

*RTY-EIRST ISSUE*

DEPARTMENT OF STATISTICS, INDIA

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# Agricultural Statistics of India

1914=15

Volume I

Area, Classification of Area, Area under Crops, Live-  
Stock, Land Revenue Assessment, and Transfers  
of Land in British India

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*Published by order of the Governor-General in Council*

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NOTE.—[Those marked with an asterisk (\*) to be obtained from the officer in charge, Bengal Secretariat Book Depot].

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30. Customs Revenue Statement. Half anna.

#### FORTNIGHTLY.

31. Wholesale and Retail Prices of cereals, pulses, oilseeds, sugar, salt, etc., in India. As. 6.
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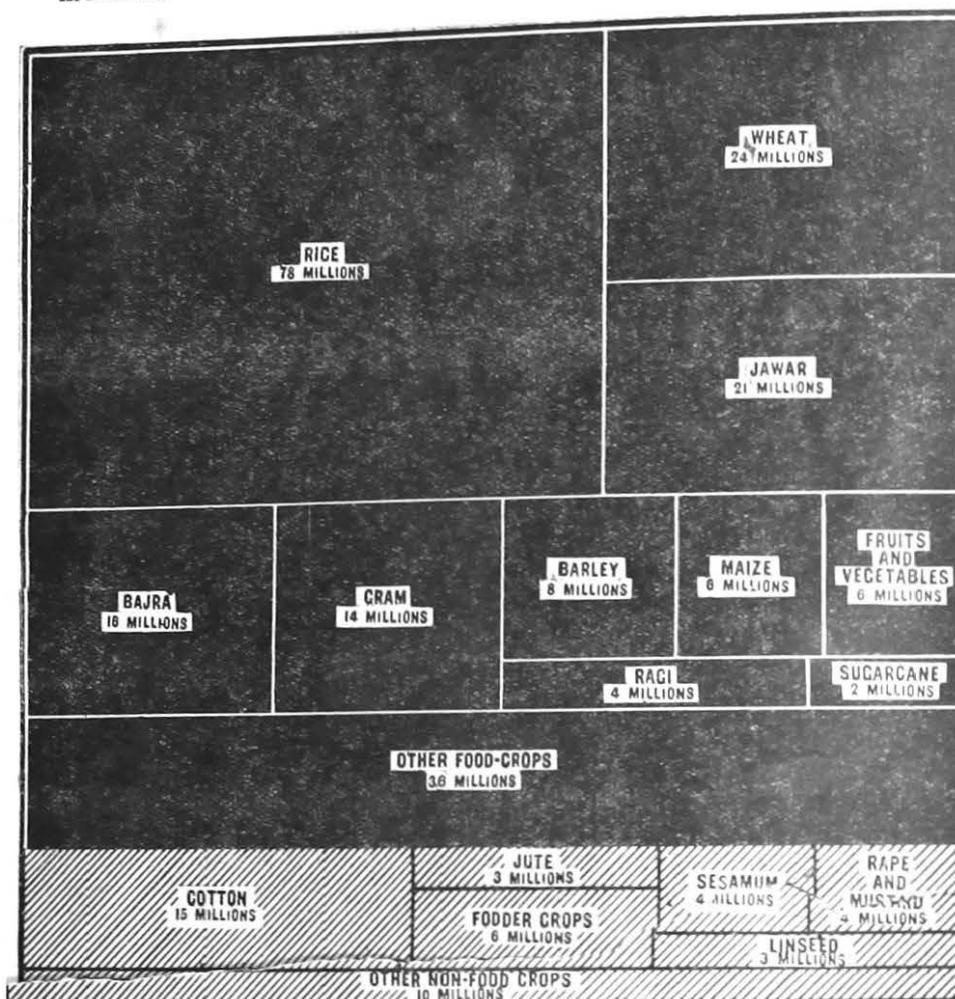
34. Weekly Imports and Exports from Chief Ports of wheat, jute and cotton. Half anna.

#### MISCELLANEOUS.

35. Memorandum and Statistical Tables relating to the Trade of India with Germany and Austria-Hungary. As. 8. (2a.)
36. List of Factories and other large Industries in India. R3-12.

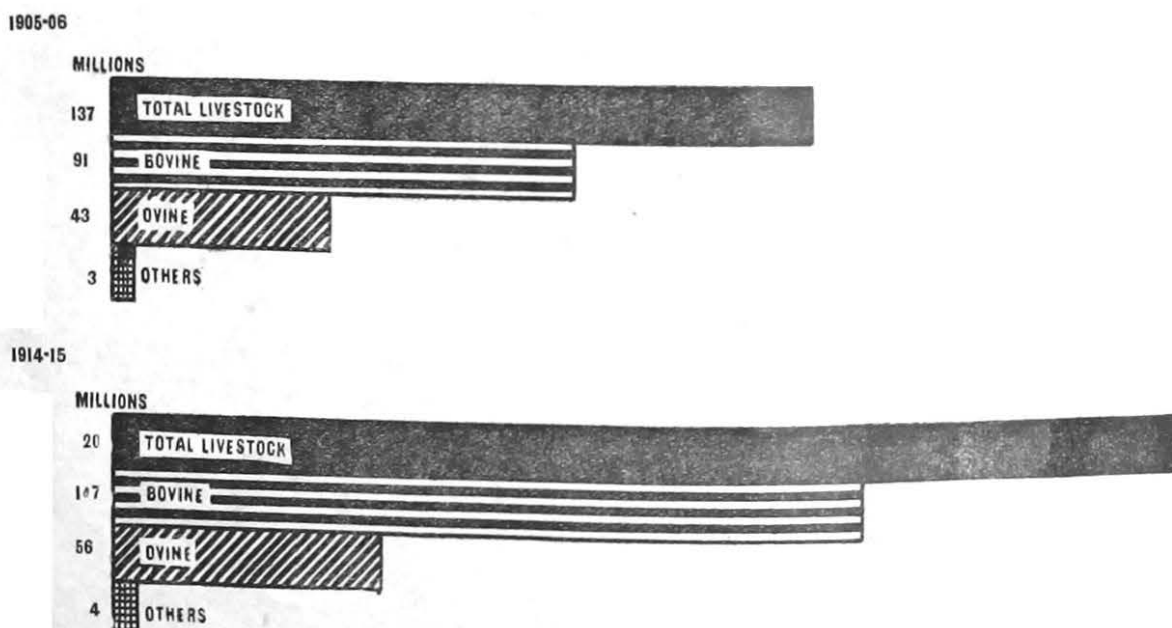
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Total Area cropped . . . . . 260 million acres.  
 Area under food crops (black portion) . . . . . 215 million acres.  
 Area under non-food crops (shaded portion) . . . . . 45 million acres



NOTE.—“Other food crops” are minor food-grains, condiments and spices, and miscellaneous food crops.  
 “Other non-food crops” are oilseeds other than sesamum, linseed, rape and mustard; fibres other than cotton and jute; dyes; drugs and narcotics; and miscellaneous non-food crops.

### 2. Total livestock, divided between bovine, ovine, and others in 1914-15, as compared with the year 1905-06.



NOTE.—“Bovine” includes bulls and bullocks, cows, buffaloes, calves, and buffalo calves.  
 “Ovine” includes sheep and goats.  
 “Others” include horses and ponies, mules, donkeys, and camels.

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**APPENDICES**

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## APPENDIX A

*Average yield, in pounds per acre, of the principal cultivated crops, revised with reference to the results of experiments made up to the year 1911-12.*

A provisional return of the yield of the principal crops cultivated in India was first compiled in 1892, from various statistical publications, such as, agricultural and settlement reports, crop forecasts, gazetteers, replies to the enquiries of the Famine Commission, etc., and to provide for the periodical revision of the estimates a system of experimental crop cuttings was prescribed by the Government of India, the results of which were to be reported in quinquennial returns.

The instructions for the preparation of these returns are that the estimate given should be that of the average outturn on average soil in a year of average character as deduced from a consideration of the information obtained or experiments made during the years under review; so that when multiplied by the average area cropped, it may give as near an approximation as possible to the outturn of the crop in an average year. The Agricultural Department of each Province has at its disposal a provisional estimate of the average yield of land of average quality (under the two major heads of irrigated and unirrigated land) for the several crops in each district. The object of the experiments annually made is to test the accuracy of these estimates, and to enable the head of the Agricultural Department in each province to revise his provincial estimates when necessary. Should it happen that the period has been one of unfavourable conditions which have affected the experiments reported, this would not necessarily involve the reduction of the standard estimates for the district, or for the province, unless there were other reasons for thinking that, as estimates of yield in average years, they had been pitched too high.

As a result of the experiments made during the preceding quinquennium (1901-02 to 1906-07), considerable modification of the standard averages for several of the crops was made in all the provinces except Bombay and Bengal. Some three or four provinces have made a few revisions of this character on the results of the experiments conducted in the quinquennium 1907-08 to 1911-12; but, on the whole, the distrust in the results of the experiments, as conducted by the district staff, to which expression was given by Bombay and Bengal on the last occasion, is growing. In the Bombay Presidency a system of more scientifically conducted experiments by officers of the Agricultural Department has been substituted for the system of experiments conducted by the district staff. In the Punjab and Sind the estimates framed by settlement officers at the time of revenue settlement have been preferred where these are available, while in certain other provinces the figures of the settlement officers have been freely referred to in checking the averages. In Bengal and Bihar and Orissa, although no change has been made in the system, the results of experiments made during the last twenty years have not been considered sufficiently reliable to justify any material change in the provisional estimates framed in 1892. In Burma the system has been condemned; but the provincial authorities do not consider any change feasible for the present. [Instructions have since been issued by the Government of India for improving these returns and, employing the agency of the Agricultural Department for the investigation of average crop outturns as far as possible, in all provinces.]

The leading features in the different provinces are stated in the following paragraphs:—

*Bengal.*—Owing to the administrative changes of 1912, by which Bihar and Orissa have been formed into a separate province, certain crops, which are important in that area but hardly grown at all in Bengal as now constituted, have been omitted from the present report. The results of the experiments made in the quinquennium under review do not warrant any general conclusions as to the average yields of the various crops, nor do they, except in the case of rice, sugarcane, and jute, afford grounds for modifying the provisional estimates hitherto adopted by the Agricultural Department (which are practically a reproduction of the estimates of 1892). The average yield of winter rice has been reduced from 1,234 lbs to 983 lbs; on the other hand, the yield of sugarcane has been raised from 2,460 lbs to 2,905 lbs and that of jute from 1,200 lbs (3 bales) to 1,271 lbs (3·1 bales). In the consolidated tables for British India, the provisional estimates, therefore, continue to appear with these modifications in the statement of provincial averages, but in the detailed table the average outturn based upon the experiments of the quinquennial period under review is shown for each district.

*Madras.*—The experiments accepted as unobjectionable during the quinquennium were 3,385 in number as against 3,348 in the previous quinquennium. The average assessment of the plots of land selected for experiment is in excess of the average assessment of the province; in many cases, therefore, the land selected is apparently superior to average class of land. The yield of the majority of crops has been raised, especially in the case of cotton and irrigated jawar; the yield of irrigated cotton has been raised from 66 lbs to 87 lbs and of unirrigated cotton from 44 lbs to 55 lbs, and of irrigated jawar from 1,118 lbs to 1,379 lbs. The only decreases relate to sesamum and unirrigated rice. The reported yield of paddy (unhusked rice) has been reduced by 38 per cent to obtain the yield of rice (husked).

*Bombay.*—The estimates of 1897 were prepared with great care and the results of the experiments made in the two quinquennia ending 1901-02 and 1906-07 were not considered sufficiently reliable to justify any revision. With the sanction of the Government of India the system of crop cutting experiments conducted by the district staff was abolished in the quinquennium under review, and a system of more scientifically conducted experiments on Government farms by the officers of the Agricultural Department was substituted. But the results as yet obtained from the experiments on Government farms are too meagre to justify a general revision of the estimates. A few changes considered to be necessary by the Provincial Director have, however, been made with great caution in the figures for certain districts.

*Sind.*—In many cases figures taken from the previous report have been repeated, while in several instances figures have been taken from the settlement reports. Of the experiments selected as giving results typical of an average crop during the present quinquennium three were on wheat, one on jawar, two on bajra, one on gram, and one on cotton. As a result, the provincial average has been raised in the case of wheat, jawar, bajra, gram, rapeseed and cotton, while it has been reduced in the case of sesamum; the most important changes being the increase of the average yield of cotton from 308 lbs to 380 lbs, and that of bajra from 776 lbs to 971 lbs.

*United Provinces.*—The experiments made during the quinquennium under review have not necessitated any change in the provincial averages except for rice and maize. The yield of rice has been raised from 850 lbs to 900 lbs and that of maize from 1,050 lbs to 1,100 lbs.

*Bihar and Orissa.*—The present return relates to the province of Bihar and Orissa as constituted in 1912. Owing to carelessness in the selection of representative fields and to various other defects in the conduct of the experiments made in the quinquennium under review, the results arrived at do not afford any reliable information or justify any modification of the provisional estimates previously adopted by the Agricultural Department of the old province of Bengal on the basis of the estimates of 1892. In the consolidated tables for British India, these unrevised provisional estimates have therefore been retained in the statement of provincial averages, but in the detailed statement of district figures the average outturn based upon the experiments conducted during the quinquennium under review has been shown for each district, irrigated and unirrigated crops being classified separately.

*Punjab.*—The revisions of 1902 and 1907 were made on the basis of very unscientifically selected and inadequately supervised experiments carried out by the district staff without reference to the very careful estimates framed by the settlement officers at the time of revenue settlement. The present revision has been made in consultation with settlement officers in the case of districts of which the settlement is in the early stages, while in other cases the average yield has been worked out mainly from the areas and yields given in the assessment reports, and where the results differed materially from the yields fixed in 1907 without any change in agricultural conditions having taken place, the settlement officers' estimates have been preferred. There is no doubt that the yields now fixed, based as they are on the over-cautious estimates of settlement officers, are too low, but they are at any rate placed on a uniform basis. The result of the revision is a reduction of the yields of all the crops except rapeseed and sugarcane the averages for which have been raised. The most important changes are the reduction of the yield of bajra from 462 lbs to 379 lbs and of that of gram from 701 lbs to 549 lbs, and the increase of the yield of rapeseed from 254 lbs to 396 lbs.

*Burma.*—The number of experiments made in the quinquennium ending 1911-12 was on the whole larger than in the previous quinquennium, and, as in the past, the majority of the experiments were conducted by sub-divisional and township officers. The Provincial Director of Agriculture remarks that this arrangement is far from satisfactory, that the improvement of the system was considered, but that no change appears to be feasible for the present. In order to show the main product only, the following deductions have been made from the gross outturn of the crops, namely, for rice and jawar 33 per cent, and for cotton 70 per cent. The estimates of average outturn of rice, wheat, jawar, and gram have been lowered while those of cotton and sesamum have been raised. The figures for the bean crop now discriminate between *Pegyi* (*Dolichos lablab*) and *Pegya* (*Phaseolus lunatus*) which are the most important varieties exported.

*Central Provinces and Berar.*—Experiments have been selected with greater care in the present quinquennium than in the past, and due attention has been given to seasonal peculiarities and to classes of soil. The average yield has been raised in the case of rice, jawar, gram, linseed, and sugarcane, and lowered in the case of sesamum and cotton. In order to show the yield of the main product a deduction of 38 per cent has been made in the case of rice and of 70 per cent in the case of cotton.

*Assam.*—In the previous quinquennium figures for Assam were not shown separately, but they were combined with those for the districts of Eastern Bengal to give the average for the province of Eastern Bengal and Assam. The present return has been prepared for the province of Assam since its re-constitution on 1st April 1912. Detailed figures for each district are not available except for winter rice, rape and mustard, sugarcane, and cotton; these show a general increase over the previous estimates. In the case of cotton a deduction varying between 50 and 60 per cent has been made to obtain the yield of cleaned cotton. In almost all districts the number of experiments conducted during the period under review fell short of that made in any of the previous periods. The results, however, are stated to have been generally

reliable and to have tallied for the most part with the estimates made by settlement officers in some of the districts where important settlement operations were in progress.

*North-West Frontier Province.*—In the five years under review experiments were made by the district staff in only two districts, and the figures for those districts have been checked and modified where necessary on the basis of those experiments. For the other districts the averages previously adopted on the basis of estimates framed by settlement officers have been repeated. The Provincial averages have been raised slightly for all the crops except maize for which the figure has been reduced from 1,342 lbs to 1,292 lbs.

*Ajmer-Merwara.*—The figures reported appear to be merely averages of the results of the experiments conducted during the five years of the period without any consideration as to whether any of those years was of an average character or not. The yield of barley, maize, and cotton has been raised and that of jawar lowered, the most important change being the reduction of the yield of jawar from 424 lbs to 137 lbs. A reduction of 70 per cent has been made, as before, to obtain the yield of cleaned cotton.

*Coorg.*—The only experiments made have as usual been on rice. The average yield has been lowered from 1,507 lbs to 1,483 lbs, which is still very high in comparison with the reported yield of other provinces, but is ascribed partly to increased attention being paid to rice cultivation since the decline of the coffee industry and partly to the rice lands of Coorg being watered by hill streams which contain much manurial matter. [From experiments since made the average outturn comes to 1,316 lbs.]

*Mysore.*—The rainfall in the quinquennium under review is stated to have been generally erratic. The average yield of rice has been reduced from 879 lbs to 841 lbs, of sesamum from 215 lbs to 199 lbs, of sugarcane from 3,279 lbs to 3,138 lbs and of cotton from 89 lbs to 79 lbs, while that of ragi has been raised from 562 lbs to 581 lbs and of horse gram from 229 lbs to 257 lbs.

APPENDIX A—continued

No. 1.—AVERAGE OUTTURNS (lb PER ACRE) OF PRINCIPAL CROPS IN EACH PROVINCE OF BRITISH INDIA AND IN MYSORE REVISED WITH REFERENCE TO CROP EXPERIMENTS MADE UP TO THE YEAR 1911-12

PROVINCE	Rice (husked) ( <i>Oryza Sativa</i> )	Wheat ( <i>Triticum Sativum</i> )	Barley ( <i>Hordeum vulgare</i> )	Jawar ( <i>Sorghum vulgare</i> )	Bajra ( <i>Pennisetum typhoides</i> )	Ragi ( <i>Elysius coracana</i> )	Maize ( <i>Zea Mays</i> )	Peas and beans
Bengal	{ Irrigated (a) 988 Unirrigated (b) 1,104 (c) 807 }	861	...	...	...	...	...	...
Madras	{ Irrigated 1,193 Unirrigated 887 }	...	...	1,379 721	1,020 659	1,419 1,075	...	...
Bombay	{ Irrigated ... Unirrigated 1,230 Both ... }	1,250 510 575	...	1,550 670	...	1,400 1,060	...	...
Sind	Irrigated ...	1,340	1,076	1,398	971	...	...	...
United Provinces	{ Irrigated 1,100 Unirrigated 850 Both 900 }	1,250 850 1,050	1,300 900 1,100	...	650	...	...	(a) 1,150 (b) 600 (c) 1,000
Bihar and Orissa*	{ Irrigated (a) 1,234 Unirrigated (b) 800 (c) 800 }	(d) 984 (e) 451	881	...	...	820	820	...
Punjab	{ Irrigated 782 Unirrigated 474 Both 688 }	898 555 726	1,018 592 716	488 381 406	521 365 379	...	1,112 766 908	...
Upper Burma	{ Irrigated 1,094 Unirrigated 891 Both 997 }	...	322	...	264	...	...	(f) 478 (g) 855
Lower Burma	Unirrigated 1,140	...	...	...	...	...	...	...
Central Provinces and Berar	{ Irrigated ... Unirrigated ... Both 624 }	600	...	...	664	...	...	...
Assam	Unirrigated { (a) 1,008 (c) 672 }	...	...	...	...	...	...	...
North-West Frontier	{ Irrigated 1,205 Unirrigated ... Both ... }	874 559 633	1,189 736 876	...	436	704 489 502	1,358 785 1,292	...
Ajmer-Merwara	{ Irrigated ... Unirrigated ... Both ... }	...	1,248 550 1,168	...	137	...	946 855 868	...
Coorg	Unirrigated 1,483	...	...	...	...	...	...	...
Average for British India	1,005	814	877	904	566	1,147	986	833
Mysore	{ Irrigated 841 Unirrigated ... }	...	...	...	...	581	...	...

NOTE.—The average yield of both irrigated and unirrigated land is ascertained by multiplying the yield of irrigated land by the irrigated area cropped, and that of unirrigated land by the unirrigated area cropped, and dividing the sum of these two products by the total area cropped.

\* The estimates for Bihar and Orissa are the standards, adopted provisionally by the Agricultural Department of the province, which are partly based on the information collected in 1892. The results of the experiments for the period ending 1911-12, regarded in Appendix A—No. 6, are not considered sufficiently reliable to justify a revision of the provisional estimates.

(a) Winter (b) Spring or Summer (c) Autumn (d) Bihar (e) Chota Nagpur  
(f) *Dolichos lablab* (g) *Phaseolus lunatus* (h) *Pisum Sativum*.

AVERAGE YIELD OF CROPS  
(ALL PROVINCES)

Arhar ( <i>Cajanus indicus</i> )	Gram ( <i>Cicer arietinum</i> )	Linseed ( <i>Linum usitatissimum</i> )	Fil or jinjili (sesamum) ( <i>Sesamum indicum</i> )	Raps and mustard ( <i>Brassica sp</i> )	Sugarcane ( <i>gür</i> ) ( <i>Saccharum officinarum</i> )	Cotton (cleaned) ( <i>Gossypium sp</i> )	Jute ( <i>Corchorus sp</i> )	PROVINCE
...	881	492	...	492	2,905	155	1,271	{ Irrigated Unirrigated } Bengal
...	...	...	373	...	6,701	87	...	Irrigated } Madras Unirrigated }
...	...	...	298	...	...	55	...	
...	1,200	...	...	...	6,950	...	...	Irrigated } Bombay Unirrigated } Both }
...	410	360	400	625	...	100	...	
...	470	...	394	602	4,233	380	...	Irrigated Sind
...	950	...	...	...	2,600	220	...	Irrigated } United Provinces Unirrigated } Both }
750	800	500	280	600	...	130	...	
...	800	...	...	...	...	160	...	
...	881	492	...	492	2,460	155	1,200	{ Irrigated Unirrigated } Bihar and Orissa
...	625	...	...	498	1,748	126	...	Irrigated } Punjab Unirrigated } Both }
...	534	...	...	330	1,467	95	...	
...	549	...	...	396	1,686	118	...	
...	414	...	229	...	...	122	...	{ Irrigated Unirrigated } Upper Burma Both }
...	...	...	...	...	...	...	...	Unirrigated Lower Burma
...	532	226	224	...	2,569	86	...	{ Irrigated Unirrigated } Central Provinces and Both } Berar
...	...	448	448	504	1,904	154	1,200	Unirrigated Assam
...	730	...	...	544	2,430	173	...	Irrigated } North-West Frontier Unirrigated } Both }
...	449	...	...	411	...	142	...	
...	449	...	...	418	...	160	...	
...	...	...	...	...	...	180	...	Irrigated } Ajmer-Merwara Unirrigated } Both }
...	...	...	...	...	...	127	...	
...	...	...	...	...	...	170	...	
...	...	...	...	...	...	...	...	Unirrigated Coorg
815	688	360	273	467	2,719	98	1,263	Average for British India
...	257	...	199	...	3,138	79	...	{ Irrigated Unirrigated } Mysore

APPENDIX A—continued

No. 2.—AVERAGE YIELD (lb PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF BENGAL

DISTRICT	WINTER RICE		AUTUMN RICE		SUMMER RICE		Wheat
	Transplanted	Broadcast	Transplanted	Broadcast	Transplanted	Broadcast	
Bardwan	{ Irrigated	1,026	1,517	1,183	...	...	...
	{ Unirrigated	1,082	...	1,109	692	...	...
Birbhum	{ Irrigated	1,385	...	...	218	...	1,097
	{ Unirrigated	1,023	1,222	...	...	...	...
Bankura	{ Irrigated	1,258	1,286	1,061	...	...	...
	{ Unirrigated	...	...	...	...	...	...
Midnapur	{ Irrigated	1,135	1,072	...	...	945	...
	{ Unirrigated	813	801	980	811	...	...
Hooghly	{ Irrigated	1,278	...	947	...	...	...
	{ Unirrigated	1,116	935	696	714	...	...
Howrah	{ Irrigated	...	...	...	...	...	...
	{ Unirrigated	908	...	...	...	...	...
24 Parganas	{ Irrigated	1,773	...	...	...	...	...
	{ Unirrigated	1,254	1,426	1,323	1,018	...	...
Nadia	{ Irrigated	...	...	...	...	...	...
	{ Unirrigated	1,056	1,151	...	901	...	...
Murshidabad	{ Irrigated	1,116	...	...	...	...	...
	{ Unirrigated	1,053	...	...	819	...	695
Jessore	{ Irrigated	...	...	...	...	...	...
	{ Unirrigated	1,068	811	...	941	...	...
Khulna	{ Irrigated	...	...	...	1,080	...	...
	{ Unirrigated	1,078	1,146	900	716	...	...
Rajahahi	{ Irrigated	...	...	...	...	...	...
	{ Unirrigated	868	894	...	727	...	...
Dinajpur	{ Irrigated	...	...	...	...	...	...
	{ Unirrigated	1,087	656	469	911	...	...
Jalpaiguri	{ Irrigated	...	...	...	...	...	...
	{ Unirrigated	1,070	...	...	709	...	...
Darjeeling	{ Irrigated	1,111	...	...	...	...	...
	{ Unirrigated	1,101	698	...	666	...	...
Rangpur	{ Irrigated	...	...	...	...	...	...
	{ Unirrigated	1,002	706	...	976	...	...
Bogra	{ Irrigated	...	...	...	...	...	...
	{ Unirrigated	1,023	713	...	827	...	...

Barley (a)	Gram	Rape and mustard	Linseed	Sesamum (til)	Potato (a)	Sugarcane (gár)	Cotton (cleaned) (a)	Jute	DISTRICT
826	...	...	...	...	14,783	3,872	...	...	Irrigated } Bardwan Unirrigated }
...	...	...	...	...	...	2,097	...	...	Irrigated } Birbhum Unirrigated }
...	...	...	...	...	...	5,811	...	...	...
...	...	...	...	...	...	1,677	...	...	Irrigated } Bankura Unirrigated }
...	...	...	...	...	...	...	...	895	Irrigated } Midnapur Unirrigated }
...	...	...	...	...	...	...	...	1,342	...
...	...	...	...	...	15,426	3,573	...	...	Irrigated } Hooghly Unirrigated }
...	...	...	...	...	...	3,250	...	1,057	...
...	...	...	...	...	...	5,011	...	...	Irrigated } Howrah Unirrigated }
...	...	...	...	...	...	1,656	...	898	...
...	...	...	...	...	...	3,878	...	...	Irrigated } 24-Parganas Unirrigated }
...	...	...	...	...	...	...	...	1,289	...
1,234	709	...	482	...	...	2,730	...	1,077	Irrigated } Nadia Unirrigated }
882	1,626	...	556	...	...	...	...	1,308	Irrigated } Murshidabad Unirrigated }
...	...	...	...	...	...	...	...	...	Irrigated } Jessore Unirrigated }
...	...	244	...	...	...	...	...	1,249	...
...	...	...	...	...	...	...	...	...	Irrigated } Khulna Unirrigated }
...	...	...	...	...	...	...	...	2,468	...
...	...	...	...	...	...	1,080	...	1,201	Irrigated } Rajshahi Unirrigated }
...	...	...	...	...	...	...	...	...	Irrigated } Dinajpur Unirrigated }
...	...	461	...	...	...	1,396	...	1,159	...
...	...	...	...	...	...	...	...	...	Irrigated } Jalpaiguri Unirrigated }
...	...	660	...	...	...	1,000	80	978	...
...	...	...	...	...	...	...	...	928	Irrigated } Darjeeling Unirrigated }
...	...	...	...	...	...	...	...	994	...
...	...	...	...	...	...	3,587	...	1,216	Irrigated } Rangpur Unirrigated }
...	...	295	...	...	...	...	...	...	...
...	...	...	...	...	...	3,616	...	1,072	Irrigated } Bogra Unirrigated }

(a) The figures are based on experiments made up to 1906-07

APPENDIX A—continued

No. 2.—AVERAGE YIELD (Tb PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF BENGAL—continued

DISTRICT	WINTER RICE		AUTUMN RICE		SUMMER RICE		Wheat	
	Trans-planted	Broadcast	Trans-planted	Broadcast	Trans-planted	Broadcast		
Pabna	{ Irrigated Unirrigated	657	720					
Maldah	{ Irrigated Unirrigated	1,151	1,844	846			586	
Dacca	{ Irrigated Unirrigated	1,619	905	718			517	
Maimensingh	{ Irrigated Unirrigated	1,123	1,001	748	1,174	1,469		
Faridpur	{ Irrigated Unirrigated		887	975				
Bakarganj	{ Irrigated Unirrigated	889		530	709			
Chittagong	{ Irrigated Unirrigated	1,154	1,388	1,130	846	1,250	844	
Tippera	{ Irrigated Unirrigated	910	1,029	946				
Noakhali	{ Irrigated Unirrigated	849	943	642				
Chittagong Hill Tracts	{ Irrigated Unirrigated	1,900		1,018	1,000			
Average for the Province	{ Irrigated Unirrigated	1,260 1,092	1,292 988	1,064 906	649 813	945 1,212	1,156	1,097 593

NOTE.—The provincial average is the sum of the District figures divided by the number of districts



Barley (a)	Gram	Rape and mustard	Linseed	Sesamum (til)	Potato (a)	Sugar- cane ( <i>gür</i> )	Cotton (cleaned) (a)	Jute	DISTRICT
...	...	680	...	679	...	...	...	1,181	Irrigated } Pabna Unirrigated }
...	...	...	...	...	...	...	...	...	...
...	380	625	250	...	...	...	...	848	Irrigated } Malda Unirrigated }
...	...	...	...	...	...	...	...	...	...
...	1,003	876	140	679	...	...	...	1,394	Irrigated } Dacca Unirrigated }
...	...	...	...	...	...	...	...	...	...
...	...	377	...	470	...	2,784	...	1,225	Irrigated } Maimensingh Unirrigated }
...	...	...	...	...	...	...	...	...	...
...	...	285	...	...	...	2,966	...	1,719	Irrigated } Faridpur Unirrigated }
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	871	...	894	Irrigated } Bakarganj Unirrigated }
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	4,600	...	...	Irrigated } Chittagong Unirrigated }
...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	1,397	Irrigated } Tippera Unirrigated }
...	...	...	...	...	...	...	...	...	...
...	...	200	...	237	...	...	...	...	Irrigated } Noakhali Unirrigated }
...	...	...	...	...	...	...	...	...	...
...	...	540	...	...	...	...	128	...	Irrigated } Chittagong Hill Unirrigated } Tracts
...	...	...	...	...	...	...	...	...	...
980	917	478	345	516	15,100	3,268 2,719	104	911 1,229	Irrigated } Average for the Unirrigated } Province.

(a) The figures are based on experiments made up to 1906-07

APPENDIX A—continued

No. 3.—AVERAGE YIELD (lb PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF MADRAS

DISTRICT	Rice (husked) (a)	Jawar	Bajra	Ragi	Til or jinjili (sesamum)	Sugaroans (guir)	Cotton (cleaned)
Ganjam { Irrigated	1,087	...	...	1,169	305	5,376	...
Ganjam { Unirrigated	...	...	684	714	248	...	...
Visagapatam { Irrigated	1,269	...	995	1,262	491	7,231	...
Visagapatam { Unirrigated	...	...	878	996	401	...	...
Godavari { Irrigated	1,022	...	...	740	343	7,139	...
Godavari { Unirrigated	...	989	589	841	136	...	...
Kistna { Irrigated	1,090	1,209	...	1,214	449	4,396	...
Kistna { Unirrigated	...	818	616	1,110	228	...	118
Guntur { Irrigated	1,339	...	1,487	1,862	...	...	...
Guntur { Unirrigated	...	720	713	1,543	...	...	70
Nellore { Irrigated	1,067	1,533	1,217	1,697	274	...	...
Nellore { Unirrigated	...	617	986	1,232	182	...	20
Karnul { Irrigated	1,223	...	...	1,669	...	5,241	...
Karnul { Unirrigated	...	591	516	752	167	...	49
Bellary { Irrigated	1,187	...	...	1,042	...	7,185	...
Bellary { Unirrigated	...	486	471	447	232	...	52
Anantapur { Irrigated	1,286	1,391	...	1,365	...	6,067	...
Anantapur { Unirrigated	...	689	477	1,085	140	...	39
Cuddapah { Irrigated	1,437	...	...	1,625	...	7,403	35
Cuddapah { Unirrigated	...	661	626	1,743	...	...	36
North Arcot { Irrigated	1,368	1,688	1,183	1,429	494	6,789	...
North Arcot { Unirrigated	...	932	667	1,038	432	...	...
Chingleput { Irrigated	1,078	...	913	1,176	266	...	...
Chingleput { Unirrigated	...	...	698	805	228	...	...
South Arcot { Irrigated	1,301	...	...	1,516	425	5,240	...
South Arcot { Unirrigated	...	...	693	1,040	340	...	...
Salem { Irrigated	1,511	1,341	623	1,414	482	8,435	...
Salem { Unirrigated	...	643	779	970	260	...	18
Coimbatore { Irrigated	1,438	1,216	1,026	1,629	385	8,638	...
Coimbatore { Unirrigated	...	1,180	594	1,652	380	...	67
Trichinopoly { Irrigated	1,452	853	559	1,194	270	3,436	...
Trichinopoly { Unirrigated	...	613	522	868	213	...	40
Tanjore { Irrigated	931	...	660	1,092	259	...	...
Tanjore { Unirrigated	...	...	780	502	270	...	...
Madura { Irrigated	1,552	1,011	...	1,026	474	...	...
Madura { Unirrigated	...	908	449	1,109	292	...	71
Ramnad (b) { Irrigated	1,232	...	...	2,835	...	...	...
Ramnad (b) { Unirrigated	...	...	...	...	...	...	58
Tinnevely { Irrigated	1,526	1,643	585	1,523	441	...	97
Tinnevely { Unirrigated	...	1,065	461	1,196	298	...	82
Nilgiris { Irrigated	...	...	...	...	...	...	...
Nilgiris { Unirrigated	1,335	...	...	962	...	...	...
Malabar { Irrigated	970	...	...	...	143	...	...
Malabar { Unirrigated	753	...	...	1,356	143	...	...
South Canara { Irrigated	916	...	...	...	...	...	...
South Canara { Unirrigated	1,014	...	...	...	...	...	...
Average for the Province { Irrigated	1,193	1,379	1,020	1,419	378	6,701	87
Average for the Province { Unirrigated	887	721	659	1,075	238	...	55

(a) The yield reported in unhusked rice has been reduced by 88 per cent  
(b) The figures relate to 1910-11 only

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**APPENDIX A**—*continued*

**No. 4**

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APPENDIX A—continued

No. 4.—AVERAGE YIELD (lb PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF BOMBAY

DISTRICT		Rice (husked)	Wheat	Jawar	Bajra	Ragi	Maize	Gram	Linseed
Ahmadabad	{ Irrigated Unirrigated	... 1,440	1,800 560	(a)1,080	... 840	... 1,440	... ...	... 500	... 350
Kaira	{ Irrigated Unirrigated	... 1,320	1,300 600	(a)1,050	... 970	... 1,440	... ...	... 500	... ...
Panch Mahals	{ Irrigated Unirrigated	... 1,200	1,300 700	(a)1,190	... 825	... 1,420	... 1,190	... 600	... 360
Broach	{ Irrigated Unirrigated	... 900	... 600	(a)1,160 (b)1,020	... 700	... 1,500	... ..	... 500	... ...
Surat	{ Irrigated Unirrigated	... 1,560	... 560	(a)760	... 600	... 1,200	... ...	... 500	... ...
West Khandesh	{ Irrigated Unirrigated	... 1,080	1,280 600	(a)720	... 450	... 900	... ...	1,200 500	... 360
East Khandesh	{ Irrigated Unirrigated	... 1,080	1,280 600	(a)720	... 380	... 900	... ...	1,200 500	... 360
Nasik	{ Irrigated Unirrigated	... 1,080	1,320 460	(b)1,400 520	... 360	1,400 850	... ...	1,200 350	... 360
Ahmadnagar	{ Irrigated Unirrigated	... 1,040	1,360 460	(b)1,800 (b)540	... 340	1,400 900	... v	1,200 380	... 360
Poona	{ Irrigated Unirrigated	... 1,120	1,080 350	(b)1,500 500	... 340	... 900	... ...	1,200 320	... 360
Sholapur	{ Irrigated Unirrigated	... 900	1,080 400	(b)1,500 (b)540	... 320	... ...	... ...	1,200 360	... 360
Satara	{ Irrigated Unirrigated	... 1,120	1,350 480	(b)1,500 720	... 360	... 900	... ...	1,200 380	... 360
Belgaum	{ Irrigated Unirrigated	... 1,140	1,200 560	... 800	... 400	... 900	... ...	... 400	... 360
Bijapur	{ Irrigated Unirrigated	... 800	1,080 400	... 540	... 320	... ...	... ..	... 340	... 360
Dharwar	{ Irrigated Unirrigated	... 1,140	... 500	... 1,000	... 450	... 1,200	... ...	... 500	... 360
Tanna	Unirrigated	1,200	...	...	...	770	...	400	... }
Kolaba	"	1,320	...	...	...	800	...	880	... }
Ratnagiri	"	1,020	...	...	...	680	...	320	... }
Kanara	"	1,320	...	...	...	1,470	...	480	... }
Average for the Province	{ Irrigated Unirrigated Both	... 1,230 ...	1,250 510 575	1,550 670 ...	... 400 ...	1,400 1,060 ...	... ... ...	1,200 410 ...	... 360 ...

(a) Kharif

(b) Rabi

AVERAGE YIELD OF CROPS  
(BOMBAY)

Sesamum (til or jinjili)	Sugarcane ( <i>gúr</i> )	Cotton (cleaned)	Rape and mustard	Spelt	Kodra ( <i>Paspalum scrobiculatum</i> )	Groundnut ( <i>Arachis hypogaea</i> )	DISTRICT
400	6,000	125	640	...	1,820	...	Irrigated } Unirrigated } Ahmadabad
400	6,000	115	675	...	1,275	...	Irrigated } Unirrigated } Kaira
400	5,000	100	600	...	1,130	...	Irrigated } Unirrigated } Panch Mahals
450	7,000	130	...	...	1,025	...	Irrigated } Unirrigated } Broach
400	7,000	120	...	...	1,120	3,000	Irrigated } Unirrigated } Surat
400	7,000	100	...	1,500	900	3,000	Irrigated } Unirrigated } West Khandesh
400	7,000	90	...	1,500	900	3,000	Irrigated } Unirrigated } East Khandesh
400	7,000	90	...	1,500	...	3,000	Irrigated } Unirrigated } Nasik
400	7,000	90	...	1,500	...	3,000	Irrigated } Unirrigated } Ahmadnagar
400	7,000	90	...	1,500	...	3,000	Irrigated } Unirrigated } Poona
400	7,000	90	...	1,500	...	3,000	Irrigated } Unirrigated } Sholapur
400	7,000	90	...	1,500	...	3,000	Irrigated } Unirrigated } Satara
400	7,000	100	...	1,500	...	3,000	Irrigated } Unirrigated } Belgaum
400	7,000	90	...	1,500	...	3,000	Irrigated } Unirrigated } Bijapur
400	7,000	120	...	1,500	...	3,000	Irrigated } Unirrigated } Dharwar
400	7,600	...	...	...	640	...	Irrigated } Unirrigated } Tanna
400	4,000	...	...	...	800	...	Irrigated } Unirrigated } Kolaba
400	4,000	...	...	...	675	...	Irrigated } Unirrigated } Ratnagiri
...	7,000	...	...	...	...	...	Irrigated } Unirrigated } Kanara
400	6,950	100	625	1,500	1,100	3,000	Irrigated } Unirrigated } Average for the Province Both

APPENDIX A—continued

No. 5.—AVERAGE YIELD (lb PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF THE UNITED PROVINCES OF AGRA AND OUDH

DISTRICT *		Rice (husked)	Wheat	Barley	Jawar	Bajra	Maize	Gram		
Almora	Naini Tal Almora	Irrigated	1,600	1,250	...	...	...	...		
		Garhwál Dehra-Dún	Unirrigated	1,400	1,000	...	...	...	...	
	Moradabad		Moradabad Saháranpur	Irrigated	1,050	1,250	1,300	...	...	1,000
		Bijnor Bareilly		Unirrigated	800	800	1,000	850	500	1,000
Muzaffarnagar			Musaffarnagar Meerut	Irrigated	1,000	1,300	1,500	...	...	...
		Unirrigated		800	850	1,000	700	450	1,200	800
Bulandshahr	Bulandshahr Aligarh	Irrigated	1,000	1,300	1,500	...	...	...	1,000	
		Unirrigated	700	900	1,000	650	650	1,200	800	
Mainpuri	Mainpuri Etáh	Irrigated	950	1,250	1,300	...	...	...	1,000	
		Etawáh Farukhabad	Unirrigated	600	700	800	650	500	1,200	700
	Muttra		Muttra Agra	Irrigated	850	1,300	1,400	...	...	...
		Unirrigated		550	700	750	650	650	800	700
Budaun	Budaun Shahjáhanpur	Irrigated	950	1,250	1,250	...	...	...	1,000	
		Unirrigated	750	800	1,000	650	550	1,300	800	
Sitapur	Sitapur Hardoi	Irrigated	1,000	1,250	1,300	...	...	...	950	
		Unirrigated	800	900	1,100	650	550	1,200	900	
Bahraich	Bahraich Pilibit	Irrigated	1,050	1,300	1,300	...	...	...	1,000	
		Kheri	Unirrigated	900	1,050	1,100	600	550	1,300	950

\* 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.

AVERAGE YIELD OF CROPS  
(UNITED PROVINCES)

Pean	Arhar	Linseed	Sesamum (til or jinjill)	Rape and mustard	Sugarcane ( <i>gur</i> )	Cotton (cleaned)	Indigo (dye)	District		
...	...	...	...	...	...	...	...	Irrigated	Naini Tal Almora	Almora
...	...	...	...	...	...	...	...	Unirrigated		
750	...	...	...	...	2,450	...	18	Irrigated	Moradabad Saháranpur	Moradabad
500	...	400	320	480	...	120	...	Unirrigated		
800	...	...	...	...	2,800	200	19	Irrigated	Muzaffarnagar Meerut	Muzaffarnagar
550	...	...	350	490	...	140	...	Unirrigated		
1,000	...	...	...	...	2,500	200	19	Irrigated	Bulandshahr Aligarh	Bulandshahr
650	...	...	350	490	...	130	...	Unirrigated		
800	...	...	...	...	2,200	230	15	Irrigated	Mainpuri Etáh	Mainpuri
550	...	...	410	...	...	160	...	Unirrigated		
650	...	...	...	...	2,000	230	15	Irrigated	Muttra Agra	Muttra
400	...	...	410	...	...	150	...	Unirrigated		
650	...	...	...	...	2,400	...	18	Irrigated	Budaun Shahjáhanpur	Budaun
400	...	400	320	480	...	120	...	Unirrigated		
1,000	...	...	...	...	2,700	...	...	Irrigated	Sitapur Hardoi	Sitapur
650	550	500	390	570	...	110	...	Unirrigated		
850	...	...	...	...	2,000	...	...	Irrigated	Bahraich Pilibit	Bahraich
600	800	500	330	700	...	110	...	Unirrigated		

APPENDIX A—continued

No. 5.—AVERAGE YIELD (lb PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF THE UNITED PROVINCES OF AGRA AND OUDH—continued

DISTRICT			Rice (husked)	Wheat	Barley	Jawar	Bajra	Maize	Gram
Unao	Unao	Irrigated	1,000	1,250	1,400	...	...	...	1,000
		Luoknow							
	Rae-Bareilly	Unirrigated	800	600	700	650	600	1,100	900
Sultanpur	Sultanpur	Irrigated	1,100	1,250	1,500	...	...	...	1,000
		Barabanki							
	Partabgarh	Unirrigated	800	650	800	650	650	1,100	950
	Fyzabad								
Fatehpur	Fatehpur	Irrigated	1,050	1,250	1,300	...	...	...	1,000
		Cawnpore							
	Allahabad	Unirrigated	800	600	700	650	550	1,000	900
Benares	Benares	Irrigated	1,000	1,100	1,300	...	...	...	800
		Jaunpur							
	Mirzapur	Unirrigated	700	600	800	650	500	1,000	600
Ballia	Ballia	Irrigated	1,200	1,250	1,250	...	...	...	950
		Ghazipur							
	Azamgarh	Unirrigated	900	750	800	650	700	1,100	900
Basti	Basti	Irrigated	1,050	1,250	1,300	...	...	...	900
		Gonda							
	Gorakhpur	Unirrigated	900	800	750	650	400	1,000	750
Jhansi	Jhansi	Irrigated	800	1,000	1,000	...	...	...	700
	Jalaun	Unirrigated	650	650	500	550	400	650	550
Banda	Banda	Irrigated	800	800	1,000	...	...	...	800
	Hamirpur	Unirrigated	700	500	500	550	400	650	750
Average for the Province	Irrigated		1,100	1,250	1,300	...	...	...	950
	Unirrigated		850	650	900	650	550	1,100	800
	Both		900	1,050	1,100	...	...	...	800



AVERAGE YIELD OF CROPS  
(UNITED PROVINCES)

Peas	Arhar	Linseed	Sesamum (til or jinjili)	Rape and mustard	Sugarcane ( <i>gúr</i> )	Cotton (cleaned)	Indigo (dye)	DISTRICT	
1,150	...	...	...	...	2,600	...	...	Irrigated	Unao Lucknow Rae-Bareilly
650	700	400	300	490	...	110	...	Unirrigated	
...	...	...	...	...	...	...	...	...	
1,200	...	...	...	...	2,600	...	20	Irrigated	Sultanpur Barabanki Partabgarh Fyzabad
650	850	500	390	...	...	110	...	Unirrigated	
...	...	...	...	...	...	...	...	...	
800	...	...	...	...	2,150	...	17	Irrigated	Fatehpur Cawnpore Allahabad
550	550	400	520	...	...	120	...	Unirrigated	
...	...	...	...	...	...	...	...	...	
1,200	...	...	...	...	2,600	...	19	Irrigated	Benares Jaunpur Mirzapur
550	700	500	280	...	...	100	...	Unirrigated	
...	...	...	...	...	...	...	...	...	
1,200	...	...	...	...	3,200	...	19	Irrigated	Ballia Ghazipur Azamgarh
650	900	650	280	660	...	100	...	Unirrigated	
...	...	...	...	...	...	...	...	...	
1,200	...	...	...	...	2,500	...	19	Irrigated	Basti Gonda Gorakhpur
600	650	500	280	570	...	100	...	Unirrigated	
...	...	...	...	...	...	...	...	...	
...	...	...	...	...	1,500	...	...	Irrigated	Jhansi Jalaun
...	...	400	280	...	...	120	...	Unirrigated	
...	...	...	...	...	1,500	...	...	Irrigated	Banda Hamirpur
...	500	500	280	...	...	120	...	Unirrigated	
1,150 600 1,000	...	500	280	600	2,600	220 130 160	18	Irrigated Unirrigated Both	Average for the Province

APPENDIX A—continued

No. 6.—AVERAGE YIELD (lb PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF BIHAR AND ORISSA

DISTRICT	WINTER RICE		AUTUMN RICE		SUMMER RICE		Wheat	Barley	Maize	
	Transplanted	Broadcast	Transplanted	Broadcast	Transplanted	Broad-cast				
Patna	{ Irrigated	742	343	...	...	...	...	970	714	549
	{ Unirrigated	661	394	...	...	...	...	667	442	405
Gaya	{ Irrigated	924	1,049	...	...	...	...	912	470	...
	{ Unirrigated	785	...	...	...	...	...	520	480	577
Shahabad	{ Irrigated	744	573	...	...	...	...	898	716	...
	{ Unirrigated	784	594	...	...	...	...	663	188	...
Saran	{ Irrigated	424	414	...	...	...	...	679	912	831
	{ Unirrigated	513	681	...	...	...	...	638	583	936
Champaran	{ Irrigated	...	...	...	...	...	...	...	617	...
	{ Unirrigated	304	1,037	511	464	...	...	784	702	802
Muzaffarpur	{ Irrigated	923	...	...	...	...	...	1,002	810	...
	{ Unirrigated	699	1,304	...	...	...	...	552	674	1,252
Darbhanga	{ Irrigated	950	...	...	...	...	...	648	453	...
	{ Unirrigated	502	900	399	...	...	...	521	436	1,108
Monghyr	{ Irrigated	754	450	694	...	...	...	894	...	...
	{ Unirrigated	504	...	...	...	246	...	552	312	1,008
Bhagalpur	{ Irrigated	927	...	...	...	...	...	984	654	868
	{ Unirrigated	792	951	957	457	...	...	831	699	601
Purnea	{ Irrigated	...	...	...	...	...	...	...	...	...
	{ Unirrigated	646	851	1,197	351	...	...	625	1,336	...
Santhal Parganas	{ Irrigated	1,036	598	...	...	...	...	...	...	...
	{ Unirrigated	1,081	...	...	...	...	...	1,214	...	730
Cuttack	{ Irrigated	840	857	...	1,036	707	720	...	...	...
	{ Unirrigated	682	958	945	732	964	...	...	...	...
Balasore	{ Irrigated	...	792	...	...	...	...	...	...	...
	{ Unirrigated	750	736	...	...	...	...	...	...	...
Angul	{ Irrigated	1,096	1,169	...	...	...	...	...	...	...
	{ Unirrigated	824	865	...	271	...	...	...	...	559
Puri	{ Irrigated	1,611	1,066	...	...	...	...	...	...	...
	{ Unirrigated	826	970	...	...	...	...	...	...	...
Sambalpur	{ Irrigated	1,221	1,107	...	564	...	...	...	...	...
	{ Unirrigated	1,038	1,109	921	792	...	...	...	...	...
Hazáribágh	{ Irrigated	669	489	...	...	...	...	...	...	...
	{ Unirrigated	615	483	...	414	...	...	...	...	731
Bánohi	{ Irrigated	1,193	...	...	...	...	...	...	...	...
	{ Unirrigated	880	893	...	464	...	...	...	...	...
Palámau	{ Irrigated	988	206	...	...	...	...	682	799	627
	{ Unirrigated	347	...	...	...	...	...	335	552	525
Mánbhum	{ Irrigated	1,278	...	...	...	...	...	...	...	...
	{ Unirrigated	1,288	...	...	463	...	...	...	...	1,470
Singhbhum	{ Irrigated	978	424	...	424	...	...	...	...	...
	{ Unirrigated	899	...	...	778	...	...	...	...	...
Average for the Province	{ Irrigated	958	681	694	675	707	720	852	688	719
	{ Unirrigated	734	848	822	519	605	...	659	582	854

NOTE.—The provincial average is the sum of the district averages divided by the number of districts

AVERAGE YIELD OF CROPS  
(BIHAR AND ORISSA)

Ragi or marua	Kodo ( <i>Paspalum scrobiculatum</i> )	Gram	Arhar	Peas	Masur ( <i>Lens esculenta</i> )	Rape and mustard	Linseed	Potato	Sugar- cane ( <i>guir</i> )	Cotton (cleaned)	Jute	DISTRICT
520	...	557	440	560	418	426	87	...	2,204	...	...	Irrigated Unirrigated } Patna
823	...	514	744	554	791	62	64	...	1,581	...	...	
499	...	726	...	...	...	...	448	...	...	...	...	Irrigated Unirrigated } Gaya
1,015	...	1,005	...	...	...	...	414	...	...	...	...	
...	...	784	...	...	...	...	...	...	...	...	...	Irrigated Unirrigated } Shababad
...	...	784	...	...	...	...	...	...	...	...	...	
...	...	...	1,331	...	...	...	...	...	...	...	...	Irrigated Unirrigated } Saran
722	731	1,029	644	645	...	...	...	...	2,895	...	...	
...	...	...	...	...	...	...	...	...	2,565	...	...	Irrigated Unirrigated } Champaran
...	650	...	1,081	...	...	523	1,234	...	4,469	...	...	
928	...	...	...	...	...	...	...	...	...	...	...	Irrigated Unirrigated } Muzaffarpur
872	...	...	192	...	...	298	...	...	...	84	...	
1,214	...	285	488	...	...	900	123	...	...	...	...	Irrigated Unirrigated } Darbhanga
871	...	254	655	...	604	471	...	2,084	...	53	...	
...	...	...	...	...	...	...	...	...	...	...	...	Irrigated Unirrigated } Monghyr
...	...	420	854	...	...	...	...	...	...	...	...	
...	...	961	...	...	...	...	...	...	1,196	...	...	Irrigated Unirrigated } Bhagalpur
694	...	269	1,154	...	...	...	44	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	Irrigated Unirrigated } Purnea
...	...	501	...	...	...	403	...	...	...	...	826	
...	...	...	...	...	...	...	...	...	...	...	...	Irrigated Unirrigated } Santhal Parganas
552	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	823	Irrigated Unirrigated } Cuttack
...	...	...	...	...	...	...	...	...	...	1,114	...	
...	...	...	...	...	...	...	...	...	...	...	...	Irrigated Unirrigated } Balasore
...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	1,196	...	...	Irrigated Unirrigated } Angul
...	...	...	...	...	...	252	...	...	1,509	...	...	
...	...	...	...	...	...	...	...	...	1,919	...	...	Irrigated Unirrigated } Puri
...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	2,689	...	...	Irrigated Unirrigated } Sambalpur
...	...	...	...	...	...	...	...	...	5,941	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	Irrigated Unirrigated } Hazaribagh
440	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	151	...	Irrigated Unirrigated } Ranchi
764	...	...	...	...	...	...	...	...	...	...	...	
...	...	281	...	...	...	197	...	...	...	...	...	Irrigated Unirrigated } Palamanu
...	...	329	165	...	...	170	51	...	...	...	...	
...	...	...	...	...	...	...	...	...	1,210	...	...	Irrigated Unirrigated } Manbhum
892	...	...	...	...	...	...	...	...	...	43	...	
...	...	...	514	...	...	...	...	...	...	...	...	Irrigated Unirrigated } Singhbhum
...	...	...	...	...	...	...	...	...	...	...	...	
790	...	597	746	560	418	509	218	...	1,354	...	823	Irrigated Unirrigated } Average for the Province
738	691	567	665	600	648	311	361	2,084	3,279	85	970	

APPENDIX A—continued

No. 7.—AVERAGE YIELD (lb PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF THE PUNJAB

DISTRICT		Rice (husked)	Wheat	Barley	Jawar	Bajra
Hissar	{ Irrigated	598	1,000	1,100	480	460
	{ Unirrigated	...	480	440	340	320
Rohtak	{ Irrigated	650	1,180	1,200	800	470
	{ Unirrigated	...	600	860	520	420
Gurgaon	{ Irrigated	...	1,040	1,340	600	520
	{ Unirrigated	...	570	650	440	340
Karnal	{ Irrigated	566	1,070	1,030	520	500
	{ Unirrigated	370	560	560	330	330
Ambala	{ Irrigated	715	1,060	900	520	520
	{ Unirrigated	468	720	560	350	360
Simla	{ Irrigated	...	600	...	...	...
	{ Unirrigated	...	560	...	...	...
Kangra	{ Irrigated	624	500	460	...	...
	{ Unirrigated	416	460	580	...	...
Hoshiarpur	{ Irrigated	975	840	830	...	530
	{ Unirrigated	585	700	700	...	350
Jalandhar	{ Irrigated	715	1,140	1,100	...	...
	{ Unirrigated	390	720	800	...	...
Ludhiana	{ Irrigated	364	1,160	1,160	570	400
	{ Unirrigated	286	520	520	530	370
Ferozpur	{ Irrigated	566	960	1,060	520	480
	{ Unirrigated	312	520	640	360	320
Multan	{ Irrigated	566	760	720	470	500
	{ Unirrigated	...	530	560	420	420
Jhang	{ Irrigated	...	820	820	560	560
	{ Unirrigated	...	600	600	460	420
Mianwali	{ Irrigated	...	500	520	420	480
	{ Unirrigated	...	480	580	370	420
Lyallpur	{ Irrigated	1,040	1,000	1,000	560	560
	{ Unirrigated	...	480	...	...	...
Montgomery	{ Irrigated	780	760	900	500	500
	{ Unirrigated	748	600	620	400	400
Lahore	{ Irrigated	832	960	1,060	520	560
	{ Unirrigated	338	520	620	320	320
Amritsar	{ Irrigated	1,040	1,050	1,000	...	...
	{ Unirrigated	546	640	540	...	...
Gurdaspur	{ Irrigated	806	1,050	1,000	580	580
	{ Unirrigated	546	720	660	440	510
Sialkot	{ Irrigated	1,040	960	1,000	...	600
	{ Unirrigated	650	600	700	400	500
Gujrat	{ Irrigated	798	900	1,000	540	680
	{ Unirrigated	...	600	700	480	540
Gujranwala	{ Irrigated	1,105	820	800	260	480
	{ Unirrigated	780	460	440	260	340
Shahpur	{ Irrigated	650	840	1,040	420	640
	{ Unirrigated	520	600	720	320	430
Jhelum	{ Irrigated	...	860	1,000	...	780
	{ Unirrigated	533	500	620	...	440
Rawalpindi	{ Irrigated	644	710	810	...	710
	{ Unirrigated	...	480	580	340	380
Attock	{ Irrigated	...	770	940	...	800
	{ Unirrigated	...	380	450	360	350
Dera Ghazi Khan	{ Irrigated	520	700	750	480	420
	{ Unirrigated	507	500	540	210	210
Muzaffargarh	{ Irrigated	650	700	720	430	450
	{ Unirrigated	520	500	520	330	380
Average for the Province	{ Irrigated	782	898	1,018	488	521
	{ Unirrigated	474	555	592	381	365
	{ Both	688	726	716	406	379

Maize	Gram	Rapeseed	Sugarcane (qtr)	Cotton (cleaned)	DISTRICT	
...	880	420	...	136	Irrigated	} Hissar
...	460	370	...	86	Unirrigated	
...	820	500	2,850	174	Irrigated	} Rohtak
...	570	400	1,740	105	Unirrigated	
...	900	800	1,720	140	Irrigated	} Gurgaon
...	610	370	930	116	Unirrigated	
1,120	980	560	2,140	175	Irrigated	} Karnal
640	540	360	1,250	96	Unirrigated	
1,120	980	560	2,140	144	Irrigated	} Ambala
700	640	360	1,840	96	Unirrigated	
...	...	...	...	...	Irrigated	} Simla
...	...	...	...	...	Unirrigated	
720	...	360	...	48	Irrigated	} Kangra
720	400	240	620	48	Unirrigated	
1,360	700	480	2,000	164	Irrigated	} Hoshiarpur
900	560	360	1,500	98	Unirrigated	
1,400	800	...	2,300	192	Irrigated	} Jalandhar
860	720	...	1,600	192	Unirrigated	
1,560	900	730	2,000	166	Irrigated	} Ludhiana
720	480	480	1,400	82	Unirrigated	
1,200	600	500	...	120	Irrigated	} Ferozpur
600	480	400	...	84	Unirrigated	
620	480	270	1,430	96	Irrigated	} Multan
...	420	210	...	66	Unirrigated	
800	500	480	...	107	Irrigated	} Jhang
580	500	240	...	77	Unirrigated	
...	480	330	...	78	Irrigated	} Mianwali
...	430	330	...	72	Unirrigated	
800	600	560	1,500	124	Irrigated	} Lyallpur
...	600	240	...	...	Unirrigated	
720	650	480	...	114	Irrigated	} Montgomery
480	520	400	...	69	Unirrigated	
1,100	580	500	1,700	132	Irrigated	} Lahore
480	560	350	1,000	72	Unirrigated	
1,130	740	580	2,000	147	Irrigated	} Amritsar
670	600	400	1,150	85	Unirrigated	
1,120	580	630	2,300	126	Irrigated	} Gurdaspur
750	570	350	1,520	93	Unirrigated	
1,020	600	480	1,640	135	Irrigated	} Sialkot
720	600	320	1,200	96	Unirrigated	
860	600	480	1,900	144	Irrigated	} Gujrat
620	600	320	...	90	Unirrigated	
840	600	400	1,280	102	Irrigated	} Gujranwala
500	620	350	1,070	76	Unirrigated	
960	600	560	1,600	132	Irrigated	} Shabpur
480	600	400	...	66	Unirrigated	
1,040	830	420	...	146	Irrigated	} Jhelum
820	570	280	...	61	Unirrigated	
1,270	...	290	...	116	Irrigated	} Rawalpindi
1,000	510	280	...	41	Unirrigated	
1,440	500	480	780	100	Irrigated	} Attock
580	540	240	...	68	Unirrigated	
...	300	240	...	100	Irrigated	} Dera Ghasi Khan
...	440	200	...	62	Unirrigated	
...	340	270	1,200	80	Irrigated	} Muzaffargarh
...	420	200	...	52	Unirrigated	
1,112	625	488	1,748	126	Irrigated	} Average for the Province
766	534	330	1,467	95	Unirrigated	
908	549	396	1,696	118	Both	



## APPENDIX A—continued A

No. 9.—AVERAGE YIELD (IN PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF THE CENTRAL PROVINCES AND BERAR

DISTRICT		RICE (HUSKED)		Wheat	Jawar	Gram	Linseed	Til or jinjli (sesa- mum)	Sugarcane (gur)	Cotton (cleaned)
		Trans- planted	Broad- onst							
Saugor	{ Irrigated	...	...	1,000	...	...	...	...	1,500	...
	{ Unirrigated	...	580	600	...	...	280	150	1,000	55
Damoh	{ Irrigated	...	...	...	580	500	...	...	1,500	...
	{ Unirrigated	...	495	600	...	...	200	150	1,000	55
Jubbulpore	{ Irrigated	...	...	...	580	480	...	...	1,500	...
	{ Unirrigated	620	495	620	450	580	250	150	1,000	60
Mandla	{ Irrigated	...	...	...	...	...	...	...	1,500	...
	{ Unirrigated	650	525	600	350	580	200	150	...	55
Suoni	{ Irrigated	990	930	...	...	...	...	...	1,500	...
	{ Unirrigated	650	545	620	450	580	250	150	...	55
Narsinghpur	{ Irrigated	...	...	...	...	...	...	...	1,500	...
	{ Unirrigated	...	435	660	450	580	280	200	1,000	...
Hoshangabad	{ Irrigated	...	...	...	...	...	...	...	1,500	...
	{ Unirrigated	...	435	620	450	520	250	250	1,000	...
Nimar	{ Irrigated	...	...	1,000	...	...	...	...	3,500	...
	{ Unirrigated	...	620	640	600	500	200	250	...	...
Betul	{ Irrigated	...	...	1,000	...	...	...	...	3,500	...
	{ Unirrigated	...	435	620	500	500	200	180	...	70
Chhindwara	{ Irrigated	...	...	1,000	...	...	...	...	3,500	...
	{ Unirrigated	...	435	600	600	500	220	180	...	90
Wardha	{ Irrigated	...	...	1,000	...	...	...	...	3,000	...
	{ Unirrigated	...	435	580	700	580	300	300	...	90
Nagpur	{ Irrigated	990	930	1,000	...	...	...	...	3,000	...
	{ Unirrigated	650	545	580	600	580	280	300	...	90
Chanda	{ Irrigated	990	930	...	...	...	...	...	3,500	...
	{ Unirrigated	650	545	600	650	550	250	300	...	80
Bhandara	{ Irrigated	990	930	...	...	...	...	...	1,500	...
	{ Unirrigated	650	545	450	450	480	200	300	...	45
Balághát	{ Irrigated	990	930	...	...	...	...	...	1,500	...
	{ Unirrigated	650	545	550	350	550	200	300	...	45
Raipur	{ Irrigated	990	930	...	...	...	...	...	3,000	...
	{ Unirrigated	620	570	600	350	450	180	150	1,000	45
Biláspur	{ Irrigated	990	930	...	...	...	...	...	2,500	...
	{ Unirrigated	620	570	600	350	450	180	150	1,000	45
Drug	{ Irrigated	990	930	...	...	...	...	...	1,500	...
	{ Unirrigated	620	570	600	350	450	180	150	1,000	45
Average for the Central Provinces	{ Irrigated	...	...	...	...	...	...	...	...	...
	{ Unirrigated	...	...	...	605	580	214	208	...	85
	{ Both	626	626	602	...	...	...	...	2,522	...
Akola	{ Irrigated	...	...	...	...	...	...	...	3,000	...
	{ Unirrigated	...	435	580	700	550	380	300	...	90
Amraoti	{ Irrigated	...	...	...	...	...	...	...	3,000	...
	{ Unirrigated	...	435	580	700	550	380	300	...	...
Buldana	{ Irrigated	...	...	1,000	...	...	...	...	3,000	...
	{ Unirrigated	...	435	580	700	580	380	300	...	85
Yeotmal	{ Irrigated	...	...	...	...	...	...	...	3,000	...
	{ Unirrigated	...	435	580	700	550	330	300	...	80
Average for Berar	{ Irrigated	...	...	...	...	...	...	...	...	...
	{ Unirrigated	...	...	...	700	550	380	300	...	87
	{ Both	435	435	580	...	...	...	...	3,000	...
Average for Central Pro- vinces and Berar	{ Irrigated	...	...	...	...	...	...	...	...	...
	{ Unirrigated	...	...	...	664	532	226	224	...	86
	{ Both	624	624	600	...	...	...	...	2,569	...

APPENDIX A—continued

No. 10.—AVERAGE YIELD (Q PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF ASSAM

District	Cultivation	Rice		
		Winter rice	Autumn rice (aui)	Spring rice (boro)
Sylhet		1,008		1,008
Cachar	Broadcast	672		
	Transplanted	1,120		
	Both	1,008		
Goalpara	Broadcast	560		
	Transplanted	1,120		
	Both	1,008		
Khasi and Jaintia Hills		1,120		
Kamrup	Broadcast	672		
	Transplanted	1,008		
	Both	896		
Garo Hills	Broadcast	672		
	Transplanted	1,120		
	Both	1,120		
Darrang	Broadcast	672		
	Transplanted	1,120		
	Both	1,008		
Nowgong	Broadcast	672		
	Transplanted	1,120		
	Both	896		
Sibsagar	Broadcast	672		
	Transplanted	896		
	Both	896		
Lakhimpur	Broadcast	672		
	Transplanted	1,008		
	Both	1,008		
Lushai Hills				
Average for the Province		1,008	672	

District	Matikalai (Phaseolus radiatus)	Rape and mustard	Linseed	Sesamum (til or jinjili)	Sugarcane (gur)	Cotton (cleaned)	Jute
Sylhet		448			2,240	100	
Cachar		448			2,240		
Goalpara		560			1,844		
Khasi and Jaintia Hills						100	
Kamrup		504			1,844		
Garo Hills						200	
Darrang		504			1,456		
Nowgong		504			1,456	100	
Sibsagar		560			2,016		
Lakhimpur		560			2,240		
Lushai Hills						100	
Average for the Province	560	504	448	448	1,904	154	1,200



APPENDIX A—continued

No. 11—AVERAGE YIELD (IN PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF THE NORTH-WEST FRONTIER PROVINCE

District	Irrigated	Unirrigated	Rice (husked)	Wheat	Barley	Jawar	Bajra
Hazdra	Irrigated	...	1,384	741	782	...	494
	Unirrigated	...	...	478	535	...	329
Peshawar	Irrigated	...	1,166	977	1,312	...	...
	Unirrigated	...	...	671	860	486	...
Kohat	Irrigated	...	...	828	828	...	1,029
	Unirrigated	...	...	494	535	...	507
Bannu	Irrigated	...	...	741	700	...	617
	Unirrigated	...	...	514	453	...	412
Dera Ismail Khan	Irrigated	...	...	840	1,374	...	648
	Unirrigated	...	...	561	611	...	508
Average for the Province	Irrigated	...	1,205	874	1,189	...	704
	Unirrigated	...	...	559	738	436	489
	Both	...	...	633	876	...	502

District	Irrigated	Unirrigated	Maize	Gram	Rape and mustard	Sugarcane (gu)	Cotton (cleaned)
Hazdra	Irrigated	...	1,316	...	439	1,975	93
	Unirrigated	...	741	...	329	...	57
Peshawar	Irrigated	...	2,226	...	625	2,575	185
	Unirrigated	...	...	...	455	...	...
Kohat	Irrigated	...	1,029	458	929	...	103
	Unirrigated	...	617	453	247	...	57
Bannu	Irrigated	...	864	741	412	1,975	113
	Unirrigated	...	...	412	288	...	57
Dera Ismail Khan	Irrigated	...	...	...	...	...	...
	Unirrigated	...	...	553	426	...	189
Average for the Province	Irrigated	...	1,956	736	544	2,430	173
	Unirrigated	...	785	449	411	...	142
	Both	...	1,292	449	418	...	160

AVERAGE YIELD OF CROPS  
(SIND, AJMER, COORG)

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APPENDIX A—continued

No. 12—AVERAGE YIELD (LB PER ACRE) OF PRINCIPAL CROPS (ALL IRRIGATED) IN EACH DISTRICT OF SIND

DISTRICT	Wheat	Barley	Jawar	Bajra	Gram	Sesamum (til or jinjuli)	Rape and mustard	Sugarcane (gur)	Cotton (cleaned)
Karachi . . . . .	1,777	1,279	1,222	954	325	480	426	4,320	...
Hyderabad . . . . .	1,200	960	1,719	1,280	373	515	640	4,146	355
Sukkur . . . . .	1,451	720	1,846	1,109	600	480	711	...	...
Larkana . . . . .	1,608	...	1,360	1,360	560	120	649	...	320
Upper Sind Frontier . . . . .	908	902	832	640	522	373	768	...	...
Thar and Parkar . . . . .	1,094	1,518	...	480	...	393	426	...	(a) 491 (b) 454
Average for the Province . . . . .	1,340	1,076	1,396	971	476	394	602	4,233	380

NOTE.—The average for the Province is the sum of the district averages divided by the number of districts  
(a) Abassi (Egyptian) (b) Metaffifi (Egyptian)

No. 13—AVERAGE YIELD (LB PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF AJMER-MERWARA .

DISTRICT	Barley	Jawar	Maize	Cotton (cleaned)	
Ajmer	Irrigated . . . . .	1,875	...	1,104	235
	Unirrigated . . . . .	300	185	760	127
Merwara	Irrigated . . . . .	1,121	...	788	125
	Unirrigated . . . . .	801	90	910	...
Average for the Province	Irrigated . . . . .	1,248	...	946	160
	Unirrigated . . . . .	550	137	835	127
	Both . . . . .	1,168	...	868	170

NOTE.—(1) The yield reported in uncleaned cotton has been reduced by 70 per cent to allow for the removal of the seed  
(2) The average for the province is the sum of the district averages divided by the number of districts

No. 14—AVERAGE YIELD (LB PER ACRE) OF PRINCIPAL CROPS IN COORG

DISTRICT	Rice (husked)	Rice straw (bye-product)
Coorg . . . . . Unirrigated	1,486	2,428

## APPENDIX A—concluded

No. 15—AVERAGE YIELD (lb PER ACRE) OF PRINCIPAL CROPS IN EACH DISTRICT OF THE MYSORE STATE

District		Rice (husked)	Ragi	Horse gram	Til or jinjili (sesamum)	Sugarcane (gur)	Cotton (cleaned)
Bangalore	Irrigated . . . . .	570	...	...	...	3,639	...
	Unirrigated . . . . .	...	792	251	219	...	...
Kolar	Irrigated . . . . .	819	...	...	...	4,947	...
	Unirrigated . . . . .	...	703	364	126	...	...
Tumkur	Irrigated . . . . .	678	...	...	...	2,758	...
	Unirrigated . . . . .	...	441	159	52	...	12
Mysore	Irrigated . . . . .	1,030	...	...	...	4,396	...
	Unirrigated . . . . .	...	355	299	209	...	71
Hassan	Irrigated . . . . .	814	...	...	...	2,348	...
	Unirrigated . . . . .	...	703	886	154	...	...
Shimoga	Irrigated . . . . .	689	...	...	...	989	...
	Unirrigated . . . . .	...	464	219	173	...	118
Kadur	Irrigated . . . . .	829	...	...	...	2,075	...
	Unirrigated . . . . .	...	619	218	301	...	80
Chitaldrug	Irrigated . . . . .	736	...	...	...	2,384	...
	Unirrigated . . . . .	...	784	123	183	...	83
Average for the Province	Irrigated . . . . .	841	...	...	...	3,198	...
	Unirrigated . . . . .	...	591	257	199	...	79

APPENDIX B.

STATEMENT OF CHANGES IN DISTRICT AND PROVINCIAL BOUNDARIES

PROVINCE	District from which transferred	AREA TRANSFERRED, AND LAND REVENUE THEREOF			District and province to which transferred	Number and date of notification of transfer
		Area in acres		Land revenue ₹		
		Cultivated	Total			
<b>EXTERNAL TRANSFERS</b>						
1910-11 United Provinces	Ballia district	...	176	251	Shahabad, Bengal	Government of Bengal, No. 459, dated 16th May 1910
1911-12	Rajshahi district	924,300	1,659,520	10,28,024	Bengal	Government of India, Home Department, No. 290, dated 22nd March 1912
	Dinajpur "	1,415,800	3,535,440	15,22,042		
	Jalpaiguri "	967,300	1,893,737	8,10,218		
	Rangpur "	1,510,400	2,226,511	10,16,878		
	Bogra "	469,900	869,760	4,95,717		
	Pabna "	774,200	1,179,898	4,22,879		
	Dacca "	1,255,800	1,780,480	5,37,029		
	Mymensingh "	2,517,300	4,062,352	8,70,016		
Eastern Bengal and Assam	Faridpur "	895,000	1,459,840	6,28,049		
	Backerganj "	1,670,200	2,389,436	17,38,554		
	Tippura "	1,123,400	1,699,360	11,02,205		
	Noakhali "	1,015,200	1,052,084	7,07,471		
	Chittagong "	632,900	1,694,892	11,94,909		
	Malda "	775,800	1,312,801	4,38,376		
	Chittagong Hill tracts.	85,100	3,288,320	55,715		
	Hill-Tippura State	(a)	2,615,040	(a)		
	Patna district	1,118,000	1,328,000	17,46,462	Bihar and Orissa	Government of India, Home Department, No. 269, dated 22nd March 1912
	Gaya "	1,922,900	3,015,660	14,82,097		
	Shahabad "	1,466,100	2,800,948	17,97,948		
	Darbhanga "	1,561,700	2,142,690	7,93,280		
	Muzaffarpur "	1,430,000	1,942,400	9,84,095		
	Saran "	1,236,100	1,711,286	12,73,712		
	Champaran "	1,322,700	2,259,840	5,16,060		
	Monghyr "	1,043,100	2,510,080	9,61,170		
	Bhagalpur "	1,655,900	2,663,319	6,58,180		
	Purnea "	2,164,600	3,196,153	11,86,391		
	Santhal Parganas	1,637,400	3,466,100	4,76,300		
Bengal	Cuttack district	1,229,700	2,340,307	12,54,476		
	Balasore "	894,200	1,332,621	6,80,372		
	Angul "	243,800	1,089,250	1,24,677		
	Puri "	750,100	1,699,360	7,07,046		
	Sambalpur "	909,100	2,447,360	2,03,729		
	Hazaribagh "	1,859,500	4,493,440	1,83,161		
	Ranchi "	2,187,500	4,544,832	3,13,833		
	Palamau "	572,900	3,144,960	1,39,554		
	Manbhum "	1,497,600	2,654,080	83,886		
	Singbhum "	853,400	2,490,240	1,46,365		
	Feudatory and Tributary States in Orissa and Chota Nagpur	(a)	18,334,720	(a)		
1912-13 United Provinces	Ballia district	45	46	41	Shahabad, Bihar and Orissa.	Government of Bihar and Orissa, No. 1996 R.A., dated 18th July 1914
1913-14 Bihar and Orissa	Saran district	51	51	15	United Provinces	No. 4701 R. (A).—11 J.-13, dated 7th October 1912
Upper Burma	Yamethin "	...	1,654	...	Southern Shan State.	No. 60, dated 23rd March 1914
1914-15 Upper Burma	Myitkyina district	622,592	622,592	...	Putao Estate	No. 16 dated 29th July 1914
Delhi	—	14,703	29,447	18,247	Meerut, United Provinces	No. 984-C., dated 22nd February 1915

(a) No information  
NOTE—This statement is explanatory of the variations in the areas shown in Table I

## APPENDIX B—continued

## STATEMENT OF CHANGES IN DISTRICT AND PROVINCIAL BOUNDARIES—continued

PROVINCE	District from which transferred	AREA TRANSFERRED AND LAND REVENUE THEREOF		Land revenue B	District to which transferred	Number and date of notification of transfer
		Area in acres				
		Cultivated	Total			
<b>INTERNAL TRANSFERS</b>						
<b>1910-11</b>						
Bengal	Bhagalpur district	Two villages	(b)	(b)	Barnes district	No. 289 Jur., dated 17th January 1911
Eastern Bengal	Jalpaiguri "	(a)	863	(a)	Rangpur "	No. 497-P. L., dated 4th February 1911.
United Provinces	Almora "	2,108	16,318	354	Naini Tal "	No. 1818-I-605, dated 1st September 1910
	Montgomery "	1,247	3,808	899	Lyallpur "	No. 2429, dated 15th September 1910
Punjab	Lyallpur "	289	1,835	79	Montgomery "	No. 450, dated 24th July 1911
Bombay	Shahpur "	66,895	195,548	40,375	Gujrat "	No. 222, dated 27th March 1911
	Thana "	137	397	868	Kolaba "	No. 4528, dated 18th May 1910
Sind	Thar and Parkar district	...	6	...	Hyderabad "	No. 5608, dated 21st June 1910
Madras	Cuddapah district	244,549	740,092	1,95,586	Anantapur "	No. 381 Rev., dated 16th July 1910
	Chingleput "	1,259	5,753	3,165	Nallore "	No. 29 Rev., dated 12th January 1911
Madras	Cuddapah "	216,530	1,067,455	4,24,019	Chittoor "	No. 130 Pub., dated 7th March 1911
	North Arcot "	329,874	2,564,337	7,95,608	" "	No. 127 Pub., dated 7th March 1911
	Salem "	166,944	345,171	1,94,242	North Arcot "	No. 129 Pub., dated 7th March 1911
	South Arcot "	194,530	646,222	3,87,853	" "	No. 128 Pub., dated 7th March 1911
	Salem "	224,856	441,939	4,12,722	Trichinopoly "	Nos. 358 Rev., dated 1st July 1910, and 475 Rev., dated 10th September 1910
Madras	Coimbatore "	225,861	391,776	3,78,679	" "	No. 474 Rev., dated 10th September 1910
	Tinnevelly "	37,581	46,939	25,667	Ramnad "	Nos. 564 and 565 Rev., dated 16th October 1910
	Ramnad "	1,334	1,908	2,642	Tinnevelly "	Nos. 566 and 567 Rev., dated 18th October 1910
<b>1911-12</b>						
Bengal (b)	Bakarganj district	4,815	5,987	7,359	Faizpur district,	No. 662 B. D., dated 25th March 1912
	" "	4,218	12,106	11,193	Noakhali "	
Punjab	Montgomery "	14	2,564	59	Lyallpur "	No. 123, dated 30th January 1912
Sind	Hyderabad "	...	99	...	Thar and Parkar district	No. 7496, dated 8th August 1911
Central Provinces	Mandla "	...	3,165	...	Balaghat district	No. 3186, dated 31st May 1904
<b>1912-13</b>						
Lower Burma	Pegu district	121,173	443,920	3,05,944	Insein district	No. 63, dated 17th February 1912
	Hanthawaddy "	393,729	737,638	10,85,006	" "	
Punjab	Delhi district (old)	201,129	287,349	4,19,836	Rohtak "	No. 2944-S, dated 1st October 1912
	" "	122,146	178,833	2,21,137	Gurgaon "	
	Ludhiana district	40	75	71	Malerkotla State	No. 429, dated 10th May 1913
	Malerkotla State	73	73	71	Ludhiana district	
	Montgomery district	1,005	5,958	690	Lahore "	
Bombay	" "	39,728	115,513	42,059	Lyallpur "	Nos. 222 and 223, dated 11th March 1913
	Belgaum "	1,252	1,311	1,033	Dharwar "	No. 10953, dated 29th November 1912
Sind	Hyderabad "	42,293	143,899	14,387	Thar and Parkar district	No. 9707, dated 19th October 1912
	Thar and Parkar district	79,382	304,427	2,51,573	Nawabshah district	
Berar	Hyderabad district	4,096	2,178,459	38,49,639	" "	No. 440, dated 29th August 1912
	Amraoti "	180	1,267	170	Baldana "	
	" "	180	18,785	8,089	Akola "	

(a) No information  
(b) Figures not given  
(c) Not given effect

CHANGES IN BOUNDARIES  
(ALL PROVINCES)

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APPENDIX B—concluded

STATEMENT OF CHANGES IN DISTRICT AND PROVINCIAL BOUNDARIES—concluded

PROVINCE	District from which transferred	AREA TRANSFERRED, AND LAND REVENUE THEREOF		Land Revenue R	District to which transferred	Number and date of notification of transfer
		Area and acres				
		Cultivated	Total			

INTERNAL TRANSFERS—continued

1913-14						
Bengal	Mymensingh dist.	369	407	(a)	Dacca district	No. 25599, dated 7th March 1914
	Khulna "	2,499	3,080	(b)	Faridpur "	No. 2275, dated 18th November 1913 and No. 3606, dated 28th March 1914
	Jessore "	5,101	10,747	(b)	" "	Ditto Ditto
Madras	Chittoor "	473	22,285	627	North Arcot,,	No. 556, dated 5th December 1913
Bihar and Orissa	Ranchi "	1,436	1,436	...	Palamau "	No. 6248-R.-11 J.-16, dated 11th September 1913
Punjab	Shahpur "	1,901	3,550	3,140	Gujrat "	No. 195, dated 10th February 1914
	" "	...	18	...	Attock "	No. 136, dated 11th February 1913
	Lyallpur "	24,086	56,929	12,544	Jhang "	No. 578, dated 9th September 1913
Upper Burma	Yamethin "	(a)	71,872	(a)	Meiktila "	No. 59, dated 29rd March 1914
	Meiktila "	283	4,992	367	Kyaukse "	No. 162, dated 19th May 1913
Berar	Akola "	3,544	9,093	1,184	Yeotmal "	No. 997, dated 21st June 1913
Assam	Sibsagar "	(a)	29,027	...	Nágá Hills "	No. 6953, dated 18th November 1913
Ajmer-Merwara	Ajmer "	68,795	572,001	(a)	Kekri "	No. 576-C., dated 21st March 1914
1914-15						
Madras	Ramnad district	8,101	9,620	16,083	Madura district	No. 80-Revenue, dated 17th February 1915
	Madura "	16,674	19,893	34,116	Ramnad "	No. 81-Revenue, dated 17th February 1915
Sind	Larkana "	130	649	974	Nawabshah district	No. 8065, dated 3rd September 1914
Punjab	Lyallpur "	257	511	214	Montgomery "	No. 208, dated 20th March 1915
Upper Burma	Myingyan "	443	1,318	1,175	Pakokku "	No. 172-5 L.—5, dated 10th February 1915
Lower Burma	Henzada "	217	217	418	Tharrawaddy "	Rectification of a survey error
Central Provinces	Nagpur "	2,817	4,154	1,719	Wardha "	No. 1139, dated 16th May 1914
Assam	Lakhimpur,,	(a)	95,430	...	North-East Frontier district	No. 5449-P., dated 12th October 1914

(a) Not available.  
(b) Revenue not affected.

## APPENDIX C

VERNACULAR TERMS USED IN VOLUME I OF AGRICULTURAL  
STATISTICS OF INDIA

- Agasi, agati, or avati* (*Sesbania grandiflora*)—A vegetable crop.
- Ajmod* (*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.
- Ampasham* (*spondius magnifera*)—The hog plum.
- Arhar* (*Cajanus indicus*)—The pigeon pea.
- Arunelli* (*Phyllanthus distichus*)—Country star gooseberry.
- Bajra* (*Pennisetum typhoideum*)—The spiked millet.
- Band* (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* (*Egle Marmelos*)—A fruit.
- Bhagdari* (see Narvadari).
- Bilimbi* (*Averrhoa Bilimbi*)—A fruit.
- Bimb* (*Cephalandra indica*)—A fruit.
- Chaplash* (*Artocarpus Chazlaska*)—A tree grown mainly for timber.
- Chayroot* (*Oldenlandia umbellata*)—A dye.
- Cheena* (*Panicum miliaceum*)—The common millet.
- Cheik* (*Coix lachryma-jobi*)—A food grain, "Job's Tear."
- Chikkudukayalu* (*Dolichos lablab*)—The Indian or popal bean.
- Cholam* (see jawar).
- Cholanathu* (*Andropogon sorghum*)—Fodder jawar.
- Chowli* (see Barbati).
- Quinbu* (see Bajra).
- Dani* (*Nipa fruticans*)—A scabiferous palm, the leaves of which are used for thatching purposes, also for matting.
- Dhaincha* (*Sesbania aculeata*)—A plant cultivated mainly for green manure.
- Dhatura* (*Datura alba*)—A drug.
- Dividivi* (*Casalpinia coriaria*)—A dye.
- Gajar*—Carrot.
- Garmal* (*Coleus barbatus*)—A fruit.
- Gondli* (see Kutki).
- Gorsit* (United Provinces)—Village watchman.
- Henna* (*Lawsonia alba*)—A dye.
- Indm* (Madras)—Alienated villages or lands granted rent-free. *W'hole indm* villages are entire villages held on such tenure; *minor indms* are portions of villages, generally a number of fields, held on *indm* tenure.
- Isfagul* (*Plantago ovata*)—A drug.
- Itamrari* (Punjab, Ajmer-Merwara)—A tenure which, though the revenue is assigned, is charged with a permanently fixed quit-rent.
- Isdfat* (Bombay)—A form of service tenure.
- 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.
- (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.

## APPENDIX C—continued

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

- Jawar* (*Sorghum vulgare*)—The great millet.
- Jenugulu*—Asparagus.
- Jinyali* (*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.
- Kaipayaru*—Kidney bean.
- Kangni* (*Panicum Italicum*)—Italian millet.
- Kamranga* (*Averrhoa Carambola*)—A fruit.
- Kanda* (*Dracontium*)—A vegetable crop.
- Kankrol* (*Momordica cochinchinensis*)—A vegetable crop.
- Karola* (*Momordica Charantia*)—A vegetable crop.
- Karwopilai* (*Murraya Konigii*)—A condiment.
- Kavali* (*Sterculia urens*)—The Indian katura, a fruit.
- Kavathu* (*Dioscorea alata*)—A tuber used as a food stuff.
- Kodo* or *Kutki* (*Paspalum Scrobiculatum*)—A kind of millet.
- Khalsa* (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.
- Korai*—The Indian matting sedge.
- Kolinji* (*Tephrosia purpurea*)—A drug.
- Koorka* (*Strobilanthes*)—A vegetable crop.
- Kuhudi* (*Panicum trypheron*)—A food grain.
- Kutthi* (*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.
- Makhan 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.
- Mamlatdar* (Bombay)—The chief revenue and police officer (native) in charge of a taluk.
- Mankachu* (*Alocasia indica*)—A root crop.
- Marua* (*Elusine 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.



## APPENDIX C—continued

## VERNACULAR TERMS USED IN VOLUME I OF AGRICULTURAL STATISTICS OF INDIA—contd.

- 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.
- Neerali* (*Gynocordia odorata*).—An oilseed.
- Neem or Margosa* (*Melia azadirachta*).—A non-food crop.
- Nela mulaka* (*Solanum xanthocarpum*).—The bogoda brinjal, a drug.
- Nisakhiraj* (Assam).—Land liable to pay half the revenue which is ordinarily payable for the term of settlement.
- Palampat* (Berar).—Land held on payment of a quit-rent, but not necessarily hereditary.
- Odamula* (*Ochlandra Rheedii*).—A reed.
- Ol or zaminkand*.—The elephant foot, a root crop.
- 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.
- Parpattigar* (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.
- Pimakottai or pouna*.—The mast wood.
- Ponnagantikura* (*Alternanthera sessilis*).—A vegetable crop.
- Poramboke* (Madras).—Lands reserved for public or village communal purposes.
- Pot inams* (Bombay).—Lands sub-alienated in alienated villages.
- Pot kharab* (Berar).—The unculturable area included in a survey number.
- Puliyavara* (*Oxalis corniculata*).—A vegetable crop.
- Ragi* (see Marua).
- 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.
- Randhuni* (see Ajmud).
- Sabai grass* (*Ischamum Augustifolium*).—A fibre plant.
- Sank-alu* (*Pachyrhizus angulatus*).—A root crop.
- Sapodilla* (*Achras Sapota*).—A fruit.
- Sebestan* (*Cordia Myxa*).—A fruit.
- Standog* (Coorg).—A village accountant appointed by Government.
- Shrotriem* (Madras).—Village held on grant (originally to Brahmins), wholly or partially revenue-free.
- Siris tree or vagai* (*Albizia Lebbek*).—A non-food crop.
- Sorrell* (*Rumex vesicarius*).—A vegetable crop.
- Sother*.—Radish.
- Swank* (*Panicum frumentaceum*).—A food grain.
- Talukdari* (Bombay).—A form of proprietary right in force in the northern districts of Bombay.
- Tejpat* (*Cinnamomum Tamala* and *C. obtusifolium*).—A spice.
- Thathameda* (Upper Burma).—Household tax.
- Thattan 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.
- Thugyi* (Burma).—A village headman.
- Thekke grass* (*Imperata arundinacea*).—A small perennial grass used chiefly for thatching purposes.

## APPENDIX C—concluded

VERNACULAR TERMS USED IN VOLUME I OF AGRICULTURAL  
STATISTICS OF INDIA—concl'd.

- Til* (*Sesamum indicum*).—An oilseed.
- Ukhhe* (*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 oil seed.
- Urad* (*Phaseolus radiatus*).—Black gram.
- Wudalu or barti* (*Panicum flavidum*).—A food grain.
- Zamindar* (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.

## APPENDIX D

## ALPHABETICAL LIST OF CROPS CULTIVATED IN INDIA AND THEIR CLASSIFICATION IN TABLE III.

NAME OF CROP		CLASSIFICATION
English or Vernacular	Botanical	Heads of classification in Table III
Agasi, agati or avati	<i>Sesbania grandiflora</i>	38. Fruits and Vegetables including root crops.
Agave	<i>Agave</i> spp.	23. Fibres—others.
Ajmud or Randhuni	<i>Carum Roxburghianum</i>	18. Condiments and spices.
Ajwan or Bishop's weed	<i>Carum Copticum</i>	18. " " "
Akurkura ( <i>see</i> <i>Chrysanthemum</i> )		
Al ( <i>see</i> <i>Morinda</i> )		
Aloes	<i>Aloe vera</i>	35. Drugs and Narcotics—others.
Alya ( <i>see</i> <i>Cress</i> )		
Amada or Mamidi allam	<i>Curcuma Amada</i>	18. Condiments and spices.
Amaranths	<i>Amarantus</i>	39. Misc. food crops.
Ampazham ( <i>see</i> <i>Plum</i> )		
Anise seed	<i>Pimpinella Anisum</i>	18. Condiments and spices.
Apple, wood	<i>Feronia elephantum</i>	38. Fruits and Vegetables including root crops.
" Rose	<i>Eugenia Jambos</i>	38. " " "
" Custard	<i>Anona squamosa</i> and <i>A. reticulata</i> .	38. " " "
Areca nut or Betel nut	<i>Areca Catechu</i>	35. Drugs and Narcotics—others.
Arhar or pigeon pea	<i>Cajanus indicus</i>	10. Other food grains, etc.
Arnatto or Arnotto	<i>Bixa Orellana</i>	28. Dyes—others.
Arrowroot, West Indian	<i>Maranta arundinacea</i>	39. Misc. food crops.
" Wild or East Indian	<i>Curcuma angustifolia</i>	39. " " "
Artichoke	<i>Cynara Scolymus</i> or <i>Centauria Cardunculus</i> .	38. Fruits and Vegetables including root crops.
Arum (edible), Kachu or Kachalu	<i>Colocasia Antiquorum</i>	38. " " "
Arunelli ( <i>see</i> <i>Gooseberry</i> , country star)		
Bajra ( <i>see</i> <i>Millet</i> )		
Barbati, Lobia, Jungulu, 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</i> <i>Wudalu</i> )		
Basil, sweet	<i>Ocimum Basilicum</i>	35. Drugs and Narcotics—others.
Beans	<i>Phaseolus lunatus</i>	38. Fruits and Vegetables including root crops.
" Asparagus ( <i>see</i> <i>Barbati</i> )		
" Sword or Makhan Sim	<i>Canavalia ensiformis</i> , <i>C. gladiata</i> .	38. Fruits and Vegetables including root crops.
" French	<i>Phaseolus vulgaris</i>	38. " " "
" Goa	<i>Psophocarpus tetragonolobus</i>	38. " " "
" Indian, Chikkudikayalu, or Popat	<i>Dolichos lablab</i>	38. " " "
" Kidney, Moth, or Kalpayaru	<i>Phaseolus aconitifolius</i>	38. " " "
" Soy	<i>Glycine hispida</i>	38. " " "
Beetroot	<i>Beta vulgaris</i>	38. " " "
Bel	<i>Ægle Marmelos</i>	38. " " "
Betel vine	<i>Piper Betle</i>	35. Drugs and Narcotics—others.
" nut ( <i>see</i> <i>Areca nut</i> )		
Bhindi ( <i>see</i> <i>Hibiscus</i> , edible)		
Bilimbi	<i>Averrhoa Bilimbi</i>	38. Fruits and Vegetables including root crops.
Bimb	<i>Cephalandra indica</i>	38. " " "
Bishop's weed ( <i>see</i> <i>Ajwan</i> )		
Borage, country	<i>Coleus aromaticus</i>	35. Drugs and Narcotics—others.
Brinjal	<i>Solanum Melongena</i> , <i>S. longum</i> .	38. Fruits and Vegetables including root crops.
" bogode or nela mulaka	<i>Solanum xanthocarpum</i>	35. Drugs and Narcotics—others.
Buck wheat ( <i>see</i> <i>Wheat</i> )		

APPENDIX D—continued

ALPHABETICAL LIST OF CROPS—contd.

NAME OF CROP		Botanical	Heads of classification in Table III
English or Vernacular	Local		
Cabbage		<i>Brassica oleracea</i>	38. Fruits and Vegetables including root crops.
Caraway or Jira		<i>Carum Carui</i>	18. Condiments and spices.
Black or Shahjira		<i>Carum Bulbocastanum</i>	18. " " " " "
Cardamom Aromatic		<i>Amomum aromaticum</i>	18. " " " " "
greater		" <i>subulatum</i>	18. " " " " "
lesser		<i>Elettaria Cardamomum</i>	18. " " " " "
Carob or Locust tree		<i>Ceratonia Siliqua</i>	37. Fodder-crops.
Carrot or Gajar		<i>Daucus Carota</i>	38. Fruits and Vegetables including root crops.
Cashew nut		<i>Anacardium occidentale</i>	38. " " " " "
Cassava		<i>Manihot utilisima</i> and <i>M. palmata</i>	38. " " " " "
Castor		<i>Ricinus communis</i>	16. Oilseeds—others.
Cauliflower		<i>Brassica oleracea</i>	38. Fruits and Vegetables including root crops.
Celery		<i>Apium graveolens</i>	38. " " " " "
Chaplash (see Sam tree)			
Chayroot		<i>Oldenlandia umbellata</i>	28. Dyes—others.
Cheena (see Millet)			
Cheik (see Job's Tear)			
Chicory		<i>Cichorium Intybus</i>	38. Fruits and Vegetables including root crops.
Chickling Vetch (see Vetch)			
Chillies		<i>Capsicum</i> sp.	18. Condiments and spices.
Chikkudukavali (see Beans, Indian)			
Cholum (see Millet)			
Cholanathu (fodder Cholum)		<i>Andropogon Sorghum</i>	37. Fodder crops.
Chowli (see Barbati)			
Chrysanthemum, Akurkura, or Jevandi		<i>Chrysanthemum corona-</i> <i>rium</i>	40. Miscellaneous non-food crops.
Cinchona		<i>Cinchona</i> sp.	38. Cinchona (see p. 40)
Cinnamon		<i>Cinnamomum zeylanicum</i>	18. Condiments and spices.
Citron or lime or lemon		<i>Citrus medica</i>	38. Fruits and Vegetables including root crops.
Cloves		<i>Eugenia caryophyllata</i> or <i>Caryophyllus aromaticus</i>	18. Condiments and spices.
Coconut or garu bari		<i>Cocos nucifera</i>	38. Fruits and Vegetables including root crops.
Coffee		<i>Coffea arabica</i>	38. Coffee (see p. 40)
Coriander		<i>Coriandrum sativum</i>	18. Condiments and spices.
Cotton		<i>Gossypium</i> sp.	21. Cotton.
Cress		<i>Lepidium sativum</i>	38. Fruits and Vegetables including root crops.
Cucumber		<i>Cucumis sativus</i>	38. " " " " "
Cumbu (see Millet)			
Cumin		<i>Cuminum Cyminum</i>	18. Condiments and spices.
Custard Apple (see Apple)			
Dani		<i>Nipa fruticans</i>	40. Miscellaneous non-food crops.
Date palm (see Palm)			
Dhaincha		<i>Sesbania aculeata</i>	40. Miscellaneous non-food crops.
Dhatara		<i>Datura alba</i>	35. Drugs and Narcotics—others.
Dill or Sowa		<i>Peucedanum graveolens</i>	16. Oilseeds—others.
Dividivi		<i>Casalpinia coriara</i>	28. Dyes—others.
Drumsticks or Horse-radish		<i>Moringa pterygosperma</i>	38. Fruits and Vegetables including root crops.
Elephant foot, Zaminkand or Ol		<i>Amorphophallus campanulatus</i>	38. " " " " "
Elephant yam		<i>Tryphonium trilobatum</i>	38. " " " " "
Fennel		<i>Foeniculum vulgare</i>	18. Condiments and spices.

## APPENDIX D—continued

## ALPHABETICAL LIST OF CROPS—contd.

English or Vernacular	NAME OF CROP		Heads of classification in Table III
	English or Vernacular	Botanical	
Fenugreek		<i>Trigonella foenum graecum</i>	18. Condiments and spices.
Field Vetch (see Vetch)			
Fig		<i>Ficus Carica</i>	38. Fruits and Vegetables including root crops.
Flea-bane, purple		<i>Vernonia anthelmintica</i>	35. Drugs and Narcotics—others.
Flowers			40. Miscellaneous non-food crops.
Gajar (see Carrot)			
Garlic		<i>Allium sativum</i>	18. Condiments and spices.
Garmal		<i>Coleus barbatus</i>	38. Fruits and Vegetables including root crops.
Gawar (see Vetch)			
Ginger		<i>Zingiber officinale</i>	18. Condiments and spices.
Goa bean (see Bean)			
Gondli (see Millet)			
Gooseberry, Cape—or tepari		<i>Physalis peruviana</i>	38. Fruits and Vegetables including root crops.
Country star or Arunelli		<i>Phyllanthus distichus</i>	38. " " " "
Goose foot		<i>Chenopodium album</i>	38. Fruits and Vegetables including root crops.
Gourd, Snake		<i>Trichosanthes anguina</i>	38. " " " "
" Bottle		<i>Lagenaria vulgaris</i>	38. " " " "
" Towel		<i>Luffa acutangula</i>	38. " " " "
Gourd, Red or melon pumpkin		<i>Cucurbita maxima</i>	38. " " " "
Gourd Melon, white		<i>Benincasa cerifera</i>	38. " " " "
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 (Mati kalai)		<i>Phaseolus radiatus</i>	10. " " " "
Grape		<i>Vitis vinifera</i>	38. Fruits and Vegetables including root crops.
Groundnut		<i>Arachis hypogaea</i>	15. Groundnut.
Guava		<i>Psidium Guajava</i>	38. Fruits and Vegetables including root crops.
Guinea grass		<i>Panicum maximum</i>	37. Fodder crops.
Gumberry		<i>Cordia Rothii</i>	38. Fruits and Vegetables including root crops.
Hemp, Indian, or Ganja		<i>Cannabis sativa</i>	34. Indian Hemp.
" Sunn		<i>Crotalaria juncea</i>	23. Fibres—others.
" Deccan		<i>Hibiscus cannabinus</i>	23. " " " "
" Sisal		<i>Agave sisalana</i>	23. " " " "
Henna		<i>Lawsonia alba</i>	28. Dyes—others.
Hibiscus, edible or bhindi		<i>Hibiscus esculentus</i>	38. Fruits and Vegetables including root crops.
Horse-radish (see Drumsticks)			
Indian Hemp (see Hemp)			
Indian worm wood (see Marukkolundu)			
Indigo		<i>Indigofera sumatrana and I. arrecta.</i>	27. Indigo.
Isfagul		<i>Plantago ovata</i>	35. Drugs and Narcotics—others.
Jack fruit		<i>Artocarpus integrifolia</i>	38. Fruits and Vegetables including root crops.
Jambotree (see Plum, black)			
Jawar (see Millet)			
Jenugulu (see Barbati)			
Jevandi (see Chrysanthemum)			
Jinjili (see Sesamum)			
Jira (see Caraway)			
Job's Tear or Cheik		<i>Coix lachryma-jobi</i>	10. Other food grains, etc.

## APPENDIX D—continued A

## ALPHABETICAL LIST OF CROPS—contd.

NAME OF CROP		Heads of classification in Table III
English or Vernacular	Botanical	
Jujube	<i>Zizyphus Jujuba</i>	38. Fruits and Vegetables including root crops.
Jute	<i>Corchorus sp.</i>	22. Jute.
Kachu or Kachalu ( <i>see Arum</i> )		
Kakri ( <i>see Melon</i> )		
Kalpayarn ( <i>see Beans, Kidney</i> )		
Kamranga	<i>Averrhoa Carambola</i>	38. Fruits and Vegetables including root crops.
Kanda	<i>Dracontium</i>	38. Ditto. ditto.
Kangni ( <i>see Millet</i> )		
Kankrol	<i>Momordica cochinchinensis</i>	38. Fruits and Vegetables including root crops.
Kaon ( <i>see Millet</i> )		
Kapok	<i>Eriodendron anfractuosum</i>	23. Fibres—others.
Karola	<i>Momordica Charantia</i>	38. Fruits and Vegetables including root crops.
Karuvapilai	<i>Murraya Koenigii</i>	18. Condiments and spices.
Kavali or Indian Katura	<i>Sterculia urens</i>	38. Fruits and Vegetable including root crops.
Kavathu, pannikkavathu, pallakavathu, kolkavathu	<i>Dioscorea alata</i>	38. Ditto. ditto.
Kharbuja ( <i>see Melon</i> )		
Khesari ( <i>see Vetch</i> )		
Khurfa ( <i>see Purslane</i> )		
Kidney bean ( <i>see Bean</i> )		
Kirni	<i>Mimusops hexandra</i>	39. Miscellaneous food crops.
Kodo ( <i>see Millet</i> )		
Korai ( <i>see Matting sedge, Indian</i> )		
Kokam ( <i>see Mangosteen</i> )		
Kolinji or vempali	<i>Tephrosia purpurea</i>	35. Drugs and Narcotics—others.
Koorka	<i>Strobilanthes</i>	38. Fruits and Vegetables including root crops.
Kuhudi	<i>Panicum trypheron</i>	10. Other food grains, etc.
Kulthi ( <i>see Gram</i> )		
Kutki ( <i>see Millet</i> )		
Lemon ( <i>see Citron</i> )		
Lentils	<i>Lens esculenta or Ervam lens</i>	10. Other food grains, etc.
Lettuce	<i>Lactuca Scariola</i>	38. Fruits and Vegetables including root crops.
Lime ( <i>see Citron</i> )		
Linseed	<i>Linum usitatissimum</i>	12. Linseed.
Lobia ( <i>see Barbati</i> )		
Locust tree ( <i>see Carob</i> )		
Lucerne	<i>Medicago sativa</i>	37. Fodder crops.
Madder	<i>Rubia tinctorum and R. cordifolia.</i>	28. Dyes—others.
Mahua	<i>Bassia latifolia and B. longifolia.</i>	39. Miscellaneous food crops.
Maize	<i>Zea Mays</i>	8. Maize.
Makhan Sim ( <i>see Beans, Sword</i> )		
Mango	<i>Mangifera indica</i>	38. Fruits and Vegetables including root crops.
Mangosteen or Kokam	<i>Garcinia indica</i>	38. " " "
Mankachu	<i>Alocasia indica</i>	38. " " "
Margosa or Neem tree	<i>Melia azadirachta</i>	40. Miscellaneous non-food crops.
Marians	<i>Bouea burmanica</i>	38. Fruits and Vegetables including root crops.
Marjoram	<i>Origanum vulgare</i>	18. Condiments and spices.
Marua ( <i>see Millet</i> )		
Marukkolundu or Indian wormwood	<i>Artemisia vulgaris</i>	40. Miscellaneous non-food crops.

## APPENDIX D—continued

## ALPHABETICAL LIST OF CROPS—contd.

NAME OF CROP		Heads of classification in Table III
English or Vernacular	Botanical	
Mast wood	Calophyllum inophyllum	16. Oilseeds—others.
Mati kalai (see Black gram)	.....	.....
Matting sedge, Indian or Korai	Cyperus corymbosus, C. tegetum.	23. Fibres—others.
Medlar, Indian	Vangueria edulis	38. Fruits and Vegetables including root crops.
Melon, Kharbuja	Cucumis Melo	38. " " "
" Kakri	Cucumis Melo var. momordica.	38. " " "
" Musk	Cucurbita moschata	38. " " "
" Water	Citrullus vulgaris	38. " " "
" White Gourd (see Gourd)	.....	.....
Metha (Fenugreek)	Trigonella fœnum-græcum	18. Condiments and spices.
Millet, Common or Cheena	Panicum miliaceum	10. Other food grains, etc.
" Great or jawar or cholum	Sorghum vulgare	5. Cholum or Jawar.
" Italian, Kangni, or Kaon	Panicum Italicum or Setaria italica	10. Other food grains, etc.
" Kodo or Varagu	Paspalum scrobiculatum	10. " "
" Little, Kutki, or Gondli	Panicum miliare	10. " "
" Marua or Ragi	Elusine Coracana	7. Ragi or marua.
" Spiked, Bajra or Cumbu	Pennisetum typhoideum	6. Cumbu or Bajra.
Mint or Pudina	Mentha arvensis	18. Condiments and spices.
Morinda or Al	Morinda tinctoria	28. Dyes—others.
Moth (see Bean)	.....	.....
Mulberry	Morus indica	40. Miscellaneous non-food crops.
Mung (see Gram)	.....	.....
Mustard	Brassica sp.	14. Rape and Mustard.
Naval (see Plum, black)	.....	.....
Neerali	Gynocordia odorata	16. Oilseeds—others.
Neem tree (see Margosa)	.....	.....
Niger Seed or Sorguja	Guizotia abyssinica	16. Oilseeds—others.
Nutmeg	Myristica fragrans	18. Condiments and spices.
Oats	Avena sativa	37. Fodder crops.
Odamula (reeds)	Ochhalandra Rheedii	40. Miscellaneous non-food crops.
Ól (see Elephant foot)	.....	.....
Onion	Allium Cepa	18. Condiments and spices.
Opium	Papaver somniferum	29. Opium.
Orache, garden (see spinach)	.....	.....
Oranges	Citrus Aurantium	38. Fruits and Vegetables including root crops.
Palm, Date	Phoenix sylvestris	20. Sugar—others.
" Palmyra	Borassus flabellifer	38. " " "
Papay	Carica papaya	38. Fruits and Vegetables including root crops.
Parvar or Patol	Trichosanthes dioica	38. " " "
Peach	Prunus persica	38. " " "
Peas	Pisum sativum or Pisum arvense.	10. Other food grains, etc.
Peanut (see Groundnut)	.....	.....
Pepper	Piper or Capsicum	18. Condiments and spices.
" Black	Piper nigrum	18. " " "
" Long	Piper longum	18. " " "
Pigeon or bottle grass	Setaria glauca	10. Other food grains, etc.
Pigeon pea (see Arhar)	.....	.....
Pimakottai, Pouna (see Mastwood)	.....	.....
Pine apple	Ananas sativa	38. Fruits and Vegetables including root crops.
Plantain	Musa sapientum	38. " " "
Plum, black, Jambó tree or Naval	Eugenia Jambolana	38. " " "
" Hog, or Ampazham	Spondias mangifera	38. " " "
Poi (see Spinach)	.....	.....

## APPENDIX D—continued

## ALPHABETICAL LIST OF CROPS—contd.

NAME OF CROP		Heads of classification in Table III
English or Vernacular	Botanical	
Pomegranate	<i>Punica granatum</i>	38. Fruits and Vegetables including root crops.
Pomelo	<i>Citrus decumana</i>	38. " " "
Ponnagantikura	<i>Alternanthera sessilis</i>	38. " " "
Potato	<i>Solanum tuberosum</i>	38. " " "
" Sweet	<i>Ipomoea Batatas, Batatas edulis.</i>	38. " " "
Pudina ( <i>see</i> Mint)	.....	.....
Puliyavara	<i>Oxalis corniculata</i>	38. Fruits and Vegetables including root crops.
Pumpkin	<i>Cucurbita pepo</i>	38. " " "
Pumpkin Melon ( <i>see</i> Gourd, red)	.....	.....
Radish or Sother	<i>Raphanus sativus</i>	38. Fruits and Vegetables including root crops.
Ragi ( <i>see</i> Millet)	.....	.....
Randhuni ( <i>see</i> Ajmud)	.....	.....
Rapeseed	<i>Brassica sp.</i>	14. Rape and Mustard.
Raspberry	<i>Rubus lasiocarpus</i>	38. Fruits and Vegetables including root crops.
Rhea	<i>Boehmeria nivea</i>	23. Fibres—others.
Rice	<i>Oryza sativa</i>	2. Rice.
Rose apple ( <i>see</i> Apple)	.....	.....
Roselle	<i>Hibiscus subdariffa</i>	38. Fruits and Vegetables including root crops.
Rubber (India)	<i>Hevea brasiliensis, manihot Glaziovii.</i>	40. Miscellaneous non-food crops.
Sabai grass	<i>Ischœmum angustifolium</i>	23. Fibres—others.
Safflower	<i>Carthamus tinctorius</i>	28. Dyes—others.
Saffron	<i>Crocus sativus</i>	28. " " "
Sage	<i>Salvia officinalis</i>	18. Condiments and spices.
Sam tree or Chaplash.	<i>Artocarpus Chaplasha</i>	40. Miscellaneous non-food crops.
Sank-alu	<i>Pachyrhizus angulatus</i>	38. Fruits and Vegetables including root crops.
Sapodilla	<i>Achras Sapota</i>	38. " " "
Sawan ( <i>see</i> Swank)	.....	.....
Sebestan	<i>Cordia myxa</i>	38. Fruits and Vegetables including root crops.
Senna	<i>Cassia angustifolia and C. ovata.</i>	35. Drugs and Narcotics—others.
Sesamum, til or jinjili	<i>Sesamum indicum</i>	13. Sesamum.
Shahjira ( <i>see</i> Caraway, black)	.....	.....
Shama ( <i>see</i> Swank)	.....	.....
Singhara or water caltrop	<i>Trapa bispinosa</i>	38. Fruits and Vegetables including root crops.
Siris tree or vagai	<i>Albizia Lebbek</i>	40. Miscellaneous non-food crops.
Sisal hemp ( <i>see</i> Hemp)	.....	.....
Soapnut or Kumkudu-Kaya	<i>Sapindus trifoliatus</i>	35. Drugs and Narcotics—others.
Sorguja ( <i>see</i> Niger seed)	.....	.....
Sorrell	<i>Rumex vesicarius</i>	38. Fruits and Vegetables including root crops.
Sowa ( <i>see</i> Dill)	.....	.....
Sother ( <i>see</i> Radish)	.....	.....
Soy bean ( <i>see</i> Bean)	.....	.....
Spelt wheat ( <i>see</i> Wheat)	.....	.....
Spinach	<i>Spinacea oleracea</i>	38. Fruits and Vegetables including root crops.
" Indian or poi	<i>Basella alba</i>	38. " " "
" Mountain, or Garden Orache	<i>Atriplex hortensis</i>	38. " " "
Strawberry	<i>Fragaria vesca</i>	38. " " "
Sugarcane	<i>Saccharum officinarum</i>	19. Sugarcane.



## APPENDIX D—concluded

## ALPHABETICAL LIST OF CROPS—concl'd.

NAME OF CROP		Heads of classification in Table III
English or Vernacular	Botanical	
Sunflower	<i>Helianthus Annuus</i>	16. Oilseeds—others.
Swallow-wort	<i>Calotropis sp.</i>	23. Fibres—others.
Swank, Sawan, or Shama	<i>Panicum frumentaceum</i>	10. Other food grains, etc.
Sweet flag	<i>Acorus Calamus</i>	35. Drugs and Narcotics—others.
Sweet potato (see Potato)	.....	.....
Tamarind	<i>Tamarindus indica</i>	18. Condiments and spices.
„ Manila	<i>Pithecolobium dulce</i>	38. Fruits and Vegetables including root crops.
Taramira	<i>Ernea sativa</i>	14. Rape and Mustard.
Tea	<i>Camellia Thea</i>	31. Tea.
Tejpat	<i>Cinnamomum Tamala</i> and <i>C. obtusifolium</i> .	18. Condiments and spices.
Tepari (see Gooseberry)	.....	.....
Thattan-payara (see Barbati)	.....	.....
Thetkè (grass)	<i>Imperata arundinacea</i>	40. Miscellaneous non-food crops.
Til (see Sesamum)	.....	.....
Tobacco	<i>Nicotiana Tabacum</i> and <i>N. Rustica</i> .	32. Tobacco.
Tomato	<i>Lycopersicum esculentum</i>	38. Fruits and Vegetables including root crops.
Tori, Toria	<i>Brassica Napus</i>	14. Rape and Mustard.
Turmeric	<i>Curcuma longa</i>	18. Condiments and spices.
Turnip	<i>Brassica Rapa</i>	38. Fruits and Vegetables including root crops.
Uchhe	<i>Momordica muricata</i>	38. „ „ „
Udai	<i>Acacia eburnea</i>	40. Miscellaneous non-food crops.
Unda	<i>Pongamia glabra</i>	16. Oilseeds—others.
Urad (see Gram)	.....	.....
Varagu (see Millet)	.....	.....
Vagai (see Siris tree)	.....	.....
Vempali (see Kolinji)	.....	.....
Vetch, Field or gawar	<i>Cyamopsis psoralioides</i>	37. Fodder crops.
„ Chickling or khesari	<i>Lathyrus sativus</i>	10. Other food grains, etc.
Water caltrop (see Singhara)	.....	.....
„ melon (see 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 (see Apple)	.....	.....
Wudalu or barti	<i>Panicum flavidum</i>	10. Other food grains, etc.
Yams	<i>Dioscorea sp.</i>	38. Fruits and Vegetables including root crops.
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