1911-12	..	750	..	950	800	800	..	500	..	..	280	..
	1916-17	..	800	..	950	800	800	..	500	..	..	280	..
	1921-22	..	800	..	950	800	800	..	500	..	..	280	..
	1926-27	..	800	..	950	800	800	..	500	..	..	280	..
	1931-32	..	750	..	900	750	750	..	500	..	..	280	..
Average for British India	1931-32	..	..	815	..	..	685	..	..	403	..	..	258
Mysore	1911-12	..	..	..	..	257*	..	..	..	..	..	199	..
	1916-17	..	..	..	..	386*	..	..	..	..	..	252	..
	1921-22	..	..	..	..	389*	..	..	..	..	..	238	..
	1926-27	..	..	..	..	360*	..	..	..	..	..	281	..
	1931-32	..	..	..	..	455*	..	..	..	..	..	411	..

(a) Includes Delhi.

* Related to horse gram.

PROVINCE of BRITISH INDIA and in the MYSORE STATE—concluded

APE AND MUSTARD (<i>Brassica sp</i>)			SUGARBEANE (QUE) (<i>Saccharum officinarum</i>)			COTTON (CLEANED) (<i>Gossypium sp</i>)			JUTE (<i>Corchorus sp</i>)			Tobacco (<i>Nicotiana Tabacum</i> and <i>N. Rustica</i>)	Quinquen- nium ending	PROVINCE
Irrig- ated	Unirri- gated	Both	Irrig- ated	Unirri- gated	Both	Irrig- ated	Unirri- gated	Both	Irrig- ated	Unirri- gated	Both			
544	411	418	2,430	173	142	160	1911-12	North-West Frontier Provinces
622	435	450	2,660	..	..	191	115	164	..	..	..	..	1916-17
457	297	322	2,721	..	..	102	58	92	..	..	..	..	1921-22
443	297	314	(d)2,761	..	..	102	59	90	..	..	..	..	1926-27
430	302	320	2,477	..	..	107	59	100	..	..	..	..	1931-32
498	330	396	1,748	1,467	1,686	126	95	118	1911-12	Punjab
540	339	429	2,038	1,520	1,933	143	104	135	..	..	..	..	1916-17
550	354	440	2,344	1,669	2,191	144	105	138	..	..	..	..	1921-22
532	338	435	2,045	1,533	1,953	{(b)138 (c)146	{(b)104 (c)81	{(b)130 (c)146	..	..	..	..	1926-27
518	341	428	2,046	1,470	1,951	{(b)126 (c)130	{(b)97 (c)72	{(b)123 (c)130	..	..	..	1,078	1931-32
..	600	..	2,600	220	130	160	1911-12	United Provinces
..	600	..	2,600	..	..	230	130	170	..	..	..	..	1916-17
..	600	..	2,600	..	..	230	130	170	..	..	..	..	1921-22
..	600	..	2,600	..	..	230	130	170	..	..	..	..	1926-27
..	600	..	2,700	..	..	230	130	170	..	..	..	..	1931-32
..	..	539	2,956	110	1,452	1,179	1931-32	Average for British India
..	3,138	79	1911-12	Mysore
..	..	..	2,559	..	..	..	122	..	..	..	..	..	1916-17
..	..	..	2,621	..	..	..	(d) 37	..	..	..	..	..	1921-22
..	..	..	3,847	..	..	..	47	..	..	..	..	..	1926-27
..	..	..	3,639	..	..	..	44	..	..	..	..	..	1931-32

(b) Data.

(c) American.

(d) Revised.

APPENDIX A—continued

No. 2.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in AJMER-MERWARA

DISTRICT	WHEAT			BARLEY			JOWAR	MAIZE			COTTON		
	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Unirrigated	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both
Ajmer . . . .	..	270	..	1,589	894	..	130	803	..	..	139	..	..
Kekri . . . .	..	..	..	2,300	..	..	400	800	..	..	310	..	..
Merwara	1,246	..	..	1,318	..	..	..	818	320	..	247	..	..
Average for the Province	1,246	270	758	1,736	894	1,315	265	807	320	563	232	..	..

* No experiments were conducted during the quinquennium.

No. 3.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each DISTRICT of ASSAM

DISTRICT	RICE			Mati-kalai (Phaseolus radiatus)	Rape and Mustard	Linseed	Maize	Sugar-cane (gur)	Cotton (cleaned)	Jute	Tobacco	Potato	
	Winter	Autumn	Spring									Summer	Winter
Caohar (plains)	(a) 896 (b) 896 (c) 896	784	..	..	448	..	..	2,576	..	..	..	..	..
Darrang	(a) 672 (b) 952 (c) 941	784	..	..	500	..	..	2,576	..	..	..	..	..
Garohills (plains)	(a) 784 (b) 1,176 (c) 1,131	896	..	..	448	..	..	..	..	..	..	..	..
Goalpara	(a) 784 (b) 1,120 (c) 1,030	708	..	..	504	..	..	3,136	..	..	..	..	..
Kamrup	(a) 728 (b) 896 (c) 840	672	..	..	392	..	..	2,464	..	..	..	..	..
Lakhimpur	(a) 952 (b) 1,008 (c) 1,008	672	..	..	504	..	..	3,024	..	..	..	..	..
Nowgong	(a) 896 (b) 952 (c) 918	708	..	..	448	..	..	2,240	160	..	..	..	..
Sibsagar	(a) 784 (b) 896 (c) 896	672	..	..	448	..	..	2,800	..	..	..	..	..
Sylhet	840	728	1,064	..	392	336	..	2,912	..	..	..	..	..
Average for the Plains districts	896	717	1,064	392	459	336	..	2,688	160	1,400	840	..	..
Garohills (hills)	..	672	..	..	..	..	..	..	200	..	..	..	..
Khasi and Jaintia Hills	(a) 728 (b) 1,008 (c) 862	728	..	..	..	..	2,128	..	160	..	..	5,600	1,650
Lushai Hills	1,232	..	..	..	..	..	..	..	..	..	..	..	..
North Caohar Hills	(a) 896 (b) 1,232 (c) 1,064	..	..	..	..	..	..	..	140	..	..	..	..
Average for the Hill districts	1,142	694	..	..	..	..	2,128	..	192	..	..	5,600	1,650
Average for the Province	896	717	1,064	392	459	336	2,128	2,688	188	1,400	840	5,600	1,650

(a) Broadcast.

(b) Transplanted.

(c) Both.

No. 4.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each DISTRICT of BENGAL

DISTRICT	Winter rice (husked)	Autumn rice (husked)	Summer rice (husked)	Wheat	Gram	Rape and mustard	Linsced	Sesamum (oil)	Sugarcane (per)	Jute	Tobacco
Bakarganj	1,127	1,055	1,032	..	..	..	..	752	4,370	1,488	..
Bankura	1,205	1,079	..	652	802	525	524	574	4,543	..	1,135
Birbhum	1,137	1,021	..	836	877	..	..	..	4,787	..	..
Bogra	1,021	978	..	..	800	570	510	545	5,006	1,303	..
Burdwan	1,310	1,068	..	640	956	593	..	..	5,234	1,630	..
Chittagong	1,412	1,130	..	..	..	629	..	550	5,222	..	1,100
Chittagong Hill Tracts	1,088	1,077	..	..	..	604	..	574	4,860	..	..
Dacca	1,039	1,023	..	790	892	607	..	..	4,789	1,444	1,033
Darjeeling	1,047	991	..	763	..	580	..	..	4,300	1,368	..
Dinajpur	1,237	1,022	..	700	..	751	..	526	4,400	1,430	..
Faridpur	1,123	985	1,130	839	931	625	647	600	5,040	1,443	1,033
Hooghly	1,201	993	..	..	..	..	..	..	5,342	1,553	..
Howrah	1,151	1,076	1,080	..	750	546	456	..	4,040	1,462	..
Jalpaiguri	1,064	971	..	..	..	606	..	500	4,595	1,406	1,090
Jessore	1,057	1,015	..	..	1,223	673	803	673	4,593	1,517	..
Khulna	1,169	990	1,174	..	..	..	..	..	4,272	1,463	..
Malda	1,029	1,050	960	830	927	595	680	502	4,888	1,408	1,000
Midnapore	1,138	1,022	..	..	875	740	588	..	4,563	1,438	900
Murshidabad	1,097	1,046	1,044	847	988	699	687	680	4,801	1,479	..
Mymensingh	1,044	985	1,344	..	900	602	..	..	4,855	1,516	1,150
Nadia	1,093	970	..	778	844	651	517	537	4,289	1,375	..
Noakhali	979	1,045	..	..	747	589	..	621	4,143	1,459	..
Pabna	987	1,032	1,120	787	761	561	639	616	4,191	1,521	1,047
Rajshahi	997	1,116	966	919	983	591	617	568	4,755	1,492	1,269
Rangpur	1,003	1,018	..	855	927	677	775	794	4,324	1,425	1,228
Tippera	1,064	1,020	1,000	..	..	529	..	..	4,164	1,451	..
24 Parganas	1,108	1,041	..	..	767	603	..	..	4,812	1,272	..
Average for the Province (a)	1,111	1,023	1,238	816	935	624	607	610	4,543	1,465	1,191

(a) These figures are averages of the experiments made during the quinquennium ending 1931-32.

APPENDIX A—continued

No. 5.—AVERAGE YIELD (lb per acre) of PRINCIPAL

DISTRICT	WINTER RICE (husked)		AUTUMN RICE (husked)		SUMMER RICE (husked)		WHEAT		BARLEY		MAIZE		RAGI OR MARUA	
	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated
Angul	(a) 903 (b) 812	(a) 777 (b) 1,157	.. (b) 664	(a) 609 (b) 1,261	..	..	..	..	..	..	..	494	..	..
Balasore	(a) 518 (b) 695	(a) 769 (b) 675	..	..	..	..	..	..	..	..	..	..	..	..
Bhagalpur	(a) 659 (b) 206	(a) 787 (b) 824	..	(a) 881 (b) 129	..	..	402	518	378	783	..	..	..	1,072
Champaran	(a) 773 ..	(a) 486 (b) 431	(a) 545 ..	(a) 422 (b) 566	..	..	..	504	..	473	..	917	..	..
Cuttack	(a) 1,043 (b) 984	(a) 922 (b) 1,081	(a) 1,061 (b) 1,047	(a) 488 (b) 979	(a) 1,269 (b) 611	(a) 986 (b) 736	..	1,880	..	..	..	..	..	..
Darbhanga	(a) 945 (b) 296	(a) 606 (b) 461	..	..	..	..	..	643	..	551	..	1,066	..	1,063
Gaya	(a) 879 ..	(a) 903 (b) 926	.. (b) 276	..	..	..	1,013	784	..	745	..	..	..	..
Hazaribagh	(a) 936 (b) 886	(a) 942 (b) 851	..	..	..	..	464	594	520	..	..	896	..	429
Manbhum	(a) 1,100 ..	(a) 859 ..	.. (b) 276	.. (b) 591	..	..	..	..	..	..	..	948	..	151
Monghyt	(a) 542 ..	(a) 566 (b) 546	..	..	..	..	669	548	..	236	..	..	..	..
Muzaffarpur	(a) 694 ..	(a) 803 ..	..	(a) 119 (b) 483	..	..	802	564	..	746	..	1,416	..	693
Palamau	(a) 619 (b) 586	(a) 474 (b) 709	(a) 824 ..	..	..	..	..	668	699	..	1,100	..	..	..
Patna	(a) 984 (b) 884	(a) 896 (b) 550	..	..	..	..	688	1,108	429	1,800	1,357	..	1,170	..
Puri	(a) 707 (b) 902	(a) 701 (b) 731	.. (b) 634	(a) 517 (b) 602	(b) 651	(b) 445	..	..	..	..	..	..	..	..
Purnea	(a) 1,556 ..	(a) 931 (b) 769	..	(b) 694	..	..	..	544	..	..	..	..	..	..
Ranchi	(a) 1,414 ..	(a) 1,065 (b) 844	..	.. (b) 624	..	..	1,270	1,044	..	..	..	..	..	752
Sambalpur	(a) 1,074 (b) 871	(a) 1,176 (b) 643	(a) 836 (b) 1,209	.. (b) 949	..	..	..	..	..	..	..	..	..	..
Santal Parganas	(a) 1,087 (b) 2,611	(a) 1,040 ..	(a) 1,188 ..	(a) 871 (b) 447	..	..	588	1,273	..	1,224	..	1,512	..	..
Saran	(a) 436 ..	(a) 454 (b) 636	..	.. (b) 458	..	..	732	808	425	584	1,131	800	..	657
Shahabad	(a) 532 (b) 1,202	(a) 723 (b) 817	..	..	..	..	949	297	..	..	617	272	..	..
Singbhum	(a) 977 (b) 946	(a) 832 (b) 760	.. (b) 931	(a) 720 (b) 533	..	..	..	..	..	..	..	570	..	..
Average for the Province (c)	(a) 875 (b) 914	(a) 799 (b) 745	(a) 891 (b) 660	(a) 587 (b) 645	(a) 1,269 (b) 631	(a) 986 (b) 590	..	785	490	794	1,051	889	1,170	688

(a) Transplanted.

(b) Broadcast.

(c) The provincial average stated here is merely the sum of the district averages divided by the number of districts. The standards adopted for the Province are stated in table No. 1.

CROPS in each DISTRICT of BIHAR AND ORISSA

GRAM		ARHAR (<i>Cajanus Indicus</i>)	PEAS		MASUR		RAPE AND MUSTARD	LINSEED	POTATO	SUGARCANE (<i>gur</i>)		JUTE		DISTRICT
Irrigated	Unirrigated		Irrigated	Unirrigated	Irrigated	Unirrigated				Irrigated	Unirrigated	Irrigated	Unirrigated	
..	..	..	..	..	..	..	380	..	..	2,164	..	..	..	Angul
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Balesore
517	344	..	..	..	..	..	..	..	..	1,136	..	..	483	Bhagalpur
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Champan
745	..	..	..	..	..	..	309	..	..	..	..	1,123	1,076	Cuttack
..	320	..	..	..	..	..	..	..	..	..	..	..	..	Darbhanga
1,054	661	..	..	..	2,172	..	..	..	..	4,937	..	..	..	Gaya
280	543	..	..	..	..	..	..	..	..	..	..	..	..	Hazaribagh
..	..	..	..	..	..	..	..	..	..	1,225	805	..	..	Manbhuan
87	..	..	..	..	..	..	..	..	..	..	..	..	..	Monghyr
401	684	809	..	..	..	..	297	142	13,739	..	..	..	..	Muzaffarpur
..	584	..	..	..	..	..	..	..	..	..	..	..	..	Palamau
658	844	..	543	783	1,168	908	..	..	..	..	..	..	..	Patna
..	..	..	..	..	..	..	..	..	..	1,300	..	..	..	Purl
..	..	..	..	..	..	..	721	..	..	..	..	..	971	Purnea
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Ranohi
..	..	..	..	..	..	..	..	..	..	4,879	..	..	..	Sambalpur
..	..	746	..	..	..	..	576	..	..	3,647	..	..	..	Santal Parganas
134	111	..	..	..	..	..	..	..	..	1,512	..	..	..	Saran
756	315	..	..	..	1,586	..	..	..	..	..	..	..	..	Shahabad
..	..	151	..	..	..	..	90	68	..	..	..	..	..	Singbhum
515	489	569	543	783	1,642	908	..	105	13,739	2,612	895	1,123	643	Average for the Province

No. 6.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each DISTRICT of BOMBAY PRESIDENCY

DISTRICT	RICE (husked)	WHEAT		JOWAR		BAJRA	RAGI		GRAM	
	Un-irrigated	Irrigated	Un-irrigated	Irrigated (a)	Un-irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
Ahmedabad	1,440	1,300	560	..	(b) 1,080	840	..	1,440	..	600
Ahmednagar	1,040	1,180	400	1,500	(a) 400	340	1,400	900	1,100	350
Belgaum	1,140	1,200	500	..	(a) 800	400	..	900	..	400
Bijapur	800	1,080	400	..	(a) 540	320	..	..	..	340
Broach	900	..	600	..	(a) 820	700	..	1,500	..	500
Dharwar	1,140	..	500	..	(a) 1,000	450	..	1,200	..	500
East Khandesh	1,080	1,280	600	..	(b) 720	380	..	900	1,200	500
Kaira	1,320	1,300	600	..	(b) 1,050	970	..	1,440	..	500
Kanara	1,320	..	..	..	..	..	..	1,470	..	480
Kolaba	1,200	..	..	..	..	..	..	800	..	380
Nasik	1,080	1,320	480	1,400	(a) 520	360	1,400	850	1,200	350
Panch Mahals	1,200	1,300	700	..	(b) 1,190	820	..	1,420	..	600
Poona	1,120	1,080	350	1,500	(a) 500	340	..	900	1,200	320
Ratnagiri	1,020	..	..	..	..	..	..	680	..	320
Satara	1,120	1,350	480	1,500	(a) 720	360	..	900	1,200	380
Sholapur	900	1,080	400	1,500	(a) 540	320	..	..	1,200	320
Surat	1,560	..	560	..	(b) 760	600	..	1,200	..	500
Thana	1,200	..	..	..	..	..	..	770	..	400
West Khandesh	1,080	1,280	600	..	(b) 720	500	..	900	1,200	500
Average for the Province	1,230	1,250	510	1,500	670	400	1,400	1,060	1,200	410
		675								

DISTRICT	LINSEED	SESAMUM (til or jinjili)	SUGAR-CANE (gur)	COTTON (cleaned)	RAPE AND MUSTARD	SPELT	KODRA (Paspalum Scribnerianum)	GROUNDNUT	
	Un-irrigated	Un-irrigated	Irrigated	Un-irrigated	Un-irrigated	Irrigated	Un-irrigated	Irrigated	Un-irrigated
Ahmedabad	350	400	6,000	125	640	..	1,320	..	800
Ahmednagar	360	400	7,000	90	..	1,500	..	2,500	1,000
Belgaum	360	400	7,000	100	..	1,500	..	2,500	1,500
Bijapur	360	400	7,000	90	..	1,500	..	2,500	1,250
Broach	..	400	7,000	130	..	..	1,050	..	..
Dharwar	360	400	7,000	120	..	1,500	..	2,500	1,200
East Khandesh	360	400	7,000	110	..	1,500	900	2,500	1,000
Kaira	..	400	6,000	115	675	..	1,275	..	..
Kanara	..	300	6,000	..	..	..	..	..	..
Kolaba	..	300	4,000	..	..	..	800	..	1,250
Nasik	360	400	7,000	100	..	1,500	..	2,500	1,000
Panch Mahals	..	400	5,000	120	600	..	1,130	..	1,000
Poona	360	400	8,000	90	..	1,500	..	2,500	1,000
Ratnagiri	..	300	4,000	..	..	..	675	..	..
Satara	360	400	7,000	90	..	1,500	..	2,500	1,500
Sholapur	360	400	7,000	90	..	1,500	..	2,500	1,000
Surat	..	400	7,000	120	..	..	1,120	2,500	1,000
Thana	..	300	7,000	..	..	..	640	..	1,250
West Khandesh	360	400	7,000	110	..	1,500	900	2,500	1,000
Average for the Province	360	400	6,950	102	625	1,500	1,100	2,500	1,150

(a) Rabi

(b) Kharif

No. 6A.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each DISTRICT of SIND

DISTRICT	RICE (husked)	WHEAT		BARLEY		JOWAR		BAJRA		GRAM		SESAMUM (til or jinjili)	COTTON (cleaned)	RAPESEED	JAMBHO (Eruca sativa)	SUGARCANE (gur)	CASTOR	PRAS			
	Irrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Unirrigated			
Padu	1,523	1,249	1,416	..	..	1,437	..	..	..	..	..	..	..	..	546	..	..	..
Hyderabad	960	640	480	..	..	480	320	560	320	..	..	..	220	..	..	7,200	..	..	
Karachi	772	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Larkana	1,576	1,015	650	..	..	834	..	..	..	..	..	..	..	320	290	..	..	..
Nawabshah	1,653	1,374	1,145	485	300	1,151	1,000	635	800	575	532	210	..	..	..	..	..	..
Sukkur	927	785	484	544	544	608	..	532	428	..	536	160	..	..	..	..	..	..
Thar Parkar	1,600	820	525	..	..	..	..	640	322	..	..	..	240	320	239	..	..	..
Upper Sind Frontier	1,514	984	822	..	..	700	600	606	600	906	544	320	320	..	377	368	388	426	
Right Bank or other Sind Districts	..	..	..	..	..	..	..	..	..	..	..	..	220	..	..	..	..	..
Average for the Province	1,255	937	704	495	397	849	643	596	322	589	547	284	320	222-223	376	362	493	370	7,200	225	454

No. 7.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each DISTRICT of BURMA

DISTRICT	Rice (cleaned) (a)	Wheat	Jowar	Maize	Sesamum (til or jinjili)	Groundnut	Cotton (cleaned)	Beans		
								Pegyi*	Pogyat	Polygalat
Akyah	1,030	..	..	..	..	..	..	..	..	..
Amherst	800	..	..	..	..	..	..	..	..	..
Arakan Hill Tracts	870	..	..	..	..	..	..	..	..	..
Bassein	1,030	..	..	..	..	..	..	..	..	..
Bhamo	870	..	..	..	..	..	..	..	..	..
Hanthawaddy	1,100	..	..	..	..	..	..	..	..	..
Henzada	1,100	..	..	850	..	..	..	530	..	..
Insein	1,000	..	..	..	..	..	..	..	..	..
Katha	930	..	..	..	..	..	..	..	..	..
Kyaukpyn	900	..	..	..	..	..	..	..	..	..
Kyaukse	970	..	..	..	200	..	..	..	..	770
Lower Chindwin	670	550	480	490	150	850	110	..	870	600
Magwe	670	..	..	850	200	1,300	95	500	..	..
Mandalay	1,000	..	..	..	200	..	..	630	..	1,140
Maubin	1,070	..	..	800	..	..	..	..	..	..
Meiktila	730	..	..	610	150	850	95	..	410	700
Mergui	830	..	..	..	..	..	..	..	..	..
Minbu	1,070	..	..	800	175	..	..	770	1,162	..
Myaungmya	1,130	..	..	..	..	..	..	..	..	..
Myingyan	670	..	380	660	125	850	105	..	700	640
Myithyina	970	..	..	..	..	..	..	..	..	..
Pakokku	670	..	500	600	150	900	95	400	..	000
Pegu	1,100	..	..	..	..	..	..	..	..	..
Prome	830	..	..	..	..	..	..	550	..	..
Pyapón	1,130	..	..	..	..	..	..	..	..	..
Rangoon	1,000	..	..	..	..	..	..	..	..	..
Sagaing	670	550	470	490	125	850	110	480	1,000	700
Salween	870	..	..	..	..	..	..	..	..	..
Sandoway	870	..	..	..	..	..	..	..	..	..
Shwebo	830	512	..	..	150	850	95	..	1,070	..
Tavoy	870	..	..	..	..	..	..	..	..	..
Tharrawaddy	1,130	..	..	..	..	..	..	300	..	..
Thatón	870	..	..	..	..	..	..	..	..	..
Thayetmyo	770	..	..	610	150	..	95	..	..	..
Toungoo	830	..	..	..	200	..	..	..	..	..
Upper Chindwin	870	..	..	..	..	..	..	..	..	..
Yaméthin	830	..	..	500	175	850	95	720	..	..
Average for the Province	1,000	540	450	680	160	1,000	110	600	700	700

* Dolichos lablab (large white). † Phaseolus lunatus (red). ‡ Phaseolus lunatus (small white).
(a) In converting paddy into 'cleaned rice', 3 lbs of paddy have been taken as equivalent to 2 lbs of cleaned rice.

APPENDIX A—continued

No. 8.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each DISTRICT of the CENTRAL PROVINCES and BERAR

DISTRICT	RICE (husked)		WHEAT		JOWAR	GRAM	LINSEED	SESAMUM (til or jinjili)	SUGARCANE (gur)		COTTON (clean- ed)
	Irrig- ated	Unirri- gated	Irrig- ated	Unirri- gated	Unirri- gated	Unirri- gated	Unirri- gated	Unirri- gated	Irrig- ated	Unirri- gated	Unirri- gated
Balaghat	{ (a) 990 (b) 835 }	{ (a) 650 (b) 560 }	..	500	350	550	200	300	4,500	..	50
Batal . . . . .	..	(b) 435	1,000	620	550	500	200	180	4,000	..	80
Bhandara	{ (a) 930 (b) 835 }	{ (a) 650 (b) 560 }	..	500	450	480	200	300	3,000	..	50
Bilaspur	{ (a) 990 (b) 868 }	{ (a) 620 (b) 620 }	..	500	350	450	180	150	3,500	1,000	50
Chanda	{ (a) 990 (b) 930 }	{ (a) 650 (b) 560 }	..	500	650	550	250	200	4,500	..	90
Chhindwara . . . . .	..	(b) 435	1,000	500	600	500	220	180	3,200	..	100
Drug	{ (a) 900 (b) 930 }	{ (a) 620 (b) 620 }	..	500	350	450	180	150	3,000	1,000	50
Damoh . . . . .	..	(b) 560	..	600	580	480	200	150	2,500	1,000	60
Hoshangabad . . . . .	..	(b) 435	..	570	450	520	250	250	3,000	1,000	80
Jubbulpore . . . . .	..	{ (a) 620 (b) 495 }	..	570	450	600	250	150	3,500	1,000	67
Mandla . . . . .	..	{ (a) 650 (b) 525 }	..	550	350	580	200	150	3,000	..	60
Nagpur	{ (a) 900 (b) 930 }	{ (a) 650 (b) 560 }	1,000	500	600	580	280	300	3,000	..	100
Narsinghpur . . . . .	..	(b) 435	..	620	450	600	280	200	3,000	1,000	80
Nimar . . . . .	..	(b) 620	1,000	640	600	500	200	250	3,500	..	107
Raipur	{ (a) 990 (b) 868 }	{ (a) 620 (b) 620 }	..	500	350	450	180	150	3,500	1,000	50
Saugor . . . . .	..	(b) 560	1,000	550	530	500	280	150	3,000	1,000	60
Seoni	{ (a) 990 (b) 930 }	{ (a) 650 (b) 545 }	..	550	450	500	250	150	2,500	..	60
Wardha . . . . .	..	(b) 435	1,000	500	700	580	300	300	3,000	..	100
Average for the Central Provinces	648		552		591	533	212	201	3,407		98
Akola . . . . .	..	(b) 435	..	500	700	550	330	300	3,000	..	107
Amraoti . . . . .	..	(b) 435	..	500	700	550	330	300	3,000	..	107
Buldana . . . . .	..	(b) 435	1,000	500	700	550	330	300	2,000	..	103
Yotmal . . . . .	..	(b) 435	..	500	700	550	330	300	3,000	..	100
Average for Berar	434		506		700	550	330	300	3,000		104
Average for the Central Provinces and Berar	618		548		646	534	215	210	3,390		102

(a) Transplanted.

(b) Broadcast.

No. 9.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in COORG

DISTRICT	RICE (husked)		RICE STRAW (bye-product)	
	Unirrigated		Unirrigated	
Coorg	1,580		2,160	

No. 10.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in DELHI

DISTRICT	WHEAT			BARLEY			JOWAR			BAJRA		
	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both
Delhi	1,148	656	982	1,079	707	924	735	510	530	588	406	409

DISTRICT	MAIZE			GRAM			SUGARCANE			COTTON (Cleaned)		
	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both
Delhi	958	629	849	738	562	589	2,410	1,780	2,386	193	144	185

DISTRICT	RAPESEED			SESAMUM (til or jinjili)			TOBACCO		
	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both	Irrigated	Unirrigated	Both
Delhi	325	325	325	325	325	325	2,500	..	2,500

APPENDIX A—continued.

No. 11.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each DISTRICT of MADRAS

DISTRICT	RICE (husked) (a)		JOWAR (a)		BAJRA (a)		RAGI (a)		Maize (a)	Sesamum (til or jinjili)	Sugar-cane (gur)	COTTON* (cleaned)		Ground-nut	Castor	Tobacco (in dry leaf)
	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated				Irrigated	Unirrigated			
Anantapur	1,139	536	1,190	382	960	320	1,395	540	600	224	4,300	(b)	50		150	1,000
Bollary	1,139	603	1,275	382	1,040	360	900	405	600	224	6,000	(b)	50		150	1,000
Chingleput	1,038	737	1,190	510	800	520	990	540	600	280	6,000	(b)	50		250	1,000
Chittoor	1,273	670	1,275	510	800	520	1,620	630	600	280	7,300	250	55		250	1,000
Coimbatore	1,273	536	1,275	510	960	320	1,530	720	600	280	7,500	239	75		400	1,200
Cuddapah	1,206	603	1,275	535	1,040	560	1,485	540	600	224	6,000	(b)	50		150	1,000
East Godavari	1,340	603	1,105	595	960	504	1,080	720	600	336	7,500	(b)	75		250	1,300
Ganjam	871	536	1,020	595	960	520	990	630	600	280	5,000	(b)	50		250	1,000
Guntur	1,206	737	1,105	535	960	504	1,710	720	660	280	7,500	(b)	75		250	1,300
Kistna	1,206	670	1,105	595	960	504	1,440	720	660	336	7,500	(b)	75		250	1,300
Kurnool	1,072	670	1,190	535	960	440	1,440	585	600	224	4,500	(b)	50		150	1,000
Madura	1,306	603	1,190	510	800	360	1,260	585	600	280	6,000	250	107		400	1,200
Malabar . . . . .	..	938	..	595	..	480	..	1,350	600	224	6,000	..	50	1,120	400	1,200
Nellore	1,038	737	1,105	510	1,040	560	1,485	540	600	280	6,000	(b)	75		250	1,300
Nilgiris . . . . .	..	1,206	..	425	..	300	..	900	600	280	6,000	..	..		400	1,200
North Arcot	1,273	737	1,275	510	960	520	1,395	720	600	280	6,000	250	50		250	1,000
Ramnad	1,206	737	1,190	340	800	320	1,350	360	600	280	4,500	250	109		400	1,200
Salem	1,273	536	1,275	510	1,040	480	1,395	675	600	280	6,000	250	79		400	1,200
South Arcot	1,239	737	1,275	510	800	560	1,350	720	600	280	6,500	250	59		250	1,000
South Kanara . . . . .	..	1,005	..	..	..	..	..	900	600	280	5,400	..	50		400	1,200
Tanjore	1,172	737	1,105	425	960	560	990	450	600	336	6,000	..	65		400	1,200
Tinnevely	1,340	670	1,275	297	800	360	1,440	450	600	280	4,500	250	110		400	1,200
Trichinopoly	1,273	670	1,275	425	960	400	1,260	585	600	336	5,000	250	65		400	1,200
Vizagapatam	938	536	1,105	595	960	560	1,080	630	600	336	6,500	(b)	50		250	1,000
West Godavri	1,340	670	1,105	595	960	504	1,170	720	600	336	7,500	(b)	75		250	1,300
Average for the Province	1,170	769	1,240	490	962	433	1,307	661	635	301	6,380	242	73	1,120	231	1,203
	1,055		564		494		947					87				

NOTE.—The figures of yield are taken from the Season and Crop Report of Madras for 1930-31.

* The figures of normal yield per acre in the South have been arrived at with reference to the distribution of the several varieties and hence they vary from year to year according to the distribution. Figures of average yield per acre for each variety are irrigated Cambodia 250 lbs; irrigated Karunganni in Coimbatore 150 lbs; dry Cambodia 80 lbs in Salem, Coimbatore and Trichinopoly; 100 lbs in Madura, Ramnad and Tinnevely; 50 lbs elsewhere; Uppam 65 lbs; dry Karunganni in Coimbatore 85 lbs, Nadam and Bourbon 20 lbs, and Tinnevelies 110 lbs.

(a) The yield reported in unhusked grain has been reduced by 33 per cent in the case of rice, 15 per cent in the case of jowar, 20 per cent in the case of bajra, 10 per cent in the case of ragi and 40 per cent in the case of maize.

(b) There is a small area under irrigation in these districts.

No. 12.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each DISTRICT of the NORTH-WEST FRONTIER PROVINCE

DISTRICT	RICE (husked)	WHEAT		BARLEY		JOWAR		BAJRA	
	Irrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated
Bannu . . . . .	..	741	514	709	453	..	..	617	412
Dera Ismail Khan . . . . .	..	741	535	617	329	494	329	453	329
Hazara	823	741	473	782	535	..	..	494	329
Kohat . . . . .	..	823	494	823	535	..	..	1,029	494
Kurram	864	823	329	1,070	..	..	..	..	..
Peshawar	925	880	520	909	615	987	412	..	..
North Waziristan . . . . .	..	823	..	1,029	..	..	..	..	..
Average for the Province	862	824	514	912	504	806	342	694	408
		626		709		495		417	

DISTRICT	MAIZE		GRAM		RAPESEED		SUGAR-CANE (GWT)	COTTON (CLEANED)	
	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Irrigated	Unirrigated
Bannu	864	..	741	412	412	288	1,975	113	57
Dera Ismail Khan . . . . .	..	..	617	412	370	288	..	82	62
Hazara	1,316	741	..	..	433	329	1,975	93	67
Kohat	1,029	617	..	453	329	247	..	93	61
Kurram	1,153	..	..	..	..	..	..	..	..
Peshawar	1,442	677	411	383	541	376	2,541	110	64
North Waziristan	1,481	..	..	..	..	..	..	62	..
Average for the Province	1,209	734	629	417	439	302	2,477	107	64
	1,023		419		329			179	

DISTRICT	RICE (HUSKED)		WHEAT		BARLEY		JOWAR		BAJRA	
	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated
Amabala	1,100	840	1,000	700	1,000	600	520	420	520	360
Amritsar	1,700	840	1,000	610	1,000	620	400	350	..	..
Attock . . . . .	..	..	1,000	470	1,100	480	..	330	900	400
Dera Ghazi Khan	820	780	820	540	750	540	400	400	420	400
Ferozopore	1,000	600	950	450	1,080	550	500	320	500	320
Gujranwala	1,320	820	930	600	740	400	500	420	480	330
Gujrat	1,320	1,150	1,000	640	1,100	620	540	360	600	500
Gurdaspur	1,400	1,040	1,100	640	1,000	800	580	500	650	510
Gurgaon . . . . .	..	..	1,050	570	1,200	600	600	440	520	400
Hissar	920	920	1,000	400	1,100	500	440	200	460	300
Hoshiarpur	1,400	1,000	1,000	700	1,000	750	..	..	530	350
Jhang	860	650	850	500	740	550	700	410	600	410
Jhelum . . . . .	..	820	1,100	600	1,000	620	..	270	800	430
Jullundur	900	780	1,250	680	1,075	600	500	420	410	330
Kangra	1,300	670	510	480	600	530	..	..	..	..
Karnal	920	600	1,000	520	1,000	450	520	300	500	300
Lahore	1,500	630	1,000	460	1,200	600	650	420	500	450
Ludhiana	900	500	1,130	720	1,100	500	570	530	400	370
Lyallpur	1,200	..	1,070	500	900	..	600	..	580	..
Mianwall . . . . .	..	..	720	510	900	450	560	470	600	460
Moutgomery	1,500	1,150	1,030	570	960	620	500	420	500	400
Multan	1,000	..	870	465	800	500	450	400	470	400
Muzaffargarh	1,100	900	800	450	700	520	410	370	500	320
Rawalpindi	1,000	..	1,000	560	1,080	600	..	300	640	410
Rohtak	1,000	..	1,100	520	1,200	600	800	400	500	420
Shahpur	1,000	820	900	610	900	400	560	320	600	490
Sheikhupura	1,600	1,100	900	500	900	500	500	420	600	300
Sialkot	1,420	800	1,020	650	800	670	..	..	500	400
Simla . . . . .	..	..	600	400	..	..	..	..	..	..
Average for the Province	1,312	789	987	572	1,004	560	508	352	508	429
	1,212		791		722		385		414	

CROPS in each DISTRICT of the PUNJAB

MAIZE		GRAM		RAPESEED		SUGARBEET (gur)		COTTON (CLEANED)				Tobacco	District
Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	DESI		AMERICAN		Irrigated	
								Irrigated	Unirrigated	Irrigated	Unirrigated		
1,100	700	980	610	520	380	2,200	1,400	150	130	..	..	..	Ambala
1,070	700	700	660	700	560	1,900	1,150	150	90	..	..	940	Amritsar
1,600	510	550	460	420	340	780	..	110	50	..	..	2,100	Attock
..	..	430	430	240	240	..	..	80	60	..	..	960	Dera Ghazi Khan
1,100	500	800	500	450	300	..	..	110	60	115	80	..	Ferozepore
820	580	650	580	400	300	1,800	650	110	70	170	90	930	Gujranwala
1,000	750	660	650	480	300	1,300	780	110	80	120	90	980	Gujrat
1,000	770	700	700	600	320	2,000	1,460	160	120	..	..	..	Gurdaspur
..	..	900	500	600	370	1,720	930	140	70	..	..	..	Gurgaon
1,070	800	680	420	400	400	2,500	..	150	90	..	..	..	Hissar
1,400	940	820	600	480	360	2,800	1,800	180	130	..	..	1,200	Hoshiarpur
900	500	650	550	450	240	1,300	..	100	60	110	..	600	Jhang
1,040	800	800	610	420	350	..	..	146	61	..	..	..	Jhelum
1,450	600	900	600	450	265	3,000	1,400	180	110	..	..	1,500	Jullundur
1,000	700	..	460	360	225	..	1,200	64	50	..	..	..	Kangra
1,120	600	950	450	560	360	2,250	1,150	150	80	..	..	..	Karnal
1,000	500	900	700	500	300	2,000	1,000	110	70	150	72	900	Lahore
1,400	720	900	520	730	430	2,500	1,500	190	82	..	..	1,250	Ludhiana
1,300	..	830	500	640	300	2,250	..	140	..	150	..	..	Lyallpur
..	..	640	520	330	330	..	..	80	50	..	..	..	Mianwali
800	560	880	510	460	400	1,100	..	120	70	140	80	980	Montgomery
800	500	425	395	400	240	1,430	..	90	62	105	75	640	Multan
..	..	420	400	360	300	1,130	1,080	90	50	..	..	600	Muzaffargarh
1,280	800	..	600	360	350	..	..	116	100	..	..	..	Rawalpindi
..	..	820	500	500	440	2,600	1,300	160	70	..	..	..	Rawatki
800	640	670	560	420	300	1,600	..	110	35	120	74	700	Sialpur
900	550	800	660	530	350	2,160	1,070	100	80	170	60	1,700	Sheikhpura
1,000	700	600	560	500	320	1,800	1,200	140	100	..	..	940	Sialkot
..	..	..	..	..	..	..	..	..	..	..	..	..	Simla
1,177	760	769	517	518	241	2,046	1,470	126	97	130	72	1,078	Average for the Province
951		585		428		1,951		123		130			

APPENDIX A—continued

No. 14.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS

GROUP AND DISTRICT*	RICE (husked)		WHEAT		BARLEY		JOWAR	BAJRA	MAIZE	GRAM	
	Irrigated	Unirrigated	Irrigated	Unirrigated	Irrigated	Unirrigated	Un-irrigated	Un-irrigated	Un-irrigated	Irrigated	Un-irrigated
Almora { Naini Tal . . . Almora . . . Garhwal . . . Dohra Dun . . .	1,500	1,400	1,250	1,000	..	..	..	..	..	..	..
Dahraich { Bahraich . . . Pilibhit . . . Kheri . . .	1,050	900	1,300	650	1,300	800	600	550	1,300	1,000	600
Ballia { Ballia . . . Ghazipur . . . Azamgarh . . .	1,200	800	1,250	750	1,300	900	650	700	1,000	950	900
Banda { Banda . . . Hamirpur . . .	800	700	900	550	1,000	500	550	400	650	800	750
Basti { Basti . . . Gonda . . . Gorakhpur . . .	1,050	900	1,250	800	1,300	750	650	400	1,000	700	600
Bonares { Benares . . . Jaunpur . . . Mirzapur . . .	1,000	700	1,100	600	1,300	900	650	500	1,000	800	650
Budaun { Budaun . . . Shahjahanpur . . .	950	750	1,250	850	1,250	1,000	650	600	1,200	1,000	800
Bulandshahr { Bulandshahr . . . Aligarh . . .	1,000	700	1,300	900	1,500	1,000	650	550	1,100	1,000	800
Fatehpur { Fatehpur . . . Cawnpore . . . Allahabad . . .	1,050	800	1,150	600	1,300	700	650	550	1,000	900	900
Jhansi { Jhansi . . . Jalaun . . .	800	550	1,000	650	1,000	500	550	400	650	700	550
Mainpuri { Mainpuri . . . Etah . . . Etawah . . . Farrukhabad . . .	950	700	1,150	700	1,300	800	650	550	1,200	1,000	700
Moradabad { Moradabad . . . Saharanpur . . . Bijnor . . . Bareilly . . .	1,050	800	1,150	800	1,300	1,000	680	500	900	1,000	650
Muttra { Muttra . . . Agra . . .	850	550	1,200	700	1,400	750	650	650	800	1,000	700
Muzaffarnagar { Muzaffarnagar . . . Meerut . . .	1,000	800	1,300	800	1,500	1,000	650	450	1,200	1,000	800
Sitapur { Sitapur . . . Hardoi . . .	1,000	800	1,250	900	1,300	1,100	650	550	1,200	950	900
Sultanpur { Sultanpur . . . Bara Banki . . . Parabgarh . . . Fyzabad . . .	1,100	900	1,150	650	1,500	800	600	650	1,100	1,000	950
Unao { Unao . . . Lucknow . . . Nae Bareilly . . .	950	800	1,250	750	1,400	700	650	600	1,100	1,000	900
Average for the Province	1,100	850	1,200	800	1,350	900	600	550	1,050	900	750
	600		1,000		1,150					750	

* The districts are grouped into agricultural regions, and the determinations made in the representative district of each region are applied to the whole of that region.

in each DISTRICT of the UNITED PROVINCES

PEAS (<i>Pisum sativum</i>)		ARHAR (<i>Cajanus indicus</i>)	LINSEED	SESAMUM (til or jinjili)	RAPE AND MUSTARD	SUGAR- CANE (gur)	COTTON (cleaned)		INDIGO (dye)	GROUP AND DISTRICT
Irrigated	Un- irrigated	Un- irrigated	Un- irrigated	Un- irrigated	Un- irrigated	Irrigated	Irrigated	Un- irrigated	Irrigated	
..	..	..	..	..	..	..	..	..	..	{ Naini Tal Almora Garhwal Dehra Dun } Almora
850	600	550	500	330	700	2,000	..	110	..	{ Bahraich Fatehpur Kheri } Bahraich
1,200	650	900	650	280	660	3,200	..	100	10	{ Ballia Ghazipur Azamgarh } Ballia
..	..	500	500	280	..	1,500	..	120	..	{ Banda Hamirpur } Banda
1,100	600	700	500	280	570	3,200	..	100	19	{ Basti Gonda Gorakhpur } Basti
1,200	550	700	500	280	..	3,200	..	100	19	{ Benares Jaunpur Mirzapur } Benares
650	400	..	400	320	430	2,400	..	120	18	{ Budaun Fatehpur } Budaun
1,000	650	..	..	350	490	2,000	220	130	10	{ Bulandshahr Aligarh } Bulandshahr
800	550	550	400	320	..	2,650	..	120	17	{ Fatehpur Cawnpore Allahabad } Fatehpur
..	..	..	450	280	..	1,500	..	100	..	{ Jhansi Jalaun } Jhansi
800	550	..	..	410	..	2,200	230	160	15	{ Mainpuri Etah Etawah Farrukhabad } Mainpuri
750	500	..	400	320	430	2,450	..	120	18	{ Moradabad Nahanpur Bijnor Bareilly } Moradabad
850	400	..	..	410	..	2,000	230	150	15	{ Muttra Agra } Muttra
800	550	..	..	350	490	2,800	220	140	19	{ Muzaffarnagar Meerut } Muzaffarnagar
1,000	650	600	500	300	570	2,800	..	110	..	{ Sitapur Hardoi } Sitapur
1,200	650	850	500	300	..	2,800	..	110	20	{ Sultanpur Bara Banki Parturghat Fyzabad } Sultanpur
1,150	650	700	400	300	490	2,600	..	120	..	{ Unao Lucknow Hao Bareilly } Unao
1,100	600	750	500	280	600	2,700	230	130	15	Average for the Province
950							170			

APPENDIX A—concluded

No. 15.—AVERAGE YIELD (lb per acre) of PRINCIPAL CROPS in each DISTRICT of the MYSORE STATE

DISTRICT	RISE (UNHUSKED)	RAGI	HORSE GRAM (<i>Dolichos biflorus</i>)	SESAMUM (TIL OR JINJILI)	SUGARCANE (<i>gur</i>)	COTTON (CLEANED)
	Irrigated	Unirrigated	Unirrigated	Unirrigated	Irrigated	Unirrigated
Bangalore	1,810	1,400	560	420	4,002	..
Chitaldrug	870	650	338	270	1,896	28
Hassan	1,240	900	538	562	2,296	84
Kadur	2,228	1,050	530	912	4,366	..
Kolar	1,181	1,035	334	220	4,175	70
Mysore	2,038	892	512	..	7,364	91
Shimoga	830	600	410	285	1,904	87
Tumkur	1,087	1,025	572	190	3,995	125
Average for the State .	1,003	1,016	455	411	3,639	44

APPENDIX B

VERNACULAR TERMS USED IN VOLUME I OF AGRICULTURAL
STATISTICS OF INDIA

- Agasi, agati, or avati* (*Sesbania grandiflora*)—A vegetable crop.
- Ajmud* (*Carum Roxburghianum*)—A kind of spice.
- Ajwan* (*Carum copticum*)—A kind of spice, "Bishop's weed".
- Akurkura or jevandi* (*Chrysanthemum coronarium*)—A non-food crop.
- Amada or mamidi allam* (*Curcuma amada*)—A condiment.
- Ampazham* (*Sponus magnifera*)—The hog plum.
- Arhar* (*Cajanus indicus*)—The pigeon pea.
- Arunelli* (*Phyllanthus distichus*)—Country star gooseberry.
- Bajra* (*Pennisetum typhoideum*)—The spiked millet.
- Bané* (Coorg)—Forest land granted for the service of the holding of rice-fields to which it is allotted, to be held free of revenue for grazing, leaf manure, firewood, and for timber required for the farm.
- Barbati* (*Vigna catjang*)—Asparagus, a food grain.
- Barti* (see Wudalu).
- Bel* (*Ægle Marmelos*)—A fruit.
- Bhagdari* (see Narvadari).
- Bilimbi* (*Averrhoa Bilimbi*)—A fruit.
- Bimb* (*Cephalandra indica*)—A fruit.
- Chaplash* (*Artocarpus Chaplasha*)—A tree grown mainly for timber.
- Chayroot* (*Oldenlandia umbellata*)—A dye.
- Cheenu* (*Panicum miliaceum*)—The common millet.
- Cheik* (*Coix lachryma-jobi*)—A food grain, "Job's Tear".
- Chikkudukayalu* (*Dolichos lablab*)—The Indian or popat bean.
- Cholanathu* (*Andropogon sorghum*)—Fodder jowar.
- Cholum* (see Jowar).
- Chowli* (see Barbati).
- Cumbu* (see Bajra).
- Dani* (*Nipa fruticans*)—A soboliferous palm, the leaves of which are used for thatching purposes, also for matting.
- Dao-tax* (Assam)—A tax levied in Sylhet upon male Tepperas who cultivate by jhumming.
- Dhaincha* (*Sesbania aculeata*)—A plant cultivated mainly for green manure.
- Dhatura* (*Datura alba*)—A drug.
- Dividivi* (*Casalpinia coriara*)—A tanning material.
- Dolois* (Assam)—The Headman of a group of villages in the Jowai Sub-division of the Khasi and Jaintia Hills district.
- Gajar*—Carrot.
- Garmal* (*Coleus barbatus*)—A fruit.
- Gondli* (see Kutki).
- Gorait* (United Provinces)—Village watchman.
- Gountiai* (Orissa).—A form of village headman tenure in which the land revenue assessed on a village is collected and paid to Government by the village headman. As remuneration for the work of collection of the land revenue, the village headman receives in revenue-free home-farm land or, in cash, 25 per cent. of the rents settled as payable by the raiyots. He possesses no proprietary rights in the village except on the home-farm lands. He has certain rights of management over the whole village and can alienate his tenure if accompanied by a transfer of the home-farm land.
- Henna* (*Lawsonia alba*)—A dye.
- Indam* (Madras)—Alienated villages or lands granted rent-free. *Whole indam* villages are entire villages held on such tenure; *minor indams* are portions of villages, generally a number of fields, held on *indam* tenure.
- (Coorg)—A grant of land by Government as a reward for services rendered or for religious or charitable purposes.
- Isifat* (Bombay)—A form of service tenure.
- Isfagul* (*Plantago ovata*)—A drug.
- Istamrdri* (Punjab, Ajmer-Merwara)—A tenure which, though the revenue is assigned, is charged with a permanently fixed quit-rent.
- Isdra* (Berar)—Land leased under the waste-land rules on stipulated terms.
- Jagir* (Berar)—Alienated villages or lands granted as rewards for service either rent-free or on payment of a quit-rent; such lands are hereditary.

APPENDIX B—*continued*VERNACULAR TERMS USED IN VOLUME I OF AGRICULTURAL
STATISTICS OF INDIA—*continued*

- Jagir* (Ajmer-Merwara)—Land granted revenue-free on condition of military service or as a charitable endowment.
- (Bombay)—Estates held hereditarily or for one or more generations on political considerations, no condition of service being attached to them.
- (Coorg)—Lands granted rent-free (1) to individuals on account of services rendered to the State by themselves or their ancestors, and (2) to some religious institutions.
- Jambo or naval*—Black plum.
- Jamma* (Coorg)—A tenure under which lands are held on half the ordinary assessment on condition that the holders should perform certain services to Government if required, such as escorting Government treasure and rendering assistance to revenue officers on tour. These lands are inalienable without special sanction.
- Jenugulu*—Asparagus.
- Jinjili* (*Sesamum indicum*)—An oilseed.
- Jira*—Caraway.
- Jodi* (Madras)—Portion of the assessment reserved or left unalienated when lands were originally granted on favourable assessment. It is distinguished from quit-rent, which represents an additional charge (generally a certain proportion—one-eighth, one-fourth, one-half, or five-eighths—of the full assessment, *minus* the *jodi*) imposed when the tenures were enfranchised or converted into free-holds.
- Jowar* (*Sorghum vulgare*)—The great millet.
- Kalpayaru*—Kidney bean.
- Kamranga* (*Averrhoa Carambola*)—A fruit.
- Kanda* (*Dracontium*)—A vegetable crop.
- Kangni* (*Panicum Italicum*)—Italian millet.
- Kankrol* (*Momordica cochinchinensis*)—A vegetable crop.
- Karola* (*Momordica Charantia*)—A vegetable crop.
- Karuvapilai* (*Murraya Koenigii*)—A condiment.
- Kavali* (*Sterculia urens*)—The Indian katura, a fruit.
- Kavathu* (*Dioscorea alata*)—A tuber used as a food stuff.
- Khdlsa* (Bombay)—Government occupancy or raiyatwari tenure.
- (Central Provinces)—Areas settled on malguzari or thekadari tenure, in contradistinction to zamindari.
- (Berar, Ajmer-Merwara)—Land paying full revenue to Government.
- Khatedar* (Berar)—A registered occupant whose name is entered by authority in the Government records as holding unalienated land.
- Khiraj* (Assam)—Land assessed to full revenue.
- Khoti* (Bombay)—A form of tenure, found chiefly in the Konkan, the holder of which is in return for certain semi-proprietary rights, held responsible for payment of assessment on the area held.
- Kirni* (*Mimusops hexandra*)—A large tree cultivated chiefly in north-western India. It produces an olive-shaped yellow berry which is eaten chiefly during times of scarcity, and in the hot weather.
- Kodo or Kutki* (*Paspalum Scrobiculatum*)—A kind of millet.
- Kolinji* (*Tephrosia purpurea*)—A drug.
- Koorka* (*Strobilanthes*)—A vegetable crop.
- Korai*—The Indian matting sedge.
- Kuhudi* (*Panicum trypheron*)—A food grain.
- Kulthi* (*Dolichos biflorus*)—Horse gram.
- Kutki* (*see* Kodo).
- Kwin* (Burma)—An area averaging about one square mile selected as a survey unit on account of some natural features or administrative boundaries.
- Lakhiraj* (Assam)—Revenue-free land.
- Lobia* (*see* Barbati).
- Madder* (*Rubia tinctorum* and *R. cordifolia*)—A dye.
- Mahalkari* (Bombay)—A revenue and police officer in charge of a sub-division of a taluk.
- Mokham sim*—The sword bean.
- Malguzari* (Central Provinces)—A form of tenure, the holder of which is responsible for the payment of the revenue assessed on a village.
- (Orissa)—A form of proprietary tenure, where the estate is held either revenue-free or at a nominal quit-rent. The holder possesses full proprietary rights in the estate.

APPENDIX B—continued

VERNACULAR TERMS USED IN VOLUME I OF AGRICULTURAL
STATISTICS OF INDIA—continued

- Mamlatdar* (Bombay)—The chief revenue and police officer (native) in charge of a taluk.
- Mankachu* (*Alocasia indica*)—A root crop.
- Marua* (*Eleusine coracana*)—A kind of millet.
- Marukkolundu* (*Artemisia vulgaris*)—The Indian worm wood.
- Mehwasi* (Bombay)—A proprietary tenure assessable to revenue at a lump sum.
- Muafi* (Manpur)—Any kind of land held revenue-free either for a fixed period or in perpetuity, but the term does not ordinarily apply to jagirs.
- Mung* (*Phaseolus Mungo*)—Green gram.
- Munsarim* (Berar)—A head native revenue officer.
- Narvadari, Bhagdari* (Bombay)—Forms of proprietary tenure involving joint responsibility for the assessment: the revenue in the former case being fixed in the lump and in the latter distributed by rates over fields.
- Nem or Margosa* (*Melia azadirachta*)—A non-food crop.
- Neerali* (*Gynocordia odorata*)—An oilseed.
- Nela mulaka* (*Solanum xanthocarpum*)—The bogoda brinjal, a drug.
- Nisfkhiraj* (Assam)—Land liable to pay half the revenue which is ordinarily payable for the term of settlement.
- Odamula* (*Ochalandra Rheedii*)—A reed.
- Ol or zaminkand*—The elephant foot, a root crop.
- Palampat* (Berar)—Land held on payment of a quit-rent, but not necessarily hereditary.
- Panchayat* (Bengal)—A committee of five respectable persons nominated or appointed by local officers of Government in a village or group of villages for the settlement of petty disputes among the people and for dealing with other small local matters, such as caste, occupation, sanitation, etc.
- Papay* (*Carica papaya*)—A fruit.
- Parpatligar* (Coorg)—A revenue officer in charge of a sub-division of a taluk.
- Parvar* (see Patol).
- Patel* (Coorg)—Village headman appointed by Government.
- Patol* (*Trichosanthes dioica*)—A vegetable crop.
- Peshkash* (Madras)—The fixed land revenue payable to Government on all permanently settled estates.
- Pinnakottai or ponna*—The mast-wood.
- Ponnagantikura* (*Alternanthera sessilis*)—A vegetable crop.
- Poramboke* (Madras)—Lands reserved for public or village communal purposes.
- Pól indáms* (Bombay)—Plots of alienated land in Khalsa villages.
- Pól kharáb* (Berar)—The unculturable area included in a survey number.
- Puliyavara* (*Oxalis corniculata*)—A vegetable crop.
- Ragi* (see Marua).
- Randhuni* (see Ajmud).
- Rayatwari*—State lands leased to cultivators for a fixed term. A form of tenure in which the settlement of revenue is made by Government with each individual occupant or cultivator of the land for a given term, without the intervention of a third party.
- Sabai grass* (*Ischaemum Augustifolium*)—A fibre plant.
- Sank-alu* (*Pachyrhizus angulatus*)—A root crop.
- Sapodilla* (*Achras Sapota*)—A fruit.
- Sebestan* (*Cordia Myra*)—A fruit.
- Shanbóg* (Coorg)—A village accountant appointed by Government.
- Shrotriem* (Madras)—Village held on grant (originally to Brahmans), wholly or partially revenue-free.
- Siris tree or vagai* (*Albizzia Lebbek*)—A non-food crop.
- Sorrell* (*Rumex vesicarius*)—A vegetable crop.
- Sother*—Radish.
- Swank* (*Panicum frumentaceum*)—A food grain.
- Taikthgy*—The headman of a group of villages.
- Talukdari* (Bombay)—A form of proprietary right in force in the northern districts of Bombay.
- Tejpat* (*Cinnamomum Tamala* and *C. obtusifolium*)—A spice.
- Thatkameda* (Upper Burma)—Household tax.

APPENDIX B—*concluded*VERNACULAR TERMS USED IN VOLUME I OF AGRICULTURAL
STATISTICS OF INDIA—*concluded*

Thatkan payara (see Barbati).

Thekadar (Central Provinces)—A farmer, a leaseholder, a middleman; one who receives the rents from the cultivators and pays a stipulated sum to the proprietor.

Thetke grass (*Imperata arundinacea*)—A small perennial grass used chiefly for thatching purposes.

Thuggi (Burma)—A village headman.

Til (*Sesamum indicum*)—An oilseed.

Uchhe (*Momordica muricata*)—A vegetable crop.

Udai (*Acacia eburnea*)—A thorny tree used as fuel or for fencing purposes.

Udhad-jamabandi (Bombay)—A proprietary tenure subject to fixed assessment.

Umblī (Coorg)—Lands granted on reduced rates to individuals on account of services rendered to the State by themselves or their ancestors.

Unda (*Pongamia glabra*)—An oilseed.

Urad (*Phaseolus radiatus*)—Black gram.

Wudalu or barti (*Panicum flavidum*)—A food grain.

Zamindar—The holder of an estate on a fixed assessment under a deed of permanent ownership granted by Government.

———— (Central Provinces)—A chief of minor importance who, while usually holding a large and compact estate on privileged tenure, has been restricted to the rank of an ordinary subject.

Zamindari—An estate held on a fixed assessment under a deed of permanent ownership granted by Government.

———— (United Provinces)—An undivided estate held in joint tenure.

APPENDIX C

ALPHABETICAL LIST OF CROPS CULTIVATED IN INDIA AND THEIR CLASSIFICATION
IN TABLE IV

NAME OF CROP		Heads of classification in Table IV
English or Vernacular	Botanical	
Agasi, agati or avati	<i>Sesbania grandiflora</i>	40. Fruits and Vegetables including root crops.
Agave	<i>Agave</i> spp.	25. Fibres—others.
Ajmud or Randhuni	<i>Carum Roxburghianum</i>	20. Condiments and Spices.
Ajwan or Bishop's weed	<i>Carum Copticum</i>	37. Drugs and Narcotics— others.
Akurkura (<i>see Chrysanthemum</i>) . . . . .	.....	.....
Al (<i>see Morinda</i>) . . . . .	.....	.....
Aloes	<i>Aloe vera</i>	37. Drugs and Narcotics— others.
Alya (<i>see Cress</i>) . . . . .	.....	.....
Amada or Mamidi allam	<i>Curcuma Amada</i>	20. Condiments and Spices.
Amaranths	<i>Amarantus</i>	41. Miscellaneous food crops.
Ampazham (<i>see Plum</i>) . . . . .	.....	.....
Anise seed	<i>Pimpinella Anisum</i>	20. Condiments and Spices.
Apple, wood	<i>Feronia elephantum</i>	40. Fruits and Vegetables including root crops.
„ Rose	<i>Eugenia Jambos</i>	40. „ „ „
„ Custard	<i>Anona squamosa</i> and <i>A. reticulata</i>	40. „ „ „
Arecanut or Betelnut	<i>Areca Catechu</i>	37. Drugs and Narcotics— others.
Arhar or pigeon pea	<i>Cajanus indicus</i>	10. Other food grains, etc.
Arnatto or Arnotto	<i>Bixa Orellana</i>	30. Dyes and Tanning Materials—others.
Arrowroot, West Indian	<i>Maranta arundinacea</i>	41. Miscellaneous food crops.
„ Wild or East Indian	<i>Curcuma augustifolia</i>	41. „ „ „
Artichoke	<i>Cynara Scolymus</i> or <i>Centaurea Cardunculus</i>	40. Fruits and Vegetables including root crops.
Arum (edible), Kachu or Kachalu	<i>Colocasia Antiquorum</i>	40. „ „ „
Arunelli (<i>see Gooseberry, country star</i>) . . . . .	.....	.....
Bajra (<i>see Millet</i>) . . . . .	.....	.....
Barbati, Lobia, Jenugulu, Thattan-payara or Chowli (<i>Asparagus</i>)	<i>Vigna Catjang</i>	10. Other food grains, etc.
Barley	<i>Hordeum vulgare</i>	4. Barley.
Barti (<i>see Wudalu</i>) . . . . .	.....	.....
Basil, sweet	<i>Ocimum Basilicum</i>	37. Drugs and Narcotics— others.
Beans—		
„ Sim	<i>Canavalia</i> sp.	40. Fruits and Vegetables including root crops.
„ Sutri or Ghurush	<i>Phaseolus calcaratus</i>	10. Other food grains, etc.
„ Asparagus (<i>see Barbati</i>) . . . . .	.....	.....
„ Cluster (<i>see Vetch</i>) . . . . .	.....	.....
„ French or Haricot	<i>Phaseolus vulgaris</i>	10. Other food grains, etc.
„ Garden	<i>Vicia Faba</i>	40. Fruits and Vegetables including root crops.
„ Goa	<i>Psophocarpus tetragonolobus</i>	40. „ „ „
„ Indian, Chikkudukayalu, Papat or Val	<i>Dolichos Lablab</i>	10. Other food grains, etc.
„ Kidney, Moth or Kalpayaru	<i>Phaseolus aconitifolius</i>	10. „ „ „
„ Lima	„ <i>Lunatus</i>	10. „ „ „
„ Soy	<i>Glycine hispida</i>	10. „ „ „
„ Sword or Makham Sim	<i>Canavalia Ensiformis</i> , <i>C. gladiata</i>	40. Fruits and Vegetables including root crops.
„ Velvet	<i>Mucuna Pruriens</i>	40. „ „ „
Beetroot	<i>Beta vulgaris</i>	40. „ „ „
Bel	<i>Ægle Marmelos</i>	40. „ „ „
Betel nut (<i>see Arecanut</i>) . . . . .	.....	.....
„ vine	<i>Piper Betle</i>	37. Drugs and Narcotics— others.
Bhindi (<i>see Hibiscus, edible</i>) . . . . .	.....	.....

APPENDIX C—continued

ALPHABETICAL LIST OF CROPS—continued

NAME OF CROP		Heads of classification in Table IV
English or Vernacular	Botanical	
Bilimbi	Averrhoa Bilimbi	40. Fruits and Vegetables including root crops.
Binb	Cephalandra indica	40. " " "
Bishop's weed (<i>see</i> Ajwan) . . . . .	.....	.....
Borage, country	Coleus aromaticus	37. Drugs and Narcotics— others.
Brinjal	Solanum Melongena, S. longum.	40. Fruits and Vegetables including root crops.
„ bogoda or nela mulaka	Solanum xanthocarpum	37. Drugs and Narcotics— others.
Buck wheat (<i>see</i> Wheat) . . . . .	.....	.....
Cabbage	Brassica oleracea	40. Fruits and Vegetables including root crops.
Caraway or Jira	Carum Carui	20. Condiments and Spices.
„ Black or Shahjira	„ Bulbocastanum	20. " " "
Cardamom Aromatic	Amomum aromaticum	20. " " "
„ greater	„ subulatum	20. " " "
„ lesser	Elettaria Cardamomum	20. " " "
Carob or Locust tree	Ceratonia Siliqua	39. Fodder crops.
Carrot or Gajar	Daucus Carota	40. Fruits and Vegetables including root crops.
Cashew nut	Anacardium occidentale	40. " " "
Cassava	Manihot utilisima and M. palmata.	40. " " "
Castor	Ricinus communis	17. Castor.
Cauliflower	Brassica oleracea	40. Fruits and Vegetables including root crops.
Celery	Apium graveolens	40. " " "
Chaplash (<i>see</i> Sam tree) . . . . .	.....	.....
Chayroot	Oldenlandia umbellata	30. Dyes and Tanning Materials—others.
Cheena (<i>see</i> Millet) . . . . .	.....	.....
Cheik (<i>see</i> Job's Tear) . . . . .	.....	.....
Chicory	Cichorium Intybus	40. Fruits and Vegetables including root crops.
Chickling Vetch (<i>see</i> Vetch) . . . . .	.....	.....
Chillies	Capsicum sp.	20. Condiments and Spices.
Chikkudukayalu (<i>see</i> Beans, Indian) . . . . .	.....	.....
Cholanathu (fodder Cholum)	Andropogon Sorghum	39. Fodder crops.
Cholum (<i>see</i> Millet) . . . . .	.....	.....
Chowli (<i>see</i> Barbati) . . . . .	.....	.....
Chrysanthemum, Akurkura, or Jevandi	Chrysanthemum corona- rium.	42. Miscellaneous non-food crops.
Cinchona	Cinchona sp.	35. Cinchona.
Cinnamon	Cinnamomum zeylanicum	20. Condiments and Spices.
Citron or lime or lemon	Citrus medica	40. Fruits and Vegetables including root crops.
Cloves	Eugenia caryophyllata or Caryophyllus aromaticus.	20. Condiments and Spices.
Coconut	Cocos nucifera	16. Coconut.
Coffee	Coffea arabica	32. Coffee.
Coriander	Coriandrum sativum	20. Condiments and Spices.
Cotton	Gossypium sp.	23. Cotton.
Cress or Alya	Lepidium sativum	40. Fruits and Vegetables including root crops.
Cucumber	Cucumis sativus	40. " " "
Cumbu (<i>see</i> Millet) . . . . .	.....	.....
Cumin	Cuminum Cyminum	20. Condiments and Spices.
Custard Apple (<i>see</i> Apple) . . . . .	.....	.....
Dani	Nipa fruticans	42. Miscellaneous non-food crops.
Dato palm (<i>see</i> Palm) . . . . .	.....	.....
Dhaincha	Sesbania aculeata	42. Miscellaneous non-food crops.

APPENDIX C—continued

ALPHABETICAL LIST OF CROPS—continued

NAME OF CROP		Heds of classification in Table IV
English or Vernacular	Botanical	
Dhatura	<i>Datura alba</i>	37. Drugs and Narcotics— others.
Dill or Sowa	<i>Peucedanum graveolens</i>	18. Oilseeds—others.
Dividivi	<i>Cæsalpinia coriara</i>	30. Dyes and Tanning Materials—others.
Drumsticks or Horse-radish	<i>Moringa pterygosprema</i>	40. Fruits and Vegetables including root crops.
Elephant foot, Zamirkand or Ol	<i>Amorphophallus campanu- latus.</i>	40. " " "
Elephant yam	<i>Tryphonium trilobatum</i>	40. " " "
Fennel	<i>Fœniculum vulgare</i>	20. Condiments and Spices.
Penugreek	<i>Trigonella fœnum græcum</i>	20. " " "
Field Vetch (<i>see</i> Vetch)	.....	.....
Fig	<i>Ficus Carica</i>	40. Fruits and Vegetable, including root crops.
Flea-bane, purple	<i>Vernonia anthelmintica</i>	37. Drugs and Narcotics— others.
Flowers . . . . .	.....	42. Miscellaneous non-food crops.
Gajar (<i>see</i> Carrot)	.....	.....
Garlic	<i>Allium sativum</i>	20. Condiments and Spices.
Garmal	<i>Coleus barbatus</i>	40. Fruits and Vegetables including root crops.
Gawar (<i>see</i> Vetch)	.....	.....
Ginger	<i>Zingiber officinale</i>	20. Condiments and Spices.
Goa bean (<i>see</i> Bean)	.....	.....
Gondi (<i>see</i> Millet)	.....	.....
Gooseberry, Cape—or tepari	<i>Physalis peruviana</i>	40. Fruits and Vegetables including root crops.
" Country star or Arunelli	<i>Phyllanthus distichus</i>	40. " " "
Goose foot	<i>Chenopodium album</i>	40. " " "
Gourd, Snake	<i>Trichosanthes anguina</i>	40. " " "
" Bottle	<i>Lagenaria vulgaris</i>	40. " " "
" Towel	<i>Luffa acutangula</i>	40. " " "
" Red or melon pumpkin	<i>Cucurbita maxima</i>	40. " " "
" Melon, white	<i>Benincasa cerifera</i>	40. " " "
Gram	<i>Cicer arietinum</i>	9. Gram.
" Field	<i>Phaseolus trilobus</i>	10. Other food grains, etc.
" Green or Mung	<i>Phaseolus Mungo</i>	10. " " "
" Horse or Kulthi	<i>Dolichos biflorus</i>	10. " " "
" Black or Urad (Matikalai)	<i>Phaseolus radiatus</i>	10. " " "
Grape	<i>Vitis vinifera</i>	40. Fruits and Vegetables including root crops.
Groundnut	<i>Arachis hypogœa</i>	15. Groundnut.
Guava	<i>Psidium Guajava</i>	40. Fruits and Vegetables including root crops.
Guinea grass	<i>Panicum maximum</i>	39. Fodder crops.
Gumberry	<i>Cordia Rothii</i>	40. Fruits and Vegetables including root crops.
Hemp, Indian, or Ganja	<i>Cannabis sativa</i>	36. Indian hemp.
" Sunn	<i>Crotalaria juncea</i>	25. Fibres—others.
" Deccan	<i>Hibiscus cannabinus</i>	25. " "
" Sisal	<i>Agave sisalana</i>	25. " "
Henna	<i>Lawsonia alba</i>	30. Dyes and Tanning Materials—others.
Hibiscus, edible or bhindi	<i>Hibiscus esculentus</i>	40. Fruits and Vegetables including root crops.
Horse-radish (<i>see</i> Drumsticks)	.....	.....
Indian Hemp (<i>see</i> Hemp)	.....	.....
Indian worm wood (<i>see</i> Marukkoluadu)	.....	.....
Indigo	<i>Indigofera sumatrana</i> and <i>I. arrecta.</i>	23. Indigo.
Isfagul	<i>Plantago ovata</i>	37. Drugs and Narcotics— others.

APPENDIX C—continued

ALPHABETICAL LIST OF CROPS—continued

NAME OF CROP		Heads of classification in Table IV
English or Vernacular	Botanical	
Jack fruit	<i>Artocarpus integrifolia</i>	40. Fruits and Vegetables including root crops.
Jambotree (<i>see</i> Plum, black)	.....	.....
Jenugulu (<i>see</i> Barbati)	.....	.....
Jevandi (<i>see</i> Chrysanthemum)	.....	.....
Jinjili (<i>see</i> Sesamum)	.....	.....
Jira (<i>see</i> Caraway)	.....	.....
Job's Tear or Cheik	<i>Coix lachryma-jobi</i>	10. Other food grains, etc.
Jowar (<i>see</i> Millet)	.....	.....
Jujube	<i>Zizyphus Jujuba</i>	40. Fruits and Vegetables including root crops.
Jute	<i>Corchorus sp.</i>	24. Jute.
Kachu or Kachalu (<i>see</i> Arum)	.....	.....
Kakri (<i>see</i> Melon)	.....	.....
Kalpayaru (<i>see</i> Beans, Kidney)	.....	.....
Kamranga	<i>Averrhoa Carambola</i>	40. Fruits and Vegetables including root crops.
Kanda	<i>Dracontium</i>	40. " "
Kangni (<i>see</i> Millet)	.....	.....
Kankrol	<i>Momordica cochinchinensis</i>	40. Fruits and Vegetables including root crops.
Kaon (<i>see</i> Millet)	.....	.....
Kapok	<i>Eriodendron anfractuosum</i>	25. Fibres—others.
Karola	<i>Momordica Charantia</i>	40. Fruits and Vegetables including root crops.
Karuvapilai	<i>Murraya Koenigii</i>	20. Condiments and Spices.
Kavali or Indian Katura	<i>Sterculia urens</i>	40. Fruits and Vegetables including root crops.
Kavathu, pannikkavathu, pallakavathu, kolkavathu	<i>Dioscorea alata</i>	40. " " "
Kharbuja (<i>see</i> Melon)	.....	.....
Khesari (<i>see</i> Vetch)	.....	.....
Khurfa (<i>see</i> Purslane)	.....	.....
Kidney bean (<i>see</i> Bean)	.....	.....
Kirni	<i>Mimusops hexandra</i>	41. Miscellaneous food crops.
Kodo (<i>see</i> Millet)	.....	.....
Kokam (<i>see</i> Mangosteen)	.....	.....
Kolinji or vempali	<i>Tephrosia purpurea</i>	37. Drugs and Narcotics— others.
Koorka	<i>Strobilanthes</i>	40. Fruits and Vegetables including root crops.
Kerai (<i>see</i> Matting sedge, Indian)	.....	.....
Kuhudi	<i>Panicum trypheron</i>	10. Other food grains, etc.
Kulthi (<i>see</i> Gram)	.....	.....
Kutki (<i>see</i> Millet)	.....	.....
Lemon (<i>see</i> Citron)	.....	.....
Lentils	<i>Lens esculenta</i> or <i>Ervum lens</i>	10. Other food grains, etc.
Lettuce	<i>Lactuca Scariola</i>	40. Fruits and Vegetables including root crops.
Lime (<i>see</i> Citron)	.....	.....
Linseed	<i>Linum usitatissimum</i>	12. Linseed.
Lobia (<i>see</i> Barbati)	.....	.....
Locust tree (<i>see</i> Carob)	.....	.....
Lucerne	<i>Medicago sativa</i>	39. Fodder crops.
Madder	<i>Rubia tinctorum</i> and <i>R. cordifolia</i> .	30. Dyes and Tanning Materials—others.
Mahua	<i>Bassia latifolia</i> and <i>B. longifolia</i> .	41. Miscellaneous food crops.
Maize	<i>Zea Mays</i>	8. Maize.
Makham Sim (<i>see</i> Beans, Sword)	.....	.....
Mango	<i>Mangifera indica</i>	40. Fruits and Vegetables including root crops.
Mangosteen or Kokam	<i>Garcinia indica</i>	40. " " "
Mankachu	<i>Alocasia indica</i>	40. " " "
Margosa or Neem tree	<i>Melia azadirachta</i>	42. Miscellaneous non-food crops.

APPENDIX C—continued

ALPHABETICAL LIST OF CROPS—continued

NAME OF CROP		Heads of classification in Table IV
English or Vernacular	Botanical	
Marians	<i>Bouea burmanica</i>	40. Fruits and Vegetables including root crops.
Marjoram	<i>Origanum vulgare</i>	20. Condiments and Spices.
Marua (<i>see</i> Millet) . . . . .	.....	.....
Marukkolundu or Indian wormwood	<i>Artemisia vulgaris</i>	42. Miscellaneous non-food crops.
Mast-wood	<i>Calophyllum inophyllum</i>	18. Oilseeds—others.
Mati kalai (<i>see</i> Black gram) . . . . .	.....	.....
Matting sedge, Indian or Korai	<i>Cyperus corymbosus</i> , C. <i>tegetum</i> .	25. Fibres—others.
Medlar, Indian	<i>Vangueria edulis</i>	40. Fruits and Vegetables including root crops.
Melon, Kharbuja	<i>Cucumis Melo</i>	40. " " "
" Kakri	<i>Cucumis Melo</i> var. <i>momordica</i> .	40. " " "
" Musk	<i>Cucurbita moschata</i>	40. " " "
" Water	<i>Citrullus vulgaris</i>	40. " " "
" White Gourd (<i>see</i> Gourd) . . . . .	.....	.....
Metha (<i>Fenugreek</i>)	<i>Trigonella fœnum-græcum</i>	20. Condiments and Spices.
Millet, Bulrush, Bajra or Cumbu	<i>Pennisetum typhoideum</i>	6. Cumbu or Bajra.
" (<i>Sorghum</i>) or jowar or cholum	<i>Sorghum vulgare</i>	5. Cholum or Jowar.
" Italian, Kangni, or Kaon	<i>Panicum Italicum</i> or <i>Setaria italica</i> .	10. Other food grains, etc.
" Kodo or Varagu	<i>Paspalum scrobiculatum</i>	10. " "
" Little, Kutki or Gondli	<i>Panicum miliare</i>	10. " "
" Marua or Ragi	<i>Eleusine Coracana</i>	7. Ragi or marua.
" Common or Cheena	<i>Panicum miliaceum</i>	10. Other food grains, etc.
Mint or Pudina	<i>Mentha arvensis</i>	20. Condiments and Spices.
Morinda or Al	<i>Morinda tinctoria</i>	30. Dyes and Tanning Materials—others.
Moth (<i>see</i> Bean) . . . . .	.....	.....
Mulberry	<i>Morus indica</i>	42. Miscellaneous non-food crops.
Mung (<i>see</i> Gram) . . . . .	.....	.....
Mustard	<i>Brassica</i> sp.	14. Rape and Mustard.
Naval (<i>see</i> Plum, black) . . . . .	.....	.....
Neem tree (<i>see</i> Margosa) . . . . .	.....	.....
Neerali	<i>Gynocordia odorata</i>	18. Oilseeds—others.
Niger Seed or Sorguja	<i>Guizotia abyssinica</i>	18. " " "
Nutmeg	<i>Myristica fragrans</i>	20. Condiments and Spices.
Oats	<i>Avena sativa</i>	30. Fodder crops.
Odamula (reeds)	<i>Ochalandra Rheedii</i>	42. Miscellaneous non-food crops.
Ol (<i>see</i> Elephant foot) . . . . .	.....	.....
Onion	<i>Allium Ceba</i>	40. Fruits and Vegetables including root crops.
Opium	<i>Papaver somniferum</i>	31. Opium.
Orache, garden (<i>see</i> Spinach) . . . . .	.....	.....
Oranges	<i>Citrus Aurantium</i>	40. Fruits and Vegetables including root crops.
Palm, Date	<i>Phoenix sylvestris</i>	22. Sugar—others.
" Palmyra	<i>Borassus flabellifer</i>	22. " " "
Papay	<i>Carica papaya</i>	40. Fruits and Vegetables including root crops.
Parvar or Patol	<i>Trichosanthes dioica</i>	40. " " "
Peach	<i>Prunus persica</i>	40. " " "
Peanut (<i>see</i> Groundnut) . . . . .	.....	.....
Peas	<i>Pisum sativum</i> or <i>Pisum arvense</i> .	10. Other food grains, etc.
Pepper	<i>Piper</i> or <i>Capsicum</i>	20. Condiments and Spices.
" Black	<i>Piper nigrum</i>	20. " " "
" Long	<i>Piper longum</i>	20. " " "
Pigeon or bottle grass	<i>Setaria glauca</i>	10. Other food grains, etc.
" pea (<i>see</i> Arhar) . . . . .	.....	.....
Pinnakottai, Ponna (<i>see</i> Mast-wood) . . . . .	.....	.....

APPENDIX C—continued

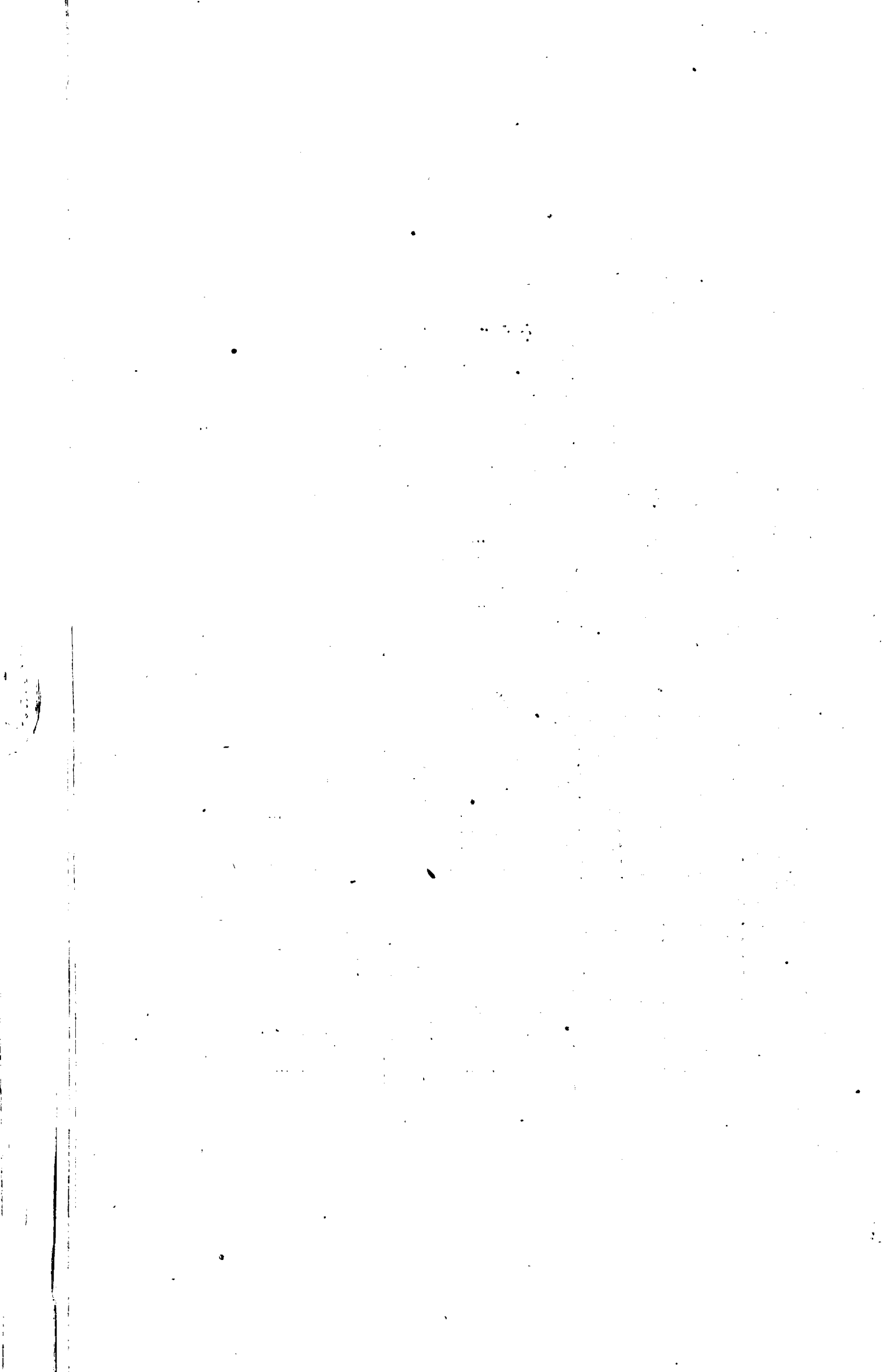
ALPHABETICAL LIST OF CROPS—continued

NAME OF CROP		Heads of classification in Table IV
English or Vernacular	Botanical	
Pine apple	<i>Ananas sativa</i>	40. Fruits and Vegetables including root crops.
Plantain	<i>Musa sapientum</i>	40. " " "
Plum, black, Jambo tree or Naval	<i>Eugenia Jambolana</i>	40. " " "
" Illog, or Ampazham	<i>Spondias mangifera</i>	40. " " "
Poi (see Spinach) . . . . .	.....	.....
Pomegranate	<i>Punica granatum</i>	40. Fruits and Vegetables including root crops.
Pomelo	<i>Citrus decumana</i>	40. " " "
Ponnagantikura	<i>Alternanthera sessilis</i>	40. " " "
Potato	<i>Solanum tuberosum</i>	40. " " "
" Sweet	<i>Ipomœa Batatas, Batatas edulis.</i>	40. " " "
Pudina (see Mint) . . . . .	.....	.....
Puliyavara	<i>Oxalis corniculata</i>	40. Fruits and Vegetables including root crops.
Pumpkin	<i>Cucurbita pepo</i>	40. " " "
" Melon (see Gourd red) . . . . .	.....	.....
Purslane	<i>Portulaca Oleracea</i>	40. Fruits and Vegetables including root crops.
Radish or Sother	<i>Raphanus sativus</i>	40. " " "
Ragi (see Millet) . . . . .	.....	.....
Randhuni (see Ajmud) . . . . .	.....	.....
Rapeseed	<i>Brassica sp.</i>	14. Rape and Mustard.
Raspberry	<i>Rubus lasiocarpus</i>	40. Fruits and Vegetables including root crops.
Rhea	<i>Boehmeria nivea</i>	25. Fibres—others.
Rice	<i>Oryza sativa</i>	2. Rice.
Rose apple (see Apple) . . . . .	.....	.....
Roselle	<i>Hibiscus sabdariffa</i>	40. Fruits and Vegetables including root crops.
Rubber (India)	<i>Hevea brasiliensis, Manihot Glaziovii.</i>	42. Miscellaneous non-food crops.
Sabai grass	<i>Ischœmum angustifolium</i>	25. Fibres—others.
Safflower	<i>Carthamus tinctorius</i>	18. Oilseeds—others.
Saffron	<i>Crocus sativus</i>	30. Dyes and Tanning Materials—others.
Sage	<i>Salvia officinalis</i>	20. Condiments and Spices.
Sam tree or Chaplash	<i>Artocarpus Chaplasha</i>	42. Miscellaneous non-food crops.
Sark-alu	<i>Pachyrhizus angulatus</i>	40. Fruits and Vegetables including root crops.
Sapodilla	<i>Achras Sapota</i>	40. " " "
Sawan (see Swank) . . . . .	.....	.....
Sebestan	<i>Cordia myxa</i>	40. Fruits and Vegetables including root crops.
Senna	<i>Cassia angustifolia and C. ovata.</i>	37. Drugs and Narcotics—others.
Sesamum, til or jinjili	<i>Sesamum indicum</i>	13. Sesamum.
Shahjira (see Caraway, black) . . . . .	.....	.....
Shama (see Swank) . . . . .	.....	.....
Singhara or water caltrop	<i>Trapa bispinosa</i>	40. Fruits and Vegetables including root crops.
Siris tree or vagai	<i>Albizia Lebbek</i>	42. Miscellaneous non-food crops.
Sisal hemp (see Hemp) . . . . .	.....	.....
Soapnut or Kumkudu-Kaya	<i>Sapindus trifoliatus</i>	42. Miscellaneous non-food crops.
Sorguja (see Niger seed) . . . . .	.....	.....
Sorrel	<i>Rumex vesicarius</i>	40. Fruits and Vegetables including root crops.
Sother (see Radish) . . . . .	.....	.....
Sowa (see Dill) . . . . .	.....	.....
Scy bean (see Bean) . . . . .	.....	.....
Spelt wheat (see Wheat) . . . . .	.....	.....

APPENDIX C—concluded

ALPHABETICAL LIST OF CROPS—concluded

NAME OF CROP		Heads of classification in Table IV
English or Vernacular	Botanical	
Spinach	<i>Spinacea oleracea</i>	40. Fruits and Vegetables including root crops.
„ Indian or poi	<i>Basella alba</i>	40. „ „ „
„ Mountain, or Garden Orache	<i>Atriplex hortensis</i>	40. „ „ „
Strawberry	<i>Fragaria vesca</i>	40. „ „ „
Sugarcane	<i>Saccharum officinarum</i>	21. Sugarcane.
Sunflower	<i>Helianthus Annuus</i>	18. Oilseeds—others.
Swallow-wort	<i>Calotropis sp.</i>	25. Fibres—others.
Swank, Sawan, or Shama	<i>Panicum frumentaceum</i>	10. Other food grains, etc.
Sweet flag	<i>Acorus Calamus</i>	37. Drugs and Narcotics— others.
Sweet potato (<i>see</i> Potato) . . . . .	.....	.....
Tamarind	<i>Tamarindus indica</i>	20. Condiments and Spices.
„ Manila	<i>Pithecolobium dulce</i>	40. Fruits and Vegetables including root crops.
Taramira	<i>Eruca sativa</i>	14. Rape and Mustard.
Tea	<i>Camelia Thea</i>	33. Tea.
Tejpat	<i>Cinnanonum Tamaia</i> and <i>C. obtusifolium</i> .	20. Condiments and Spices.
Tepari (<i>see</i> Gooseberry) . . . . .	.....	.....
Thattan-payara (<i>see</i> Barbati) . . . . .	.....	.....
Thetkè (grass)	<i>Imperata arundinacea</i>	42. Miscellaneous non-food crops.
Til (<i>see</i> Sesamum) . . . . .	.....	.....
Tobacco	<i>Nicotiana Tabacum</i> and <i>N.</i> <i>Rustica</i> .	34. Tobacco.
Tomato	<i>Lycopersicum esculentum</i>	40. Fruits and Vegetables including root crops.
Tori, Toria	<i>Brassica Napus</i>	14. Rape and Mustard.
Turmeric	<i>Curcuma longa</i>	20. Condiments and Spices.
Turnip	<i>Brassica Rapa</i>	40. Fruits and Vegetables including root crops.
Uchhe	<i>Momordica muricata</i>	40. „ „ „
Udai	<i>Acacia eburnea</i>	42. Miscellaneous non-food crops.
Unda	<i>Pongamia glabra</i>	18. Oilseeds—others.
Urad (<i>see</i> Gram) . . . . .	.....	.....
Vagai (<i>see</i> Siris tree) . . . . .	.....	.....
Varagu (<i>see</i> Millet) . . . . .	.....	.....
Vempali (<i>see</i> Kolinji) . . . . .	.....	.....
Vetch, Field, Cluster bean, or gawar	<i>Cyamopsis psoralioides</i>	39. Fodder crops.
„ Chickling or khesari	<i>Lathyrus sativus</i>	10. Other food grains, etc.
Water caltrop (<i>see</i> Singhara) . . . . .	.....	.....
„ melon (<i>see</i> Melon) . . . . .	.....	.....
Wheat	<i>Triticum sativum</i>	3. Wheat.
„ Buck	<i>Fagopyrum esculentum</i>	10. Other food grains, etc.
„ Spelt	<i>Triticum sativum</i> var. <i>Spelta</i> .	3. Wheat.
Wood apple (<i>see</i> Apple) . . . . .	.....	.....
Wudalu or barti	<i>Panicum flavidum</i>	10. Other food grains, etc.
Yams	<i>Dioscorea sp.</i>	40. Fruits and Vegetables including root crops.
Zaminkand (<i>see</i> Elephant foot)



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