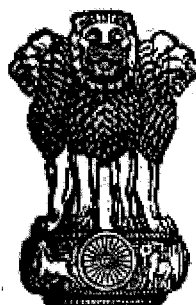


THE NATIONAL SAMPLE SURVEY

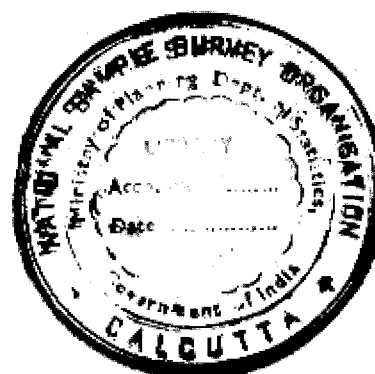
TWENTIETH ROUND
JULY 1965—JUNE 1966

NUMBER 147

SOME RESULTS OF THE LAND UTILISATION SURVEY AND CROP-CUTTING EXPERIMENTS



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Issued by

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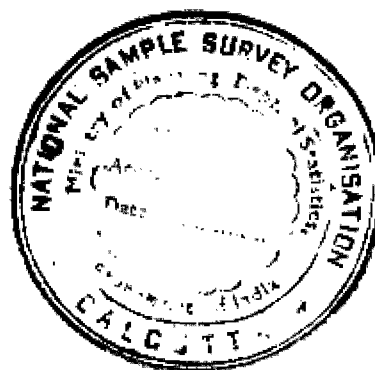
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Supervision of computing was entrusted to S. S. Bose, A. K. Chowdhury and S. K. Palit.

The design of the survey was prepared by the Indian Statistical Institute. The primary data were collected by the Directorate of the National Sample Survey, Government of India, in all the states except West Bengal where the Indian Statistical Institute collected the data.

CONTENTS

	Page
CHAPTER 1 : Introduction	1
CHAPTER 2 : Concepts and Definitions	2
CHAPTER 3 : Summary results	3
CHAPTER 4 : Seasonwise estimates	9
CHAPTER 5 : Statistical tables	11
APPENDIX 1 : Sampling design and estimation procedure	58
APPENDIX 2 : List of strata not included in the tabulation of village summary schedules	61
APPENDIX 3 : Facsimile of Schedule of Investigation	62

NATIONAL SAMPLE SURVEY : 20TH ROUND, JULY 1965—JUNE 1966

Number 147

Some Results of the Land Utilisation Survey and Crop-Cutting Experiments

The report entitled 'Some results of the land utilisation survey and crop-cutting experiments, 20th round, July 1965—June 1966' was prepared by the Indian Statistical Institute, Calcutta. The views contained in the report are not necessarily those of the Government of India.**

CHAPTER I

INTRODUCTION

1.1 The National Sample Survey (NSS) in its 20th round (July 1965—June 1966) continued the collection of data on crop area and yield rate of major cereal crops. For rice, jowar, bajra, ragi, maize, wheat and barley, data on both acreage and yield were collected. In case of small millets, crop-cutting experiments were not planned and data on only area under the crop was collected. The main objective of the survey was to obtain estimates of production of the major cereal crops except small millets at All-India level for the Agricultural Year 1965-66. Besides this, the survey was also planned to obtain estimates of production and gross area of important cereal crops at state level by pooling the estimates obtained from the central and state samples. *In this round, village summary schedules of post card size have been introduced in a sub-sample of villages (selected for crop-cutting) so as to obtain quick preliminary estimates of major cereal crops at All-India level.

1.2 *Period of survey.*—The survey started in July 1965 and ended in June 1966.

1.3 *Geographical coverage.*—The survey was carried out in the whole of rural India excluding Andaman and Nicobar Islands, Laccadive, Minicoy and Amindivi Islands, Ladakh district of Jammu & Kashmir, the North-East Frontier Agency, Nagaland, Lungleh sub-division of Mizo hills in Assam, Mao, Ukhrul and Tamenlong sub-division of Manipur and the Union territories of Goa, Daman, Diu and Pondicherry.

1.4 *Sampling design.*—For the land utilisation survey, a stratified two stage sampling design with 4 independent sub-samples was adopted with villages as first stage units and clusters of plots as second stage units. For crop-cutting, a multistage design was used with villages, clusters of plots, sub-plots growing the specified crops and circular cuts within the selected crop plots of radius 4' as successive sampling units. The work of sub-samples 1 and 3 was assigned to one party of investigators and sub-samples 2 and 4 to another party of investigators. Crop-cutting experiments were planned in sub-samples 1 and 2 only. The details of the sampling design are given in Appendix I.

1.5 *Number of villages planned.*—For the central sample in each of the seasons autumn, winter, spring and summer, 8472 villages were planned to be surveyed for area survey in 4 sub-samples each of 2118 villages. Crop-cutting experiments were planned in each season in sub-sample 1 and 2 only in half the number of villages selected for area survey. Thus crop-cutting experiments were planned in 2118 villages per season in two sub-samples each of 1059 villages. For these 2118 villages, the village summary schedules for area survey and crop-cutting were to be filled up. Crop-cutting experiments were conducted on paddy, jowar, bajra, ragi, maize, wheat and barley in selected sub-plots growing the specified cereal crops in each season. Crop-cutting experiments were not planned for small millets.

1.6 *Method of collection of data.*—Data on land utilisation were collected by direct physical observation of the utilisation in sample plots. The same set of sample plots was surveyed for each of the four seasons. Data on yield were collected by harvesting a circular area of radius 4' located at random in a sub-plot growing the specified crop of the season. The harvesting of crop in a sample cut of radius 4' was done in two stages—first in a circle of radius 2'-3" and then in the annular portion. The yield of crop from the circle of radius 2'-3" from each sample cut was used for driage experiments to obtain the driage factors for getting the production of dry crop.

1.7 *Scope of the report.*—This report deals with the results of the survey on the basis of the data collected in the central sample. The quick preliminary results based on village summary schedules and the results based on the complete material had been sent to the Government for each season as soon as the tabulation for each season was completed. For all the four seasons, the preliminary all-India estimates of areas and yield of major cereal crops were submitted by the second week of August 1966 and those based on complete material, by the second week of October 1966. This report gives the estimates of gross area and production of rice, jowar, bajra, ragi, maize, wheat and barley for all-India and also for some selected states. It also gives an estimate of gross area under small millets. Chapter two gives the concepts and definitions followed in the survey. The main results of the survey and also the preliminary estimates from the village summary schedules are given in Chapter three. The season wise all India estimates of acreage and production are presented in Chapter Four. Some of the statistical tables including the unweighted gross yield rate of crops, and state level estimates of production and gross area for some selected states are given in Chapter five. Appendix II gives the details of the sampling design and estimation procedure. The list of strata not covered by the preliminary estimates is given in Appendix-II. The facsimile of the schedules of investigation forms Appendix-III.

*Since the 8th round of the NSS, some of the State Statistical Bureaus (S.S.B.) have been participating in the work of NSS. The samples allotted to S.S.B's were designated as state sample and those to the Directorate of NSS, the central sample. The central and state samples are selected in the same manner. In each round the same enquiries are conducted in both central and state samples following identical concepts, definitions and procedures. In the 20th round the union territories of Manipur and Tripura and all the states except West Bengal participated on a full matching basis.

**The draft report (No. D 160) was first submitted by the Indian Statistical Institute, Calcutta to the Government of India in March, 1967. It was revised subsequently and resubmitted in July 1968.

CONCEPTS AND DEFINITIONS

2.1 Some of the important concepts and definitions followed in the survey are described below.

2.2 *Sample village.*—A revenue village corresponding to the census village was taken as the sample village for land utilisation survey and crop-cutting experiments. Generally the revenue village and census village were identical, but in some cases the two were not identical. When the selected census village was a part of a revenue village, the whole of the revenue village was surveyed. If on the other hand, the census village was formed by more than one revenue village, one of the revenue villages was chosen with equal probability for the purpose of the survey.

2.3 *Season.*—For each of the crops grown in a village, appropriate season was assigned on the basis of the period of harvesting of the crop in the village in a normal year. The months of harvesting in a normal year corresponding to the different seasons are given below :

season of the crop	normal months of harvesting
(1)	(2)
autumn	August to October
winter	November to January
spring	February to April
summer	May and June

NOTE : July was taken to correspond to summer or autumn depending on the crop and region.

When harvesting of crop in a normal year was spread over two seasons, the crop was assigned to that season which covered the greater part of the harvesting period.

2.4 *Proper time of visit for land utilisation survey and crop-cutting experiments.*—The land utilisation survey was carried out in a village in proper time with respect to cereal and pulse crops for each of the seasons autumn, winter, spring and summer. The proper time for area survey for a season was the period when the sowing of all the crops of that season had been completed but harvesting had not yet started and the crops were unmistakably identifiable. The same set of plots were surveyed for each season. Crop-cutting experiments were carried out when the crop was ripe and ready for harvesting in the selected fields. The sample fields for crop-cutting were selected afresh for each season.

2.5 *Plot.*—For the purpose of the enquiry, a plot was defined as a distinct patch of land generally having a major survey number.

2.6 *Pure crop and mixed crop.*—When only one crop was grown in a patch of land, it was considered as growing a pure crop. A patch of land which was growing two or more crops in intermixture was taken to be under mixed crop. In case of mixed crops, the components might be sown (or harvested) at the same time or at different times. Sometimes the components might be at different stages of growth (e.g. one of the components might be harvestable while others might be just sprouting up from the ground). When a crop was grown in an orchard in between the plants of the orchard it was considered to be under mixed crop. Also crops grown in alternate strips, each of width less than 8' were treated as mixed crops.

2.7 *Sub-plot.*—In a plot, a distinct patch growing a crop of a particular mixed crop was treated as a sub-plot. A plot was considered to have as many sub-plots as there were different patches growing the crops singly or in mixture.

2.8 *Ail or bund.*—A plot is demarcated generally by a strip of raised land commonly known as ails or bunds. Besides these, there may be ails inside the plots. Some of the inside ails will be more or less of a permanent nature having almost the same height as boundary ails. These inside ails were treated in the same manner as boundary ails.

2.9 *Gross area under a crop*—If a patch of land was under a mixed crop, then the total area under the mixed crop was taken to be the gross area under each of the components of the mixed crop. When a crop was grown pure in a patch of land, the gross area under the crop was the same as the area under the crop.

CHAPTER 3

SUMMARY RESULTS

3.1 The estimates of production and gross area for each of the seven crops rice, jowar, bajra, ragi, maize, wheat and barley for the agricultural year 1965-66 at all-India level are given in this chapter. Since for small millets crop-cutting experiments were not planned only estimates of gross area have been obtained. A already stated land utilisation survey was conducted in four sub-samples, with one party of investigators surveying sub-samples 1 and 3, and another party sub-samples 2 and 4. Sub-samples 1 and 3 together formed half-sample 1 and sub-samples 2 and 4, half sample 2. Estimates of gross area are given for each sub-sample as well as half-sample. Crop-cutting experiments were conducted in sub-samples 1 and 2 only. The production estimates for a half sample is obtained on the basis of the acreage estimate from that half-sample and the yield rate from the corresponding sub-sample. For paddy crop the production figures relate to clean rice. To convert production of dry paddy to that of clean rice the factor 0.662 has been used. The sample size in, terms of number of villages surveyed and number of crop-cutting experiments conducted is also given.

3.2 *Number of sample villages surveyed.*—The number of sample villages surveyed for land utilisation survey and number surveyed for crop-cutting experiment are given for each season in Table (3.1) and (3.2) respectively. In table (3.2), the number of villages surveyed in which one or more of the specified crops of the season have been reported in the selected clusters of plots has been shown under "reporting crop" and the others under "not reporting crop".

TABLE (3.1) : *Number of sample villages planned and number of surveyed for land utilisation by seasons and sub-samples.*

(All-India)

number of villages planned per sub-sample per season=2118

season	number of villages surveyed in sub-sample							number planned in 4 sub-samples
	1	2	3	4	1 & 3	2 & 4	1 to 4	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
autumn	2011	1829	1991	1757	4002	3586	7588	8472
winter	2031	2012	2036	1966	4067	3978	8045	8472
spring	2065	1974	2057	1976	4122	3950	8072	8472
summer	2064	1964	2065	1962	4129	3926	8055	8472

TABLE (3.2) : *Number of villages surveyed for crop-cutting experiments by sub-samples for each seasons*

(All-India)

number of villages planned per season per sub-sample=1059

season	number of villages surveyed in sub-sample									number planned in 2 sub- samples					
	1			2			total								
	report- ing crop	not report- ing crop	total	report- ing crop	not report- ing crop	total	report- ing crop	not report- ing crop	total						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)					
autumn	720	275	995	639	217	856	1359	492	1851	2118
winter	725	293	1018	660	297	957	1385	590	1975	2118
spring	588	446	1034	580	399	979	1168	845	2013	2118
summer	82	957	1039	52	911	963	134	1868	2002	2118

3.3 *Number of crop-cutting experiments conducted.*—Table (3.3) gives the number of crop-cutting experiments conducted on each of the seven crop for all the seasons taken together. A total of 34155 crop-cutting experiments had been conducted on all the seven crops taken together.

TABLE (3.3) : *Number of crop-cutting experiments conducted on each of the major cereal crops separately for pure and mixed categories 1965-66.*

(All-India)

crop	sub-sample 1			sub-sample 2			total		
	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1. paddy	5054	297	5351	4578	243	4821	9632	540	10172
2. jowar	878	2303	3181	748	2235	2983	1626	4538	6164
3. bajra	496	1398	1894	560	1172	1732	1056	2570	3626
4. ragi	915	505	1420	728	404	1132	1643	909	2552
5. maize	494	1036	1530	570	944	1514	1064	1980	3044
6. wheat	860	2348	3208	780	2325	3105	1640	4673	6313
7. barley	95	928	1023	101	1160	1261	196	2088	2284
8. total	8792	8815	17607	8065	8483	16548	16857	17298	34155

3.4 *Estimates of production.*—Table (3.4) gives the estimates of production of each of the seven crops in 1965-66 by half-samples. Col. (8) gives the percentage difference which will give some idea about the margin of uncertainty of the estimates.

TABLE (3.4) : *Estimates of production of each of the major cereal crops by half-samples : 1965-66*

(All-India)

crop	number of crop-cutting experiments conducted			production (000 tonnes)			percentage difference*
	sub-sample 1	sub-sample 2	total	half-sample 1	half-sample 2	combined	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. paddy	5351	4821	10172	30507	32182	31344	—5.34
2. jowar	3181	2983	6164	10566	10650	10605	—0.79
3. bajra	1894	1732	3626	4309	4838	4576	—11.56
4. ragi	1420	1132	2552	1377	1420	1398	—3.08
5. maize	1530	1514	3044	5728	6585	6154	—13.93
6. wheat	3208	3105	6313	12475	11675	12074	6.62
7. barley	1023	1261	2284	2438	2644	2542	—7.79
8. total	17607	16548	34155	67400	69994	68693	—3.78

$$* \text{col. (8)} = \frac{\text{col (5)} - \text{col (6)}}{\text{col (7)}} \times 100$$

3.4.1 The production of the seven cereal crops taken together was estimated to be 68.7 million tonnes of which 31.3 million was rice, 12.1 million wheat, 10.6 million jowar, 6.2 million maize, 4.6 million bajra, 2.5 million barley and 1.4 million ragi.

3.5 *Estimates of gross area.*—Table (3.5) gives the estimates of gross area under each of the major cereal crops in 1965-66 by sub-samples, col.(9) gives combined estimates of half sample 1 & 2 in 000 hectares. The figures in col. (1) to (8) are in (000) acres, col. (10) gives the percentage difference to give an idea about the margin of uncertainty of the estimates.

TABLE (3.5) : *Estimates of gross area (000 acres) under each of the major cereal crops by sub-samples in 1965-66 (All-India)*

crop	gross area (000 acres)							gross area (000) hectares	percentage difference*
	sub-sample 1	sub-sample 2	sub-sample 3	sub-sample 4	half-sample 1	half-sample 2	half-sample 1 & 2 combined		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1. paddy	86299	90566	83396	86668	84848	88617	86731	35100	—4.35
2. jowar	84321	51543	56449	59550	52384	55545	53964	21839	—5.86
3. bajra	31612	33096	41058	38844	36333	35969	36151	14630	1.01
4. ragi	6173	7637	6086	7247	6133	7442	6787	2747	—19.29
5. maize	13230	13250	16220	17085	14722	15167	14942	6047	—2.98
6. wheat	39965	43001	39677	35460	39820	39232	39526	15996	1.49
7. barley	9626	9556	8507	9177	9067	9366	9216	3730	3.24
8. sub-total	235226	248649	251393	254031	243307	251338	247317	100089	—3.25
9. small millets	9845	13249	12509	13589	11180	13419	12295	4976	—18.21
10. total	245071	261898	263902	267620	254487	264757	259612	105065	—3.96

$$* \text{col. (10)} = \frac{\text{col(6)} - \text{col(7)}}{\text{col(8)}} \times 100$$

3.5.1 Among the major cereal crops, the maximum of gross area was under rice (86.7 million acres) followed by jowar (54.0 million acres), wheat (39.5 million acres), bajra (36.2 million acres), maize (14.9 million acres), barley (9.2 million acres) and ragi (6.8 million acres). The area under small millets was estimated as 12.3 million acres.

3.6 *Composition of gross area.*—Table (3.6) gives the composition of gross area under each of the major cereal crops at all-India level based on the combined estimate.

TABLE (3.6) : *Composition of gross area under each of the major cereal crops, 1965-66 (based on combined estimate) (All-India)*

crop	estimated gross area (000 acres)	percentage of area under		
		pure crop	mixed crop	total
(1)	(2)	(3)	(4)	(5)
1. paddy	86731	95.32	4.68	100.00
2. jowar	53964	23.26	76.74	100.00
3. bajra	36151	30.02	69.98	100.00
4. ragi	6787	40.71	59.29	100.00
5. maize	14942	48.49	51.51	100.00
6. wheat	39526	36.24	63.76	100.00
7. barley	9216	12.55	87.45	100.00
8. small millets	12295	49.91	50.09	100.00

3.6.1 The proportion of area under pure crop was maximum for rice (more than 95 per cent) and for the remaining crops it varied from 13 per cent (for barley) to about 50 per cent (for small millets)

3.7 Comparison of NSS estimates of production, gross area and weighted gross yield rate for 1964-65 and 1965-66.

3.7.1 Table (3.7) gives the NSS estimates of production and gross yield rate for each of the seven cereal crops rice, jowar, bajra, ragi, maize, wheat and barley for 1964-65 and 1965-66. The gross yield rates are obtained by dividing the production figures by the corresponding gross area, both based on combined sample.

TABLE (3.7) : NSS estimates of production and gross yield rate for each of seven cereal crops for 1964-65 and 1965-66
(All-India)

crop	production (000 tonnes)							gross yield rate (kgm/acre)		percentage difference*
	1964-65			1965-66						
	half-sample 1	half-sample 2	combined	half-sample 1	half-sample 2	combined	percentage difference*	1964-1965	1965-1966	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
1. rice	39940	37888	38913	30507	32182	31344	—19.45	433	361	—16.63
2. jowar	11401	11305	11355	10566	10650	10605	—6.61	216	197	—8.80
3. bajra	3804	4739	4270	4309	4838	4576	7.17	126	127	1.01
4. ragi	2070	1941	2005	1377	1420	1398	—30.27	304	206	—32.24
5. maize	4820	6066	5444	5728	6585	6154	13.04	419	412	—1.67
6. wheat	14683	15302	14992	12475	11675	12074	—19.46	338	305	—9.76
7. barley	3242	2751	2998	2438	2644	2542	—15.21	281	276	—1.78
8. total	79960	79992	79977	67400	69994	68693	—14.11	×	×	×

$$* \text{col. (8)} = \frac{\text{col. (7)} - \text{col. (4)}}{\text{col. (4)}} \times 100$$

$$* \text{col. (11)} = \frac{\text{col. (10)} - \text{col. (9)}}{\text{col. (9)}} \times 100$$

The NSS estimate of production of the seven crops taken together had shown a decrease of about 14 per cent in 1965-66 compared to 1964-65. For each of the crops rice and wheat, the estimated production in 1965-66 was less than the corresponding figure for 1964-65 by about 19 per cent.

3.7.2 Table(3.8) gives the NSS estimates of gross area under each of the eight cereal crops rice, jowar, bajra, ragi, maize, wheat, barley and small millets for 1964-65 and 1965-66.

TABLE (3.8) : NSS estimates of gross area under each of the eight cereal crops for 1964-65 and 1965-66
(All-India)

crop	gross area (000 acres)						per-centage diffe-rence*
	1964-65			1965-66			
	half-sample 1	half-sample 2	com-bined	half-sample 1	half-sample 2	com-bined	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. rice	92566	87162	89865	84848	88617	86731	—3.49
2. jowar	54463	50823	52642	52384	55545	53964	2.51
3. bajra	34048	33958	34002	36333	35869	36151	6.32
4. ragi	6961	6237	6597	6133	7442	6787	2.88
5. maize	12018	13982	12999	14722	15167	14942	14.95
6. wheat	43791	44873	44332	39820	39232	39526	—10.84
7. barley	10906	10426	10666	9067	9366	9216	—13.59
8. sub-total (1 to 7)	254753	247461	251103	243307	251338	247317	—1.51
9. small millets	10287	12223	11265	11180	13410	12295	9.14
10. total (8 & 9)	265040	259684	262368	254487	264757	259612	—1.05

$$* \text{col. (8)} = \frac{\text{col. (7)} - \text{col. (4)}}{\text{col. (4)}} \times 100$$

3.8 *Comparison of NSS and non-NSS (official) estimates of production.*—The NSS and non-NSS (official) estimates of production of each crop in 1964-65 and 1965-66 are given in table (3.9).

TABLE (3.9) : *Comparison of NSS and non-NSS (official) estimates of production.*

(All—India)

crop	(production (000 tonnes))					
	non-NSS (official) estimates (partially revised)*			NSS estimates		
	1964-65	1965-66	percentage difference	1964-65	1965-66	percentage difference
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. rice	39,034	30,655	—21.47	38,913	31,344	—19.45
2. jowar	9749	7527	—22.79	11355	10605	—6.61
3. bajra	4454	3655	—17.94	4270	4576	+7.17
4. ragi	1898	1176	—38.04	2005	1398	—30.27
5. maize	4658	4760	+2.19	5444	6154	+13.04
6. wheat	12290	10424	—15.18	14992	12074	—19.46
7. barley	2523	2377	—5.79	2998	2542	—15.21
8. total	74606	60574	—18.81	79977	68693	—14.11

$$(1) \text{ col. (4) } = \frac{\text{col. (3)} - \text{col. (2)}}{\text{col. (2)}} \times 100; (2) \text{ col. (7) } = \frac{\text{col. (6)} - \text{col. (5)}}{\text{col. (5)}} \times 100$$

*SOURCE : Agricultural Situation in India

According to the NSS figures the production of all the seven cereal crops taken together showed a decrease of about 14% in 1965-66 over the previous year while according to the non-NSS official series the decrease was about 19%.

3.9 *Quick preliminary estimates from village summary schedules.*—The estimates of production and gross area under major cereal crops as obtained from the post card size village summary schedules which were introduced in this round, are presented below. The estimates relate to all the four seasons combined. Table (3.10) gives the number of sample villages analysed and table (3.11) gives the estimates of production and gross area under major cereal crops for the year 1965-66. It may be mentioned that those villages for which the summary schedules were received late were not included for the tabulation. Some strata could not be included for tabulation and a list of such strata is given in appendix II.

TABLE (3.10) : *Number of sample villages planned and number analysed by seasons and sub-samples (village summary schedules)*

(All-India)

Number of villages planned per season per sub-sample=1059

season	number of villages analysed		
	sub-sample 1	sub-sample 2	total
(1)	(2)	(3)	(4)
autumn	995	978	1973
winter	910	921	1831
spring	869	843	1712
summer	780	722	1502

TABLE (3.11) : *Estimates of production and gross area under major cereal crops (based on village summary schedules)*
(All-India)

crop	number of cuts			production (000 tonnes)			gross area (000 acres)		
	sub-sample 1	sub-sample 2	total	sub-sample 1	sub-sample 2	combined	sub-sample 1	sub-sample 2	combined
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1. rice	4517	4548	9065	32641	35153	33894	86185	93211	89698
2. jowar	2025	1841	3866	10155	7938	9045	45533	45715	45622
3. bajra	1398	1339	2737	3886	5174	4530	28356	36732	32541
4. ragi	1085	795	1880	1461	1572	1517	7177	6527	6852
5. maize	1086	1185	2271	5433	6697	6066	13141	14118	13629
6. wheat	2600	2358	4958	12077	12847	12462	39846	41542	40695
7. barley	754	792	1546	2082	2218	2149	7257	8683	7971
8. sub-total	13465	12858	26323	67735	71599	69663	227495	246528	237008
9. small millets	x	x	x	x	x	x	9503	12159	10830
10. total	x	x	x	x	x	x	236998	258687	247838

NOTE : crop-cutting experiments were not planned on small millets.

3.10 Comparison of quick estimates (from summary schedules) and the estimates based on full sample

Table (3.12) gives the estimates of production and gross area under major cereal crops obtained from the detailed schedules and the corresponding estimates obtained from the village summary schedules (post card size).

TABLE (3.12) : *Comparison of estimates of production and gross area under major cereal crops obtained from detailed schedules with the corresponding estimates obtained from post card size village summary schedules, 1965-1966*
(All-India)

crop	estimated production (000 tonnes) from		percentage difference*	estimated gross area (000 acre) from		percentage difference**
	post card schedule	detailed schedule		post card schedule	detailed schedule	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. rice	33,894	31,344	8.14	89,698	86,731	3.42
2. jowar	9,045	10,605	-14.71	45,622	53,964	-15.46
3. bajra	4,530	4,576	-1.00	32,541	36,151	-9.99
4. ragi	1,517	1,398	8.51	6,852	6,787	0.96
5. maize	6,066	6,154	-1.43	13,629	14,942	-8.79
6. wheat	12,462	12,074	3.21	40,695	39,526	2.96
7. barley	2,149	2,542	-15.46	7,971	9,216	-13.51
8. sub-total (1 to 7)	69,663	68,693	1.41	2,37,008	2,47,317	-4.17
9. small millets . . . . .	..	..	..	10,830	12,295	-11.91
10. total (8 & 9) . . . . .	..	..	..	2,47,838	2,59,612	-4.54

$$* \text{col. (4)} = \frac{\text{col. (2)} - \text{col. (3)}}{\text{col. (3)}} \times 100$$

$$** \text{col. (7)} = \frac{\text{col. (5)} - \text{col. (6)}}{\text{col. (6)}} \times 100$$

NOTE.—(1) The village summary schedules (post card size) were planned to be filled up in one fourth of the total villages selected for land utilisation survey.

(2) The estimates from village summary schedule do not cover some strata specified in Appendix 2.

CHAPTER 4

SEASON-WISE ESTIMATES

4.1 The estimates for each crop presented in the earlier chapter was the aggregate for the four seasons—autumn, winter, spring and summer for the agricultural year 1965-66. The data were collected separately for each season and the estimates for each crop were obtained for each of the seasons separately. The season-wise estimates of production and gross area at all-India level are given in this chapter.

4.2 Table (4.1) gives the all-India estimates of production and gross area under each crop for each of the seasons autumn, winter, spring and summer. The season-wise estimates of production and gross area expressed as percentages of the corresponding estimates for all the four seasons together are also given based upon the combined estimates.

TABLE (4.1) : Season-wise estimates of production and gross area under each major cereal crop in 1965-66

season	estimates of						percentage distribution based on combined estimate of	
	production in (000 tonnes)			gross area (000 acres)			production	gross area
	half sample 1	half sample 2	combined	half sample 1	half sample 2	combined		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. rice								
autumn	6,228	6,277	6,253	22,975	23,332	23,154	19.95	26.70
winter	21,862	23,367	22,613	57,008	59,588	58,296	72.14	67.21
spring	1,852	1,857	1,855	3,794	4,294	4,044	5.92	4.66
summer	565	681	623	1,071	1,403	1,237	1.99	1.43
total	30,507	32,182	31,344	84,848	86,617	86,731	100.00	100.00
2. jowar								
autumn	909	1,938	1,421	7,390	7,376	7,383	13.40	13.68
winter	6,146	6,040	6,093	31,344	33,700	32,523	57.46	60.27
spring	3,345	2,566	2,955	13,302	14,242	13,771	27.86	25.52
summer	166	106	136	348	227	287	1.28	0.53
total	10,566	10,650	10,605	52,384	55,545	53,964	100.00	100.00
3. bajra								
autumn	3,544	4,348	3,949	30,863	31,232	31,047	86.30	85.89
winter	690	457	573	5,195	4,590	4,893	12.52	13.53
spring	7	19	13	167	87	127	0.28	0.35
summer	68	14	41	108	60	84	0.90	0.23
total	4,309	4,838	4,576	36,333	35,969	36,151	100.00	100.00
4. ragi								
autumn	551	809	680	2,021	3,045	2,533	48.63	37.32
winter	489	408	448	3,370	3,966	3,668	32.05	54.04
spring	308	170	239	659	349	504	17.10	7.43
summer	29	33	31	83	82	82	2.22	1.21
total	1,377	1,420	1,398	6,133	7,442	6,787	100.00	100.00

TABLE (4.1) contd. : Season-wise estimates of production and gross area under each major cereal crop in 1965-66

season	estimates of						percentage distribution based on combined estimate of	
	production in (000 tonnes)			gross area (000 acres)			production	gross area
	half sample 1	half sample 2	combined	half sample 1	half sample 2	combined		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
5. maize								
autumn	5,640	6,460	6,049	14,397	14,896	14,645	98.30	98.02
winter	14	9	11	77	15	45	0.18	0.30
spring	54	111	82	181	118	150	1.33	1.00
summer	20	5	12	67	138	102	0.19	0.68
total	5,728	6,585	6,154	14,722	15,167	14,942	100.00	100.00
6. wheat								
autumn . . . . .	..	..	..	1	..	1	..	..
winter . . . . .	..	..	..	1	47	24	..	0.06
spring	12,416	11,576	11,995	39,600	38,675	39,137	99.18	99.02
summer	59	99	79	218	510	364	0.82	0.92
total	12,475	11,675	12,074	39,820	39,232	39,526	100.00	100.00
7. barley								
autumn . . . . .	..	..	..	..	..	..	..	..
winter . . . . .	..	..	..	..	..	..	..	..
spring	2,426	2,642	2,535	9,002	9,320	9,161	99.72	99.40
summer	12	2	7	65	46	55	0.28	0.60
total	2,438	2,644	2,542	9,067	9,366	9,216	100.00	100.00
8. seven crops								
autumn	16,872	19,832	18,352	77,647	79,881	78,763	26.72	31.85
winter	29,201	30,281	29,738	96,995	1,01,906	99,449	43.29	40.21
spring	20,408	18,941	19,674	66,705	67,085	66,894	28.64	27.05
summer	919	940	929	1,960	2,466	2,211	1.35	0.89
total	67,400	69,994	68,693	2,43,307	2,51,338	2,47,317	100.00	100.00
9. small millets								
autumn . . . . .	..	..	..	6,335	6,743	6,538	..	53.18
winter . . . . .	..	..	..	4,413	6,325	5,369	..	43.67
spring . . . . .	..	..	..	362	238	298	..	2.42
summer . . . . .	..	..	..	70	1,13	90	..	0.73
total . . . . .	..	..	..	11,180	13,419	12,295	..	100.00

NOTE:—crop-cutting experiments were not planned on small millets.

CHAPTER 5

STATISTICAL TABLES

5.1 Some of statistical tables relating to the survey are given in this Chapter. The number of sample villages planned and number surveyed are given for land utilisation survey as well as crop-cutting experiments by states for each season. The number of crop-cutting experiments conducted on each crop separately for pure and mixed categories are given for each season. The estimates of production and of gross area of each crop for selected states by sub-samples are given in Table (11). Tables (12.1) to (12.7) give the unweighted gross yield rate (kgm/acre) for each of major cereal crops separately for pure and mixed categories at state level. Tables (13.1) to (13.7) give the unweighted gross yield rate (kgm/acre) for each crop under irrigated and non-irrigated categories at state level and ratios of dry weight to green weight of cereal crops by states and sub-samples for each of the seasons are given in Tables (14.1) to (14.4).

5.2 It may be mentioned that the total number of cuts on which the yield rates given in tables (12.1 to 12.7) and (13.1 to 13.7) are based does not tally with those on which the production estimates are based. This is due to the fact that (i) data on irrigation particulars were not available in a few cases and hence they were excluded for calculation of unweighted yield rates for all these tables but those were included for calculation of production estimates and (2) schedules received late from the field were not included for estimating production of crops but they were subsequently included for calculation of unweighted yield rate.

List of Tables

	Page
TABLE 1—Number of sample villages planned and number surveyed for land utilisation survey in each season and state	13
TABLE 2—Number of sample villages planned and number surveyed for crop-cutting experiments for each season by states	14
TABLE 3.1—Number of crop-cutting experiments conducted on paddy grown pure and mixed by seasons and states (sub-sample—1)	15
TABLE 3.2—Number of crop-cutting experiments conducted on paddy grown pure and mixed by seasons and states (sub-sample—2)	16
TABLE 3.3—Number of crop-cutting experiments conducted on paddy grown pure and mixed by seasons and states (sub-samples 1 and 2 combined)	17
TABLE 4.1—Number of crop-cutting experiments conducted on jowar grown pure and mixed by seasons and states (sub-sample—1)	18
TABLE 4.2—Number of crop-cutting experiments conducted on jowar grown pure and mixed by seasons and states (sub-sample—2)	19
TABLE 4.3—Number of crop-cutting experiments conducted on jowar grown pure and mixed by seasons and states (sub-samples 1 and 2 combined)	20
TABLE 5.1—Number of crop-cutting experiments conducted on bajra grown pure and mixed by seasons and states (sub-sample—1)	21
TABLE 5.2—Number of crop-cutting experiments conducted on bajra grown pure and mixed by seasons and states (sub-sample—2)	22
TABLE 5.3—Number of crop-cutting experiments conducted on bajra grown pure and mixed by seasons and states (sub-samples 1 and 2 combined)	23
TABLE 6.1—Number of crop-cutting experiments conducted on ragi grown pure and mixed by seasons and states (sub-sample—1)	24
TABLE 6.2—Number of crop-cutting experiments conducted on ragi grown pure and mixed by seasons and states (sub-sample—2)	25
TABLE 6.3—Number of crop-cutting experiments conducted on ragi grown pure and mixed by seasons and states (sub-samples 1 and 2 combined)	26
TABLE 7.1—Number of crop-cutting experiments conducted on maize grown pure and mixed by seasons and states (sub-sample—1)	27
TABLE 7.2—Number of crop-cutting experiments conducted on maize grown pure and mixed by seasons and states (sub-sample—2)	28
TABLE 7.3—Number of crop-cutting experiments conducted on maize grown pure and mixed by seasons and states (sub-samples 1 and 2 combined)	29
TABLE 8.1—Number of crop-cutting experiments conducted on wheat grown pure and mixed by seasons and states (sub-sample—1)	30
TABLE 8.2—Number of crop-cutting experiments conducted on wheat grown pure and mixed by seasons and states (sub-sample—2)	31
TABLE 8.3—Number of crop-cutting experiments conducted on wheat grown pure and mixed by seasons and states (sub-samples 1 and 2 combined)	32
TABLE 9.1—Number of crop-cutting experiments conducted on barley grown pure and mixed by seasons and states (sub-sample—1)	33
TABLE 9.2—Number of crop-cutting experiments conducted on barley grown pure and mixed by seasons and states (sub-sample—2)	34

	<i>Page</i>
TABLE 9.3—Number of crop-cutting experiments conducted on barley grown pure and mixed by seasons and states (sub-samples 1 and 2 combined)	35
TABLE 10.1—Number of crop-cutting experiments conducted on all crops grown pure and mixed by seasons and states (sub-sample—1)	36
TABLE 10.2—Number of crop-cutting experiments conducted on all crops grown pure and mixed by seasons and states (sub-sample—2)	37
TABLE 10.3—Number of crop-cutting experiments conducted on all crops grown pure and mixed by seasons and states (sub-samples 1 and 2 combined)	38
TABLE 11—Estimates of production (000 tonnes) and gross area (000 acres) of each of the crop for some selected states by sub-samples	39
TABLE 12.1—Unweighted gross yield rate (kgm/acre) for rice grown pure and mixed by states	40
TABLE 12.2—Unweighted gross yield rate (kgm/acre) for jowar grown pure and mixed by states	41
TABLE 12.3—Unweighted gross yield rate (kgm/acre) for bajra grown pure and mixed by states	42
TABLE 12.4—Unweighted gross yield rate (kgm/acre) for ragi grown pure and mixed by states	43
TABLE 12.5—Unweighted gross yield rate (kgm/acre) for maize grown pure and mixed by states	44
TABLE 12.6—Unweighted gross yield rate (kgm/acre) for wheat grown pure and mixed by states	45
TABLE 12.7—Unweighted gross yield rate (kgm/acre) for barley grown pure and mixed by states	46
TABLE 13.1—Unweighted gross yield rate (kgm/acre) for rice grown in irrigated and non-irrigated areas by states	47
TABLE 13.2—Unweighted gross yield rate (kgm/acre) for jowar grown in irrigated and non-irrigated areas by states	48
TABLE 13.3—Unweighted gross yield rate (kgm/acre) for bajra grown in irrigated and non-irrigated areas by states	49
TABLE 13.4—Unweighted gross yield rate (kgm/acre) for ragi grown in irrigated and non-irrigated areas by states	50
TABLE 13.5—Unweighted gross yield rate (kgm/acre) for maize grown in irrigated and non-irrigated areas by states	51
TABLE 13.6—Unweighted gross yield rate (kgm/acre) for wheat grown in irrigated and non-irrigated areas by states	52
TABLE 13.7—Unweighted gross yield rate (kgm/acre) for barley grown in irrigated and non-irrigated areas by states	53
TABLE 14.1—Ratio of dry weight to green weight of each of the seven cereal crops by states and sub-samples for autumn	54
TABLE 14.2—Ratio of dry weight to green weight of each of the seven cereal crops by states and sub-samples for winter	55
TABLE 13.3—Ratio of dry weight to green weight of each of the seven cereal crops by states and sub-samples for spring	56
TABLE 14.4—Ratio of dry weight to green weight of each of the seven cereal crops by states and sub-samples for summer	57

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (1) : Number of sample villages planned and number surveyed for land utilisation survey in each season and state

state	no. of sample villages planned per sub-sample and season	Number of sample villages surveyed for land utilisation survey in the season																			
		autumn					winter					spring					summer				
		s.s. 1	s.s. 2	s.s. 3	s.s. 4	total	s.s. 1	s.s. 2	s.s. 3	s.s. 4	total	s.s. 1	s.s. 2	s.s. 3	s.s. 4	total	s.s. 1	s.s. 2	s.s. 3	s.s. 4	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
Rajasthan	96	92	94	92	94	372	92	92	91	93	368	94	95	95	96	380	95	96	96	96	383
Punjab	90	83	82	74	90	329	89	86	89	89	353	90	90	90	90	360	90	90	89	89	358
Jammu & Kashmir	90	64	..	68	..	132	63	57	66	54	240	73	66	70	68	277	87	62	88	61	298
Delhi	6	6	6	6	6	24	6	6	6	6	24	6	6	6	6	24	6	6	..	6	18
Himachal Pradesh	6	6	6	3	5	20	6	6	6	5	23	6	6	6	5	23	6	6	1	6	19
Uttar Pradesh	264	258	263	260	262	1,043	258	264	264	260	1,046	262	257	263	260	1,042	262	254	261	254	1,031
Madhya Pradesh	180	178	171	175	175	699	176	176	178	176	706	178	160	178	172	688	171	177	175	176	699
Bihar	192	191	186	187	187	751	192	189	186	190	757	192	182	191	182	747	187	165	189	169	710
Orissa	90	75	50	58	35	218	82	79	68	67	296	80	67	84	59	290	84	69	87	66	306
West Bengal	138	120	96	131	94	441	131	125	136	121	513	136	120	131	119	506	134	102	136	106	478
Assam	90	79	77	77	63	296	83	84	89	70	326	83	80	80	73	316	83	88	81	83	335
Manipur	48	47	46	46	45	184	47	46	47	45	185	48	46	47	45	186	48	46	46	46	186
Tripura	48	39	39	41	41	160	40	43	43	44	170	42	44	45	45	176	43	44	45	46	178
Andhra Pradesh	168	165	133	166	107	571	163	162	164	157	646	168	158	166	159	651	167	166	167	163	663
Madras	156	155	130	155	98	538	153	144	155	137	589	155	151	156	146	608	150	150	154	149	603
Kerala	90	89	90	90	90	359	90	90	90	90	360	87	88	88	89	352	90	90	90	90	360
Gujarat	90	89	88	88	89	354	89	90	86	89	354	90	88	89	89	356	88	86	87	88	349
Maharashtra	174	173	170	172	174	689	171	174	171	174	690	173	169	171	173	686	173	168	174	167	682
Mysore	102	102	102	102	102	408	100	99	101	99	399	102	101	101	100	404	100	99	99	101	399
All-India	2,118	2,011	1,829	1,991	1,757	7,588	2,031	2,012	2,036	1,966	8,045	2,065	1,974	2,057	1,976	8,072	2,064	1,964	2,065	1,962	8,055

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (2) : *Number of sample villages planned and surveyed for crop-cutting experiments for each season and states*

state	no. of sample villages planned for each sub-sample and season	Number of sample villages surveyed for crop-cutting experiments in the season.											
		autumn			winter			spring			summer		
		sub sample 1	sub- sample 2	total	sub- sample 1	sub- sample 2	total	sub- sample 1	sub- sample 2	total	sub- sample 1	sub- sample 2	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Rajasthan	48	45	47	92	47	46	93	47	47	94	48	48	96
Punjab	45	40	41	81	44	44	88	45	45	90	45	45	90
Jammu and Kashmir	45	30	..	30	32	29	61	34	34	68	43	32	75
Delhi	3	3	3	6	3	3	6	3	3	6	3	3	6
Himachal Pradesh	3	3	3	6	3	3	6	3	3	6	3	3	6
Uttar Pradesh	132	131	128	259	128	129	257	130	129	259	131	121	252
Madhya Pradesh	90	89	84	173	87	87	174	88	81	169	86	90	176
Bihar	96	95	92	187	96	94	190	96	89	185	96	87	183
Orissa	45	33	20	53	44	43	87	40	35	75	44	35	79
West Bengal	69	59	32	91	65	56	121	70	58	128	67	49	116
Assam	45	37	32	69	45	35	80	45	41	86	44	43	87
Manipur	24	24	12	36	23	18	41	24	22	46	24	22	46
Tripura	24	21	22	43	20	23	43	21	22	23	21	22	43
Andhra Pradesh	84	82	47	129	81	71	152	84	77	161	84	83	167
Madras	78	78	72	150	75	50	125	77	70	147	73	67	140
Kerala	45	44	44	88	45	45	90	44	45	99	45	45	90
Gujarat	45	44	45	89	44	45	89	45	44	99	44	43	87
Maharashtra	87	86	83	169	87	87	174	87	83	170	87	80	167
Mysore	51	51	49	100	49	49	98	51	51	102	51	45	96
All-India	1,059	995	856	1,851	1,018	957	1,975	1,034	979	2,013	1,039	963	2,002

National Sample Survey : 20th Round: July 1965—June 1966

TABLE (3.1) : *Number of crop-cutting experiments conducted on paddy grown pure and mixed by seasons and states*

sub-sample : 1

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	8	..	8	3	1	4	..	..	..	..	..	..	11	1	12
Punjab	42	..	42	..	..	..	..	..	..	..	..	..	42	..	42
Jammu & Kashmir	82	..	82	..	..	..	..	..	..	..	..	..	82	..	82
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh	6	..	6	..	..	..	..	..	..	..	..	..	6	..	6
Uttar Pradesh	284	94	378	259	13	272	..	..	..	..	..	..	543	107	650
Madhya Pradesh	189	12	201	183	3	186	..	..	..	..	..	..	372	15	387
Bihar	91	11	102	479	23	502	..	..	..	..	..	..	570	34	604
Orissa	72	7	79	233	..	233	..	..	..	..	..	..	305	7	312
West Bengal	89	2	91	328	..	328	..	..	..	..	..	..	417	2	419
Assam	34	..	34	217	..	217	..	..	..	..	..	..	251	..	251
Manipur	39	..	39	132	..	132	..	..	..	..	..	..	171	..	171
Tripura	82	4	86	89	..	89	10	..	10	..	..	..	181	4	185
Andhra Pradesh	45	19	64	330	1	331	102	..	102	50	..	50	527	20	547
Madras	163	..	163	193	1	194	251	13	264	59	..	59	666	14	680
Kerala	197	24	221	217	1	218	35	..	35	6	..	6	455	25	480
Gujarat	70	24	94	6	..	6	..	..	..	..	..	..	76	24	100
Maharashtra	193	29	222	47	3	50	..	..	..	..	..	..	240	32	272
Mysore	29	11	40	69	1	70	28	..	28	13	..	13	139	12	151
All-India	1,715	237	1,952	2,785	47	2,832	426	13	439	128	..	128	5,054	297	5,351

National Sample Survey : 20th Round: July 1965—June 1966

TABLE (3.2) : *Number of crop-cutting experiments conducted on paddy grown pure and mixed by seasons and states*

State	sub-sample : 2														
	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	5	1	6	..	..	..	..	..	..	..	..	..	5	1	6
Punjab	53	..	53	..	..	..	..	..	..	..	..	..	53	..	53
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	93	..	..
Delhi	1	..	1	..	..	..	..	..	..	..	..	..	1	..	1
Himachal Pradesh	6	..	6	..	..	..	..	..	..	..	..	..	6	..	6
Uttar Pradesh	284	99	383	263	4	267	..	..	..	..	..	..	547	103	650
Madhya Pradesh	177	21	198	156	1	157	..	..	..	..	..	..	333	22	355
Bihar	53	3	56	463	36	499	..	..	..	..	..	..	516	39	555
Orissa	32	..	32	233	..	233	3	..	3	12	..	12	280	..	280
West Bengal	30	2	32	274	..	274	..	..	..	..	..	..	304	2	306
Assam	66	..	66	168	..	168	..	..	..	..	..	..	234	..	234
Manipur . . . . .	..	..	..	96	..	96	..	..	..	..	..	..	96	..	96
Tripura	88	10	98	108	..	108	12	..	12	6	..	6	214	10	224
Andhra Pradesh	22	2	24	298	2	291	81	..	81	42	..	42	434	4	438
Madras	175	..	175	67	8	75	251	4	255	74	..	74	567	12	579
Kerala	208	6	214	192	1	193	70	..	70	6	..	6	476	7	483
Gujarat	65	17	82	14	..	14	..	..	..	..	..	..	79	17	96
Maharashtra	225	13	238	62	4	66	..	..	..	..	..	..	287	17	304
Mysore	23	5	28	99	4	103	24	..	24	..	..	..	146	9	155
All-India	1,513	179	1,692	2,484	60	2,544	441	4	445	140	..	140	4,578	243	4,821

National Sample Survey : 20th Round: July 1965—June 1966

TABLE (3.3) : *Number of crop-cutting experiments conducted on paddy grown pure and mixed by seasons and states*

sub-samples : 1 and 2 combined

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	13	1	14	3	1	4	..	..	..	..	..	..	16	2	18
Punjab	95	..	95	..	..	..	..	..	..	..	..	..	95	..	95
Jammu & Kashmir	82	..	82	..	..	..	..	..	..	..	..	..	82	..	82
Delhi	1	..	1	..	..	..	..	..	..	..	..	..	1	..	1
Himachal Pradesh	12	..	12	..	..	..	..	..	..	..	..	..	12	..	12
Uttar Pradesh	568	193	761	522	17	539	..	..	..	..	..	..	1,090	210	1,300
Madhya Pradesh	366	33	399	339	4	343	..	..	..	..	..	..	705	37	742
Bihar	144	14	158	942	59	1,001	..	..	..	..	..	..	1,086	73	1,159
Orissa	104	7	111	466	..	466	3	..	3	12	..	12	585	7	592
West Bengal	119	4	123	602	..	602	..	..	..	..	..	..	721	4	725
Assam	100	..	100	385	..	385	..	..	..	..	..	..	485	..	485
Manipur	39	..	39	228	..	228	..	..	..	..	..	..	267	..	267
Tripura	170	14	184	197	..	197	22	..	22	6	..	6	395	14	409
Andhra Pradesh	67	21	88	619	3	622	183	..	183	92	..	92	961	24	985
Madras	338	..	338	260	9	269	502	17	519	133	..	133	1,233	26	1,259
Kerala	405	30	435	409	2	411	105	..	105	12	..	12	931	32	963
Gujarat	135	41	176	20	..	20	..	..	..	..	..	..	155	41	196
Maharashtra	418	42	460	109	7	116	..	..	..	..	..	..	527	49	576
Mysore	52	16	68	168	5	173	52	..	52	13	..	13	285	21	306
All-India	3,228	416	3,644	5,269	107	5,376	867	17	884	268	..	268	9,632	540	1,0172

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (4.1) : *Number of crop-cutting experiments conducted on jowar grown pure and mixed by seasons and states*

sub-sample : 1

states	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	28	28	56	32	68	100	..	..	..	..	..	..	60	96	156
Punjab	4	..	4	..	..	..	..	..	..	..	..	..	4	..	4
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh . . . . .	..	2	2	8	378	386	..	..	..	..	..	..	8	380	388
Madhya Pradesh	2	12	14	16	334	350	..	12	12	..	..	..	18	358	376
Bihar . . . . .	..	2	2	8	6	14	..	..	..	..	..	..	8	8	16
Orissa . . . . .	..	..	..	4	8	12	..	..	..	..	..	..	4	8	12
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	30	110	140	68	81	149	36	50	86	12	..	12	146	241	387
Madras	50	14	64	32	122	154	32	..	32	126	2	128	240	138	378
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	18	18	36	38	42	80	44	..	44	..	..	..	110	60	160
Maharashtra . . . . .	..	20	20	18	476	494	160	222	382	..	..	..	178	718	896
Mysore	16	48	64	10	130	150	74	118	192	12	..	12	112	296	408
All-India	148	254	402	234	1645	1879	346	402	748	150	2	152	878	2303	3181

National Sample Survey : 20th Round: July 1965—June 1966

TABLE (4.2) : Number of crop-cutting experiments conducted on jowar grown pure and mixed by seasons and states

sub-sample : 2

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	16	48	64	26	36	62	..	..	..	..	..	..	42	84	126
Punjab	4	20	24	..	..	..	..	..	..	..	..	..	4	20	24
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh . . . . .	..	..	..	..	362	362	..	..	..	..	..	..	..	362	362
Madhya Pradesh . . . . .	..	18	18	22	369	391	..	..	..	..	..	..	22	387	409
Bihar . . . . .	..	4	4	4	14	18	2	16	18	..	..	..	6	34	40
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	16	32	48	60	94	154	66	34	100	12	..	12	154	160	314
Madras	36	18	54	26	132	158	56	12	68	70	8	78	188	170	358
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	14	4	18	22	40	62	24	2	26	..	..	..	60	46	106
Maharashtra . . . . .	..	36	36	26	478	504	145	171	316	..	..	..	171	685	856
Mysore	46	56	102	3	137	140	52	94	146	..	..	..	101	287	388
All-India	132	236	368	189	1662	1851	345	329	674	82	8	90	748	2235	2983

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (4.3) : *Number of crop-cutting experiments conducted on jowar grown pure and mixed by seasons and states*

sub-samples : 1 & 2 combined															
state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	44	76	120	58	104	162	..	..	..	..	..	..	102	180	282
Punjab	8	20	28	..	..	..	..	..	..	..	..	..	8	20	28
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh . . . . .	..	2	2	8	740	748	..	..	..	..	..	..	8	742	750
Madhya Pradesh	2	30	32	38	703	741	..	12	12	..	..	..	40	745	785
Bihar . . . . .	..	6	6	12	20	32	2	16	18	..	..	..	14	42	56
Orissa . . . . .	..	..	..	4	8	12	..	..	..	..	..	..	4	8	12
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	46	142	188	128	175	303	102	84	186	24	..	24	300	401	701
Madras	86	32	118	58	254	312	88	12	100	196	10	206	428	308	736
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	32	22	54	60	82	142	68	2	70	..	..	..	160	106	266
Maharashtra . . . . .	..	56	56	44	954	998	305	393	698	..	..	..	349	1403	1752
Mysore	62	104	166	13	267	280	126	212	338	12	..	12	213	583	796
All-India	280	490	770	423	3307	3730	691	731	1422	232	10	242	1626	4538	6164

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (5.1) : Number of crop-cutting experiments conducted on bajra grown pure and mixed by seasons and states

state	sub-sample : 1														
	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	56	252	308	..	..	..	..	..	..	..	..	..	56	252	308
Punjab	64	24	88	..	..	..	..	..	..	..	..	..	64	24	88
Jammu & Kashmir	2	6	8	..	..	..	..	..	..	..	..	..	2	6	8
Delhi	2	6	8	..	..	..	..	..	..	..	..	..	2	6	8
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh . . . . .	..	124	124	2	146	148	..	..	..	..	..	..	2	270	272
Madhya Pradesh	84	40	124	..	..	..	..	..	..	..	..	..	8	40	48
Bihar . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	84	102	186	..	22	22	..	..	..	12	..	12	96	124	220
Madras	52	94	146	14	30	44	..	..	..	8	..	8	74	124	198
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	74	168	242	..	2	2	2	..	2	60	..	60	136	170	306
Maharashtra	38	320	358	2	2	4	..	..	..	..	..	..	40	322	362
Mysore	8	50	58	8	10	18	..	..	..	..	..	..	16	60	76
All-India	388	1186	1574	26	212	238	2	..	2	80	..	80	496	1398	1894

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (5.2) : Number of crop-cutting experiments conducted on bajra grown pure and mixed by seasons and states

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	96	218	314	..	..	..	..	..	..	..	..	..	96	218	314
Punjab	50	54	104	..	..	..	..	..	..	..	..	..	50	54	104
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi	14	..	14	..	..	..	..	..	..	..	..	..	14	..	14
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	2	168	170	2	164	166	..	..	..	..	..	..	4	332	336
Madhya Pradesh . . . . .	..	48	52	..	..	..	..	..	..	..	..	..	4	48	52
Bihar . . . . .	..	4	4	..	..	..	..	..	..	..	..	..	..	4	4
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	52	30	82	14	..	14	..	..	..	..	..	..	66	30	96
Madras	54	60	114	14	40	54	..	2	2	..	..	..	68	102	170
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	146	116	262	..	..	..	..	..	..	32	..	32	178	116	294
Maharashtra	66	234	300	2	..	2	..	..	..	..	..	..	68	234	302
Mysore . . . . .	..	14	14	12	20	32	..	..	..	..	..	..	12	34	46
All-India	484	946	1430	44	224	268	..	2	2	32	..	32	560	1172	1732

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (5.3) : Number of crop-cutting experiments conducted on bajra grown pure and mixed by seasons and states

sub-samples : 1 & 2 combined

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	152	470	622	..	..	..	..	..	..	..	..	..	152	470	622
Punjab	114	78	192	..	..	..	..	..	..	..	..	..	114	78	192
Jammu & Kashmir	2	6	8	..	..	..	..	..	..	..	..	..	2	6	8
Delhi	16	6	22	..	..	..	..	..	..	..	..	..	16	6	22
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	2	292	294	4	310	314	..	..	..	..	..	..	6	602	608
Madhya Pradesh	12	88	100	..	..	..	..	..	..	..	..	..	12	88	100
Bihar . . . . .	..	4	4	..	..	..	..	..	..	..	..	..	..	4	4
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	136	132	268	14	22	36	..	..	..	12	..	12	162	154	316
Madras	106	154	260	28	70	98	..	2	2	8	..	8	142	226	368
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	220	284	504	..	2	2	2	..	2	92	..	92	314	286	600
Maharashtra	104	554	658	4	2	6	..	..	..	..	..	..	108	556	664
Mysore	8	64	72	20	30	50	..	..	..	..	..	..	28	94	122
All-India	872	2132	3004	70	436	506	2	2	4	112	..	112	1056	2570	3626

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (6.1) : *Number of crop-cutting experiments conducted on ragi grown pure and mixed by seasons and states*

state	sub-sample : 1														
	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Punjab . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	21	117	138	..	..	..	..	..	..	..	..	..	21	117	138
Madhya Pradesh . . . . .	..	..	..	12	..	12	..	..	..	..	..	..	12	..	12
Bihar	94	55	149	1	..	1	..	..	..	..	..	..	95	55	150
Orissa	44	4	48	22	4	26	..	..	..	..	..	..	66	8	74
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	54	26	80	..	21	21	118	48	166	10	..	10	182	95	277
Madras	174	14	188	19	29	48	132	6	138	8	2	10	333	51	384
Kerala . . . . .	..	2	2	..	..	..	..	..	..	..	..	..	..	2	2
Gujarat . . . . .	..	..	..	26	..	26	..	..	..	..	..	..	26	..	26
Maharashtra	6	4	10	22	7	29	..	..	..	..	..	..	28	11	39
Mysore	46	38	84	16	122	138	56	6	62	34	..	34	152	166	318
All-India	439	260	699	118	183	301	306	60	366	52	2	54	915	505	1420

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (6.2) : Number of crop-cutting experiments conducted on ragi grown pure and mixed by seasons and states

sub-sample: 2

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Punjab . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	10	68	78	..	..	..	..	..	..	..	..	..	10	68	78
Madhya Pradesh . . . . .	..	2	2	..	..	..	..	..	..	..	..	..	..	2	2
Bihar	110	40	150	..	2	2	..	..	..	..	..	..	110	42	152
Orissa	18	..	18	12	2	14	..	..	..	..	..	..	30	2	32
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	46	4	50	6	8	14	126	2	128	..	..	..	178	14	192
Madras	108	20	128	16	52	68	122	16	138	16	..	16	262	88	350
Kerala . . . . .	..	2	2	..	..	..	..	..	..	..	..	..	..	2	2
Gujarat	2	..	2	20	..	20	..	..	..	..	..	..	22	..	22
Maharashtra	2	..	2	22	4	26	..	..	..	..	..	..	24	4	28
Mysore	30	26	56	8	148	156	46	4	50	8	4	12	92	182	274
All-India	326	162	488	84	216	300	294	22	316	24	4	28	728	404	1,132

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (6.3) : Number of crop-cutting experiments conducted on ragi grown pure and mixed by seasons and states

sub-samples : 1 & 2 combined

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Punjab . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	31	185	216	..	..	..	..	..	..	..	..	..	31	185	216
Madhya Pradesh . . . . .	..	2	2	12	..	12	..	..	..	..	..	..	12	2	14
Bihar	204	95	299	1	2	3	..	..	..	..	..	..	205	97	302
Orissa	62	4	66	34	6	40	..	..	..	..	..	..	96	10	106
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	100	30	130	6	29	35	244	50	294	10	..	10	360	109	469
Madras	282	34	316	35	81	116	254	22	276	24	2	26	595	139	734
Kerala . . . . .	..	4	4	..	..	..	..	..	..	..	..	..	..	4	4
Gujarat	2	..	2	46	..	46	..	..	..	..	..	..	48	..	48
Maharashtra	8	4	12	44	11	55	..	..	..	..	..	..	52	15	67
Mysore	76	64	140	24	270	294	102	10	112	42	4	46	244	348	592
All-India	765	422	1,187	202	399	601	600	82	682	76	6	82	1,643	909	2,552

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (7.1) : Number of crop-cutting experiments conducted on maize grown pure and mixed by seasons and states

state	sub-sample : 1														
	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	34	130	164	..	..	..	..	..	..	6	..	6	40	130	170
Punjab	82	26	108	..	..	..	..	..	..	..	..	..	82	26	108
Jammu & Kashmir	80	20	100	..	..	..	..	..	..	..	..	..	80	20	100
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	44	270	314	..	..	..	..	..	..	..	..	..	44	270	314
Madhya Pradesh	82	142	224	..	..	..	..	..	..	..	..	..	82	142	224
Bihar	74	370	444	..	..	..	..	..	..	12	..	12	86	370	456
Orissa	16	..	16	..	..	..	..	..	..	..	..	..	16	..	16
West Bengal	18	2	20	..	..	..	..	..	..	..	..	..	18	2	20
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	14	22	36	..	..	..	..	..	..	..	..	..	14	22	36
Madras	2	6	8	..	..	..	..	..	..	..	..	..	2	6	8
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	16	18	34	..	..	..	..	..	..	..	..	..	16	18	34
Maharashtra	2	..	2	..	..	..	..	4	4	2	..	2	4	4	8
Mysore	6	14	20	..	..	..	4	12	16	..	..	..	10	26	36
All-India	470	1,020	1,490	..	..	..	4	16	20	20	..	20	494	1,036	1,530

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (7.2) : *Number of crop-cutting experiments conducted on maize grown pure and mixed by seasons and states*

sub-sample : 2

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	52	106	158	..	..	..	..	..	..	..	..	..	52	106	158
Punjab	176	6	182	..	..	..	..	..	..	..	..	..	176	6	182
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh	20	2	22	..	..	..	..	..	..	..	..	..	20	2	22
Uttar Pradesh	40	302	342	..	..	..	..	..	..	..	..	..	40	302	342
Madhya Pradesh	94	202	296	..	..	..	..	..	..	..	..	..	94	202	296
Bihar	118	288	406	..	..	..	..	..	..	8	4	12	126	292	418
Orissa	6	..	6	..	..	..	..	..	..	..	..	..	6	..	6
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	4	..	4	..	..	..	22	..	22	..	..	..	26	..	26
Madras . . . . .	..	6	6	..	..	..	..	..	..	..	..	..	..	6	6
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	18	12	30	..	..	..	6	..	6	..	..	..	24	12	36
Maharashtra . . . . .	..	4	4	2	..	2	4	..	4	..	..	..	6	4	10
Mysore . . . . .	..	12	12	..	..	..	..	..	..	..	..	..	..	12	12
All-India	528	940	1,468	2	..	2	32	..	32	8	4	12	570	944	1,514

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (7.3) : Number of crop-cutting experiments conducted on maize grown pure and mixed by seasons and states

sub-samples : 1 and 2 combined

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	86	236	322	..	..	..	..	..	..	..	..	6	92	236	378
Punjab	258	32	290	..	..	..	..	..	..	..	..	..	258	32	290
Jammu & Kashmir	80	20	100	..	..	..	..	..	..	..	..	..	80	20	100
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh	20	2	22	..	..	..	..	..	..	..	..	..	20	2	22
Uttar Pradesh	84	572	656	..	..	..	..	..	..	..	..	..	84	572	656
Madhya Pradesh	176	344	520	..	..	..	..	..	..	..	..	..	176	344	520
Bihar	192	658	850	..	..	..	..	..	..	20	4	24	212	662	874
Orissa	22	..	22	..	..	..	..	..	..	..	..	..	22	..	22
West Bengal	18	2	20	..	..	..	..	..	..	..	..	..	18	2	20
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	18	22	40	..	..	..	22	..	22	..	..	..	40	22	62
Madras	2	12	14	..	..	..	..	..	..	..	..	..	2	12	14
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	34	30	64	..	..	..	6	..	6	..	..	..	40	30	7
Maharashtra	2	4	6	2	..	2	4	4	8	2	..	2	10	8	..
Mysore	6	26	32	..	..	..	4	12	16	..	..	..	10	38	48
All—India	998	1,960	2,958	2	..	2	36	16	52	28	4	32	1,064	1,980	3,044

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (8.1) : *Number of crop-cutting experiments conducted on wheat grown pure and mixed by seasons and states*

sub-sample : 1																
state	autumn			winter			spring			summer			all seasons			
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
Rajasthan	64	202	266	..	..	..	64	202	266	
Punjab	162	152	314	..	..	..	162	152	314	
Jammu & Kashmir	30	8	38	32	..	32	62	8	70	
Delhi	15	4	19	..	..	..	15	4	19	
Himachal Pradesh	12	..	12	..	..	..	12	..	12	
Uttar Pradesh	55	1136	1191	18	..	18	73	1136	1209	
Madhya Pradesh	107	320	427	..	..	..	107	320	427	
Bihar	69	346	415	..	..	..	69	346	415	
Orissa	
West Bengal	11	14	25	..	..	..	11	14	25	
Assam	
Manipur	
Tripura	
Andhra Pradesh	8	6	14	..	..	..	8	6	14	
Madras	
Kerala	
Gujarat	122	14	136	..	..	..	122	14	135	
Maharashtra	151	120	271	..	..	..	151	120	271	
Mysore	4	26	30	..	..	..	4	26	30	
All—India	810	2348	3158	50	..	50	860	2348	3208	

National Sample Survey: 20th Round : July 1965—June 1966

TABLE (8.2) : Number of crop-cutting experiments conducted on wheat grown pure and mixed by seasons and states

sub-sample : 2

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	52	192	244	..	..	..	52	192	244
Punjab	136	188	324	..	..	..	136	188	324
Jammu & Kashmir	22	2	24	17	..	17	39	2	41
Delhi	6	10	16	..	..	..	6	10	16
Himachal Pradesh	12	8	20	..	..	..	12	8	20
Uttar Pradesh	51	1028	1079	19	14	33	70	1042	1112
Madhya Pradesh	102	295	397	..	..	..	102	295	397
Bihar	34	374	408	..	..	..	34	374	408
Orissa
West Bengal	8	14	22	..	..	..	8	14	22
Assam
Manipur
Tripura
Andhra Pradesh	2	2	4	..	..	..	2	2	4
Madras	1	..	1	6	..	6	..	..	..	7	..	7
Kerala
Gujarat	134	39	173	..	..	..	134	39	173
Maharashtra	174	111	285	..	..	..	174	111	285
Mysore	4	48	52	..	..	..	4	48	52
All—India	1	..	1	743	2311	3054	36	14	50	780	2325	3105

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (8.3) : *Number of crop-cutting experiments conducted on wheat grown pure and mixed by seasons and states*

Sub-samples: 1 & 2 combined

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	116	394	510	..	..	..	116	394	510
Punjab	298	340	638	..	..	..	298	340	638
Jammu & Kashmir	52	10	62	49	..	49	101	10	111
Delhi	21	14	35	..	..	..	21	14	35
Himachal Pradesh	24	8	32	..	..	..	24	8	32
Uttar Pradesh	106	2164	2270	37	14	51	143	2178	2321
Madhya Pradesh	209	615	824	..	..	..	209	615	824
Bihar	103	720	823	..	..	..	103	720	823
Orissa
West Bengal	19	28	47	..	..	..	19	28	47
Assam
Manipur
Tripura
Andhra Pradesh	10	8	18	..	..	..	10	8	18
Madras	1	..	1	6	..	6	..	..	..	7	..	7
Kerala
Gujarat	256	53	309	..	..	..	256	53	309
Maharashtra	325	231	556	..	..	..	325	231	556
Mysore	8	74	82	..	..	..	8	74	82
All—India	1	..	1	1553	4659	6212	86	14	100	1640	4673	6313

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (9.1) : *Number of crop-cutting experiments conducted on barley grown pure and mixed by seasons and states*

sub-sample : 1

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	28	138	166	..	..	..	28	138	166
Punjab	8	4	12	..	..	..	8	4	12
Jammu & Kashmir	2	..	2	..	..	..	2	..	2
Delhi	1	..	1	..	..	..	1	..	1
Himachal Pradesh
Uttar Pradesh	17	540	557	3	..	3	20	540	560
Madhya Pradesh	2	16	18	..	..	..	2	16	18
Bihar	26	208	234	..	..	..	26	208	234
Orissa
West Bengal	8	22	30	..	..	..	8	22	30
Assam
Manipur
Tripura
Andhra Pradesh
Madras
Kerala
Gujarat
Maharashtra
Mysore
All—India	92	928	1020	3	..	3	95	928	1023

National Sample Survey: 20th Round : July 1965—June 1966

TABLE (9.2) : *Number of crop-cutting experiments conducted on barley grown pure and mixed by seasons and states*

sub-sample : 2

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	36	132	168	..	..	..	36	132	168
Punjab	5	28	33	..	..	..	5	28	33
Jammu & Kashmir	1	..	1	..	..	..	1	..	1
Delhi	1	12	13	..	..	..	1	12	13
Himachal Pradesh	2	..	2	..	..	..	2	..	2
Uttar Pradesh	13	606	619	3	2	5	16	608	624
Madhya Pradesh	6	70	76	..	..	..	6	70	76
Bihar	22	280	302	..	..	..	22	280	302
Orissa
West Bengal	10	28	38	..	..	..	10	28	38
Assam
Manipur
Tripura
Andhra Pradesh
Madras
Kerala
Gujarat	1	2	3	..	..	..	1	2	3
Maharashtra	1	..	1	..	..	..	1	..	1
Mysore
All—India	98	1158	1256	3	2	5	101	1160	1261

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (9.3) : Number of crop-cutting experiments conducted on barley grown pure and mixed by seasons and states

sub-samples : 1 and 2 combined

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	64	270	334	..	..	..	64	270	334
Punjab	13	32	45	..	..	..	13	32	45
Jammu & Kashmir	3	..	3	..	..	..	3	..	3
Delhi	2	12	14	..	..	..	2	12	14
Himachal Pradesh	2	..	2	..	..	..	2	..	2
Uttar Pradesh	30	1146	1176	6	2	8	36	1148	1184
Madhya Pradesh	8	86	94	..	..	..	8	86	94
Bihar	48	488	536	..	..	..	48	488	536
Orissa
West Bengal	18	50	68	..	..	..	18	50	68
Assam
Manipur
Tripura
Andhra Pradesh
Madras
Kerala
Gujarat	1	2	3	..	..	..	1	2	3
Maharashtra	1	..	1	..	..	..	1	..	1
Mysore
All—India	190	2086	2276	6	2	8	196	2088	2284

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (10.1) : *Number of crop-cutting experiments conducted on all crops grown pure and mixed by seasons and states*

sub-sample : 1

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	126	410	536	35	69	104	92	340	432	..	..	6	259	819	1,078
Punjab	192	50	242	..	..	..	170	156	326	..	..	..	362	206	568
Jammu & Kashmir	164	26	190	..	..	..	32	8	40	32	..	32	228	34	262
Delhi	2	6	8	..	..	..	16	4	20	..	..	..	18	10	28
Himachal Pradesh	6	..	6	..	..	..	12	..	12	..	..	..	18	..	18
Uttar Pradesh	349	607	956	269	537	806	72	1,676	1,748	21	..	21	711	2,820	3,531
Madhya Pradesh	281	206	487	211	337	548	109	348	457	..	..	..	601	891	1,492
Bihar	259	438	697	488	29	517	95	554	649	12	..	12	854	1,021	1,875
Orissa	132	11	143	259	12	271	..	..	..	..	..	..	391	23	414
West Bengal	107	4	111	328	..	328	19	36	55	..	..	..	454	40	494
Assam	34	..	34	217	..	217	..	..	..	..	..	..	251	..	251
Manipur	39	..	39	132	..	132	..	..	..	..	..	..	171	..	171
Tripura	82	4	86	89	..	89	10	..	10	..	..	..	181	4	185
Andhra Pradesh	227	279	506	398	125	523	264	104	368	84	..	84	973	508	1,481
Madras	441	128	569	258	182	440	415	19	434	201	4	205	1,315	333	1,648
Kerala	197	26	223	217	1	218	35	..	35	..	..	6	455	27	482
Gujarat	178	228	406	70	44	114	168	14	182	60	..	60	476	286	762
Maharashtra	239	373	612	89	488	577	311	346	657	2	..	2	641	1207	1,848
Mysore	105	161	266	103	263	366	166	162	328	59	..	59	433	586	1,019
All—India	3,160	2,957	6,117	3,163	2,087	5,250	1,986	3,767	5,753	483	4	487	8,792	8,815	17,607

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (10.2) : Number of crop-cutting experiments conducted on all crops grown pure and mixed by seasons and states

sub-sample : 2

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	169	373	542	26	36	62	88	324	412	..	..	..	283	733	1,016
Punjab	283	80	363	..	..	..	141	216	357	..	..	..	424	296	720
Jammu & Kashmir . . . . .	..	..	..	..	..	..	23	2	25	17	..	17	40	2	42
Delhi	15	..	15	..	..	..	7	22	29	..	..	..	22	22	44
Himachal Pradesh	26	2	28	..	..	..	14	8	22	..	..	..	40	10	50
Uttar Pradesh	336	637	973	265	530	795	64	1634	1,698	22	16	38	687	2,817	3,504
Madhya Pradesh	275	291	566	178	370	548	108	365	473	..	..	..	561	1,026	1,587
Bihar	281	339	620	467	52	519	58	670	728	8	4	12	814	1065	1,879
Orissa	56	..	56	245	2	247	3	..	3	12	..	12	316	2	318
West Bengal	30	2	32	274	..	274	18	42	60	..	..	..	322	44	366
Assam	66	..	66	168	..	168	..	..	..	..	..	..	234	..	234
Manipur . . . . .	..	..	..	96	..	96	..	..	..	..	..	..	96	..	96
Tripura	88	10	98	108	..	108	12	..	12	6	..	6	214	10	224
Andhra Pradesh	140	68	208	369	104	473	297	38	335	54	..	54	860	210	1,070
Madras	373	104	477	124	232	356	435	34	469	160	8	168	1,092	378	1,470
Kerala	208	8	216	192	1	193	70	..	70	6	..	6	476	9	485
Gujarat	245	149	394	56	40	96	165	43	208	32	..	32	498	232	730
Maharashtra	293	287	580	114	486	600	324	282	606	..	..	..	731	1,055	1,786
Mysore	99	113	212	122	309	431	126	146	272	8	4	12	355	572	927
All India	2,983	2,463	5,446	2,804	2,162	4,966	1,953	3,826	5,779	325	32	357	8,065	8,483	16,548

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (10.3) : Number of crop-cutting experiments conducted on all crops grown pure and mixed by seasons and states

sub-samples : 1 & 2 combined

state	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	295	783	1,078	61	105	166	180	664	844	6	..	6	542	1,552	2,094
Punjab	475	130	605	..	..	..	311	372	683	..	..	..	786	502	1,288
Jammu & Kashmir	164	26	190	..	..	..	55	10	65	49	..	49	268	36	304
Delhi	17	6	23	..	..	..	23	26	49	..	..	..	40	32	72
Himachal Pradesh	32	2	34	..	..	..	26	8	34	..	..	..	58	10	68
Uttar Pradesh	685	1,244	1,929	534	1,067	1,601	136	3,310	3,446	43	16	59	1,398	5,637	7,035
Madhya Pradesh	556	497	1,053	389	707	1,096	217	713	930	..	..	..	1,162	1,917	3,079
Bihar	540	777	1,317	955	81	1,036	153	1,224	1,377	20	4	24	1,668	2,086	3,754
Orissa	188	11	199	504	14	518	3	..	3	12	..	12	707	25	732
West Bengal	137	6	143	602	..	602	37	78	115	..	..	..	776	84	860
Assam	100	..	100	385	..	385	..	..	..	..	..	..	485	..	485
Manipur	39	..	39	228	..	228	..	..	..	..	..	..	267	..	267
Tripura	170	14	184	197	..	197	22	..	22	6	..	6	395	14	409
Andhra Pradesh	367	347	714	767	229	996	561	142	703	138	..	138	1,833	718	2,551
Madras	814	232	1,046	382	414	796	850	53	903	361	12	373	2,407	711	3,118
Kerala	405	34	439	409	2	411	105	..	105	12	..	12	931	36	967
Gujarat	423	377	800	126	84	210	333	57	390	92	..	92	974	518	1,492
Maharashtra	532	660	1,192	203	974	1,177	635	628	1,263	2	..	2	1,372	2,262	3,634
Mysore	204	274	478	225	572	797	292	308	600	67	4	71	788	1,158	1,946
All—India	6,143	5,420	11,563	5,967	4,249	10,216	3,939	7,593	11,532	808	36	844	16,857	17,298	34,155

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (II) : Estimates of production (000 tonnes) and gross area (000 acres) under selected crops in selected states by sub-samples 1965-66

state	production (000 tonnes)			gross area (000 acres)						
	half-sample 1	half-sample 2	combined	sub-sample 1	sub-sample 2	sub-sample 3	sub-sample 4	half-sample 1	half-sample 2	combined
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. rice										
Uttar Pradesh	2,056	2,801	2,428	9,405	11,542	10,931	10,730	10,168	11,135	10,652
Madhya Pradesh	1,977	1,575	1,775	10,636	11,237	11,573	8,906	11,105	10,067	10,585
Bihar	4,922	5,285	5,104	14,866	13,735	13,365	16,123	14,116	14,930	14,523
Orissa	2,654	3,003	2,828	8,644	9,948	5,581	6,240	7,113	8,094	7,604
West Bengal	4,210	3,566	3,888	9,489	8,362	9,914	8,127	9,702	8,244	8,973
Assam	2,113	2,199	2,156	5,424	4,512	4,267	5,814	4,845	6,163	5,003
Andhra Pradesh	4,674	5,722	5,198	8,863	10,133	8,592	9,874	8,728	10,003	9,365
Madras	3,265	3,057	3,161	6,209	7,603	7,028	7,129	6,620	7,366	6,994
Kerala	1,041	771	907	1,926	1,712	1,900	1,432	1,913	1,572	1,742
Maharashtra	962	1,138	1,050	3,180	3,479	2,607	4,047	2,893	3,763	3,328
2. jowar										
Andhra Pradesh	1,330	2,294	1,813	6,053	9,498	98,08	8,223	7,929	8,860	8,395
Madras	405	403	403	1,774	1,831	3,041	2,384	2,408	2,108	2,259
Gujarat	706	511	607	1,333	1,797	2,143	2,170	1,738	1,983	1,861
Maharashtra	4,109	3,854	3,981	18,347	17,356	18,479	20,133	18,413	18,746	18,579
3. bajra										
Rajasthan	661	1,013	836	10,519	11,458	14,523	19,231	12,521	15,342	13,932
4. ragi										
Mysore	199	311	255	2,190	2,932	2,477	3,254	2,334	3,093	2,714
5. maize										
Jammu & Kashmir	117	117	117	403	433	462	433	433	433	433
Bihar	721	939	829	1,788	2,180	2,072	2,862	1,930	2,521	2,225
6. wheat										
Punjab	2,695	2,744	2,720	6,699	7,433	7,404	5,908	7,051	6,671	6,861
Uttar Pradesh	4,492	4,341	4,417	15,470	14,776	14,914	13,781	15,192	14,279	14,735
Madhya Pradesh	1,752	1,780	1,766	8,079	9,605	7,342	6,597	7,710	8,101	7,906
Gujarat	650	736	693	1,142	1,267	1,251	889	1,197	1,078	1,138
7. barley										
Uttar Pradesh	1,315	1,501	1,408	6,595	5,453	5,425	5,838	6,010	5,645	5,827

N.B. :—(1) half-sample 1 = sub-sample 1 and 3 combined.
half-sample 2 = sub-sample 2 and 4 combined.

(2) Production figures for rice relate to clean rice.

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (12.1) : *Unweighted gross yield rate (kgm/acre) of rice grown pure or mixed by states*

state	unweighted yield rate in kilograms per acre of gross area																	
	pure						mixed						combined					
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined	
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rates
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan	11	73	5	32	16	60	1	0	1	9	2	4	12	67	6	28	18	54
Punjab	42	316	53	334	95	326	..	..	..	..	..	..	42	316	53	334	95	326
Jammu & Kashmir	82	385	93	627	175	514	..	..	..	..	..	..	82	385	93	627	175	514
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh	6	424	..	..	6	424	..	..	..	..	..	..	6	424	..	..	6	424
Uttar Pradesh	543	222	547	218	1,090	220	107	191	103	164	210	178	650	217	650	210	1,300	214
Madhya Pradesh	372	149	333	156	705	152	15	93	22	109	37	103	387	147	355	153	742	150
Bihar	570	318	516	341	1,086	329	34	308	39	354	73	333	604	318	555	343	1,159	330
Orissa	305	359	280	353	585	356	7	254	..	..	7	254	312	357	280	353	592	355
West Bengal	417	420	304	440	721	428	2	168	2	362	4	265	419	418	306	440	725	527
Assam	251	467	234	425	485	447	..	..	..	..	..	..	251	467	234	425	485	447
Manipur	171	592	96	641	267	610	..	..	..	..	..	..	171	592	96	641	267	610
Tripura	181	393	214	406	395	400	4	252	10	371	14	337	185	390	224	404	409	398
Andhra Pradesh	527	522	434	502	961	513	20	269	4	673	24	336	547	513	438	503	985	509
Madras	666	514	561	522	1,227	518	14	716	6	268	20	582	680	518	567	520	1247	519
Kerala	455	483	476	456	931	469	25	300	7	283	32	296	480	474	483	453	963	463
Gujarat	76	295	79	248	155	271	24	160	17	62	41	119	100	263	96	214	196	239
Maharashtra	240	311	287	256	527	281	32	144	17	83	49	123	272	291	304	247	576	268
Mysore	139	436	158	406	297	420	12	60	9	226	21	131	151	406	167	397	318	401
ALL-INDIA	5,054	391	4,670	383	9,724	387	297	227	237	204	534	217	5,351	382	4,907	375	10,258	379

NOTE : The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1965 — June 1966

TABLE (12.2) : Unweighted gross yield rate (kgm/acre) of jowar grown pure or mixed by states

state	unweighted yield rate in kilograms per acre																	
	pure						mixed						combined					
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined	
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan	60	62	42	34	102	50	96	72	84	116	180	93	156	68	126	88	282	77
Punjab	4	53	4	120	8	86	..	..	20	69	20	69	4	53	24	77	28	74
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	8	72	..	..	8	72	380	153	362	136	742	145	388	151	362	136	750	144
Madhya Pradesh	18	283	24	182	42	225	358	195	403	263	761	231	376	199	427	259	803	231
Bihar	8	342	4	128	12	271	8	77	18	115	26	103	16	210	22	117	38	156
Orissa	4	634	..	..	4	634	8	164	..	..	8	164	12	320	..	..	12	320
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	146	165	156	211	302	189	241	173	158	214	399	189	387	170	314	212	701	189
Madras	240	374	194	421	434	395	138	80	176	83	314	82	378	267	370	260	748	264
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	100	504	60	277	160	419	60	295	46	197	106	252	160	426	106	242	266	353
Maharashtra	178	253	171	237	349	245	718	220	685	237	1,403	228	896	227	856	237	1,752	232
Mysore	112	150	101	88	213	121	296	227	287	115	583	172	408	206	388	108	796	158
All-India	878	274	756	248	1,634	262	2,303	188	2,239	188	4,542	188	3,181	212	2,995	203	6,176	208

NOTE : The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (12.3) : Unweighted gross yield rate (kgm/acre) of bajra grown pure or mixed by states

state	unweighted yield rate in kilograms per acre of gross area																			
	pure						mixed						combined							
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined			
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
Rajasthan	56	69	96	117	152	99	252	68	218	85	470	76	308	68	314	95	622	82		
Punjab	64	180	50	237	114	205	24	185	54	94	78	122	88	181	104	164	192	171		
Jammu & Kashmir	2	66	..	..	2	66	6	38	..	..	6	38	8	45	..	..	8	45
Delhi	2	36	..	..	2	36	6	321	..	..	6	321	8	250	..	..	8	250
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	2	456	4	280	6	339	270	193	332	217	602	206	272	194	336	218	638	207		
Madhya Pradesh	8	29	4	161	12	73	40	276	48	192	88	230	48	235	52	190	100	212		
Bihar . . . . .	..	..	..	..	..	..	..	..	4	108	4	108	..	..	4	108	4	108
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	96	249	66	168	162	216	124	96	30	207	154	118	220	164	96	180	316	169		
Madras	74	310	68	325	142	317	124	77	102	112	226	93	198	164	170	197	368	179		
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	136	392	178	279	314	328	170	338	116	235	286	296	306	362	294	262	600	313		
Maharashtra	40	100	68	130	108	119	322	83	234	100	556	92	362	85	302	107	664	95		
Mysore	16	101	12	0	28	58	60	24	34	37	94	29	76	41	46	28	122	35		
All-India	496	247	546	213	1042	229	1398	139	1172	149	2570	144	1894	167	1718	170	3612	168		

NOTE.—The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (12.4) Unweighted gross yield rate (kgm/acre) of ragi grown pure or mixed by states

state	unweighted yield rate in kilograms per acre of gross area																	
	pure						mixed						combined					
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined	
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Punjab . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	21	398	10	542	31	444	117	229	68	253	185	282	138	314	78	290	216	305
Madhya Pradesh	12	153	..	..	12	153	..	..	2	63	2	63	12	153	2	63	14	140
Bihar	95	354	110	314	205	333	55	191	42	339	97	255	..	294	152	321	302	308
Orissa	66	274	30	264	96	271	8	272	2	303	10	278	74	274	32	266	106	272
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	448	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	182	448	178	454	360	451	95	244	14	200	109	238	277	379	192	436	469	402
Madras	333	474	262	453	595	465	51	349	88	288	139	310	384	457	350	411	734	435
Kerala . . . . .	..	..	..	..	..	..	2	55	2	0	4	28	2	55	2	0	4	28
Gujarat	26	91	22	167	48	126	..	..	..	..	..	..	26	91	22	167	48	126
Maharashtra	28	214	24	327	52	226	11	144	4	97	15	131	39	194	28	294	67	236
Mysore	152	215	92	222	244	218	166	139	182	107	348	122	318	175	274	145	592	161
All-India	915	374	728	384	1643	380	505	225	404	198	909	213	1420	321	1132	317	2552	319

NOTE.—The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (12.5) : *Unweighted gross yield rate (kgm/acre) of maize grown pure or mixed by states*

state	unweighted yield rate in kilograms per acre of gross area																	
	pure						mixed						combined					
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined	
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan	40	382	52	410	92	398	130	354	106	461	236	402	170	361	158	444	328	401
Punjab	82	749	176	780	258	770	26	596	6	598	32	596	108	712	182	774	290	751
Jammu & Kashmir	80	310	92	319	172	315	20	141	22	245	42	195	100	276	114	304	214	291
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	44	397	40	627	84	507	270	301	302	406	572	356	314	314	342	431	656	375
Madhya Pradesh	82	406	94	408	176	407	142	223	202	238	344	232	224	290	296	292	520	291
Bihar	86	424	126	414	212	418	370	372	294	380	664	376	456	382	420	390	876	386
Orissa	16	348	6	780	22	466	..	..	..	..	..	..	16	348	6	780	22	466
West Bengal	18	1811	..	..	18	1811	2	2412	..	..	2	2412	20	1871	..	..	20	1871
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	14	445	26	1193	40	931	22	544	..	..	22	544	36	506	26	1193	62	794
Madras	2	695	..	..	2	695	6	602	6	288	12	445	8	626	6	288	14	481
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	16	306	24	329	40	320	18	244	12	304	30	268	34	273	36	321	70	298
Maharashtra	4	181	6	341	10	277	4	151	4	208	8	180	8	166	10	288	18	234
Mysore	10	309	..	..	10	309	66	539	12	962	38	673	36	475	12	962	48	598
All-India	494	492	642	544	1136	522	1036	342	966	371	2002	356	1530	390	1608	440	3138	416

NOTE.—The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (12.6) : Unweighted gross yield rate (kgm/acre) of wheat grown pure or mixed by states

state	unweighted yield rate in kilograms per acre of gross area																		
	pure						mixed						combined						
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
Rajasthan	64	592	52	495	116	549	202	287	192	252	394	270	266	361	244	303	510	333	
Punjab	162	437	136	441	298	439	152	392	188	318	340	351	314	415	324	369	638	392	
Jammu & Kashmir	62	282	39	365	101	314	8	231	2	349	10	255	70	276	41	365	111	309	
Delhi	15	697	6	984	21	779	4	567	10	549	14	554	19	670	16	724	35	695	
Himachal Pradesh	12	315	12	145	24	230	..	..	8	91	8	91	12	315	20	124	32	196
Uttar Pradesh	73	274	70	338	143	305	1136	312	1042	313	1278	312	1209	309	1112	315	2321	312	
Madhya Pradesh	107	259	102	249	209	254	320	181	295	187	615	184	427	201	397	203	824	202	
Bihar	69	318	34	299	103	312	346	244	374	210	720	226	415	256	408	217	823	237	
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal	11	189	8	381	19	270	14	147	14	362	28	254	25	165	22	369	47	260	
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	8	417	3	81	11	325	6	110	2	91	8	105	14	285	5	85	19	232	
Madras . . . . .	..	..	6	483	6	483	..	..	..	..	..	..	..	..	6	483	6	483
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	122	655	134	599	256	626	14	806	39	507	53	586	136	671	173	578	309	619	
Maharashtra	151	350	174	388	235	370	120	195	111	237	213	215	271	281	285	330	556	306	
Mysore	4	211	4	488	8	350	26	116	48	104	74	108	30	129	52	133	82	132	
All-India	860	406	780	414	1640	409	2348	280	2325	271	4673	276	3208	314	3105	307	6313	311	

NOTE.—The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (12.7) : Unweighted gross yield rate (kgm/acre) of barley grown pure or mixed by states

states	unweighted yield rate in killograms per acre of gross area																	
	pure						mixed						combined					
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined	
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan	28	776	36	916	64	855	138	397	132	370	270	384	166	460	168	487	334	474
Punjab	8	465	5	234	13	376	4	657	28	574	32	584	12	529	33	522	45	524
Jammu & Kashmir	2	121	1	257	3	166	..	..	..	..	..	..	2	121	1	257	3	166
Delhi	1	846	1	510	2	678	..	..	12	78	12	78	1	846	13	111	14	164
Himachal Pradesh . . . . .	..	..	2	131	2	131	..	..	..	..	..	..	..	..	2	131	2	131
Uttar Pradesh	20	176	16	208	36	190	540	261	608	260	1148	260	560	258	624	258	1184	258
Madhya Pradesh	2	554	6	180	8	224	16	210	70	69	86	95	18	248	76	77	94	110
Bihar	26	182	22	243	48	210	208	168	280	140	488	152	234	170	302	148	536	158
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal	8	343	10	95	18	205	22	61	28	110	50	88	30	136	38	106	68	119
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Madras . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat . . . . .	..	..	1	269	1	269	..	..	2	188	2	188	..	..	3	215	3	215
Maharashtra . . . . .	..	..	1	52	1	52	..	..	..	..	..	..	..	..	1	52	1	52
Mysore . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
All-India	95	407	101	457	196	433	928	256	1160	234	2088	244	1023	271	1261	252	2284	260

NOTE.—The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (13.1) : Unweighted gross yield rate (kgm/acre) of rice in irrigated and non-irrigated areas by states

state	unweighted yield rate in kilograms per acre of gross area																	
	irrigated						non-irrigated						combined					
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined	
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan	1	100	1	9	2	54	11	64	5	32	16	54	12	67	6	28	18	54
Punjab	25	244	43	404	68	345	17	422	10	43	27	282	42	316	53	334	95	326
Jammu & Kashmir	70	428	81	637	151	540	12	121	12	555	24	338	82	385	93	627	175	514
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh	6	424	..	..	6	424	..	..	..	..	..	..	6	424	..	..	6	424
Uttar Pradesh	197	301	188	275	385	288	453	181	462	184	915	183	650	217	650	210	1300	214
Madhya Pradesh	68	226	31	293	99	247	319	130	324	140	643	135	387	147	355	153	742	150
Bihar	167	361	153	377	320	369	437	301	402	329	839	315	604	318	555	343	1159	330
Orissa	69	436	57	386	126	413	243	334	223	344	466	339	312	357	280	353	592	355
West Bengal	46	559	78	534	124	543	373	401	228	408	601	404	419	418	306	440	725	427
Assam	18	537	8	444	26	508	233	462	226	424	459	443	251	467	234	425	435	447
Manipur	35	613	27	616	62	614	136	587	69	650	205	608	171	592	96	641	267	610
Tripura	9	359	25	426	34	408	176	391	199	401	375	396	185	390	224	404	409	398
Andhra Pradesh	490	535	416	518	906	527	57	320	22	214	79	290	547	513	438	503	985	509
Madras	666	527	548	532	1214	529	14	93	19	162	33	133	680	518	567	520	1247	519
Kerala	168	530	172	499	340	514	312	444	311	428	623	436	480	474	483	453	963	463
Gujarat	23	474	30	377	53	419	77	199	66	141	143	172	100	263	96	214	196	239
Maharashtra	61	427	67	296	128	358	211	252	237	232	448	241	272	291	304	247	576	268
Mysore	67	530	123	457	190	483	84	308	44	230	128	281	151	406	167	397	318	401
All-India	2186	475	2048	470	4234	473	3165	317	2859	306	6024	312	5351	382	4907	375	10258	379

NOTE.—The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (13.2) : *Unweighted gross yield rate (kgm/acre) of jowar in irrigated and non-irrigated areas by states*

state	unweighted yield rate in kilograms per acre of gross area																	
	irrigated						non-irrigated						combined					
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined	
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan . . . . .	..	..	2	40	2	40	156	68	124	89	280	77	156	68	126	88	282	77
Punjab . . . . .	..	..	..	..	..	..	4	53	24	77	28	74	4	53	24	77	28	74
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	8	189	2	63	10	164	380	150	360	137	740	144	388	151	362	136	750	144
Madhya Pradesh . . . . .	..	..	6	0	6	0	376	199	421	262	797	232	376	199	427	259	803	231
Bihar . . . . .	..	..	..	..	..	..	16	211	22	117	38	157	16	210	22	117	..	156
Orissa . . . . .	..	..	..	..	..	..	12	320	..	..	12	320	12	320	..	..	12	320
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	50	178	46	195	96	186	337	169	268	215	605	189	387	170	314	212	701	189
Madras	210	419	192	419	402	419	168	77	178	88	346	83	378	267	370	260	748	264
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	2	96	24	464	26	436	158	430	82	178	240	344	160	426	106	242	266	353
Maharashtra	104	401	98	380	202	391	792	204	758	219	1,550	217	896	227	856	237	1,752	232
Mysore	30	432	26	80	56	269	378	189	362	110	740	150	408	026	388	108	796	158
All-India	404	380	396	354	800	367	2,777	188	2,599	180	5,376	186	3,181	212	2,995	203	6,176	208

NOTE : The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round, July 1965—June 1966

TABLE (13.3) : Unweighted gross yield rate (kgm/acre) of bajra in irrigated and non-irrigated areas by states

state	unweighted yield rate in kilograms per acre of gross area																		
	irrigated						non-irrigated						combined						
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
Rajasthan	4	133	24	299	28	275	304	67	290	78	594	72	308	68	314	95	622	82	
Punjab	4	434	24	326	28	341	84	170	80	116	164	144	88	181	104	164	192	171	
Jammu & Kashmir . . . . .	..	..	..	..	..	..	8	45	..	..	8	45	8	45	..	..	8	45
Delhi	8	250	..	..	8	250	..	..	..	..	..	..	8	250	..	..	8	250
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	2	408	20	411	22	411	270	194	316	205	586	200	272	194	336	218	608	207	
Madhya Pradesh . . . . .	..	..	..	..	..	..	48	235	52	190	100	212	48	235	52	190	100	212
Bihar . . . . .	..	..	..	..	..	..	..	..	4	108	4	108	..	..	4	108	4	108
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	26	384	30	213	56	292	194	134	66	166	260	142	220	164	96	180	316	169	
Madras	62	368	72	346	134	356	136	71	98	88	234	78	198	164	170	197	368	179	
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	98	537	48	718	146	597	208	279	246	251	454	264	306	362	294	262	600	313	
Maharashtra	14	304	10	91	24	215	348	76	292	107	640	90	362	85	302	107	664	95	
Mysore . . . . .	..	..	..	..	..	..	76	41	46	28	122	36	76	41	46	28	122	35
All-India	218	434	223	394	446	414	1,676	132	1,490	148	3,166	140	1,894	167	1,718	170	3,612	168	

Note : The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th round : July 1965—June 1966

TABLE (13.4) : Unweighted gross yield rate (kgm/acre) of ragi in irrigated and non-irrigated areas by states

state	unweighted yield rate in killograms per acre of gross area																	
	irrigated						non-irrigated						combined					
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined	
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Punjab . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jammu & Kashmir . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	32	546	8	692	40	575	106	243	70	244	176	243	138	314	78	290	216	305
Madhya Pradesh . . . . .	..	..	..	..	..	..	12	153	2	63	14	140	12	153	2	63	14	140
Bihar	8	306	4	563	12	392	142	294	148	314	290	304	150	294	152	321	302	308
Orissa	12	226	..	..	12	226	62	283	32	266	94	277	74	274	52	266	106	272
West Bengal . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	215	471	182	458	397	465	62	58	10	37	72	55	277	379	192	436	469	402
Madras	341	492	304	442	645	468	43	190	44	216	87	203	384	457	350	411	734	435
Kerala . . . . .	..	..	..	..	..	..	2	55	2	0	4	28	2	55	2	0	4	28
Gujarat . . . . .	..	..	..	..	..	..	26	91	22	167	48	126	26	91	22	167	48	126
Maharashtra	4	138	..	..	4	138	35	201	28	294	63	242	39	194	28	294	67	236
Mysore	146	275	96	290	242	281	172	91	178	62	350	76	318	175	274	145	592	161
All-India	758	438	594	427	1,352	433	662	187	536	196	1,198	191	1,420	321	1,132	317	2,552	319

Note : The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1966—June 1966

TABLE (13.5): Unweighted gross yield rate (kgm/acre) of maize in irrigated and non-irrigated areas by states

state	unweighted yield rate in kilograms per acre of gross area																	
	irrigated						non-irrigated						combined					
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined	
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan	68	477	60	421	128	451	102	283	98	458	200	369	170	361	158	444	328	401
Punjab	65	875	126	851	192	859	42	457	56	603	98	540	108	712	182	774	290	751
Jammu & Kashmir	4	569	46	233	50	260	96	264	68	353	164	301	100	276	114	304	214	291
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	66	372	138	535	204	482	248	300	204	362	452	328	314	314	342	431	656	375
Madhya Pradesh . . . . .	..	..	24	321	24	321	224	289	272	289	496	289	224	290	296	292	520	291
Bihar	24	326	..	..	24	326	432	385	420	390	852	387	456	382	420	390	876	386
Orissa . . . . .	..	..	..	..	..	..	16	348	6	780	22	466	16	348	6	780	22	466
West Bengal . . . . .	..	..	..	..	..	..	20	1,871	..	..	20	1,871	20	1,871	..	..	20	1,871
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	14	445	22	1,323	36	982	22	544	4	478	26	534	36	506	26	1,193	62	794
Madras	6	521	6	288	12	404	2	940	..	..	2	940	8	626	6	288	14	481
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	4	278	10	391	14	359	30	273	26	293	56	282	34	273	36	321	70	298
Maharashtra	4	181	10	288	14	257	4	151	..	..	4	151	8	166	10	288	18	234
Mysore	36	476	12	962	48	598	..	..	..	..	..	..	36	475	12	962	48	598
All-India	292	525	454	613	746	572	1,238	359	1,154	375	2,392	367	1,530	390	1,608	440	3,138	416

NOTE : The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (13.6) : *Unweighted gross yield rate (kgm/acre) of wheat in irrigated and non-irrigated areas by states*

state	unweighted yield rate in kilograms per acre of gross area																	
	irrigated						non-irrigated						combined					
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined	
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan	197	428	206	341	403	384	69	168	38	101	107	144	266	361	244	303	510	333
Punjab	197	504	190	467	387	486	117	265	134	231	251	247	314	415	324	369	368	392
Jammu & Kashmir	17	212	6	440	23	271	53	297	35	351	88	318	70	276	41	365	111	309
Delhi	13	764	13	772	26	768	6	464	3	514	9	481	19	670	16	724	35	695
Himachal Pradesh . . . . .	..	..	6	186	6	186	12	315	14	96	26	197	12	315	20	124	32	196
Uttar Pradesh	788	366	665	357	1,453	362	421	203	447	252	868	228	1,209	309	1,112	315	2,321	312
Madhya Pradesh	82	372	48	428	130	393	345	159	349	172	694	166	427	201	397	203	824	202
Bihar	80	296	104	233	184	260	335	247	304	211	639	230	415	256	408	217	823	237
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal	8	244	2	29	10	201	17	128	20	402	37	276	25	165	22	369	47	260
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	4	570	4	106	8	338	10	172	1	0	11	156	14	285	5	85	19	232
Madras . . . . .	..	..	..	..	..	..	..	..	6	483	6	483	..	..	6	483	6	483
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	128	696	148	599	276	644	8	282	25	457	33	415	136	671	173	578	309	619
Maharashtra	141	430	160	458	301	445	130	120	125	165	255	142	271	281	285	330	556	306
Mysore	4	211	8	344	12	300	26	116	44	95	70	103	30	129	52	133	82	132
All-India	1,659	418	1,560	398	3,219	408	1,549	202	1,545	216	3,094	209	3,208	314	3,105	307	6,313	311

NOTE : The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (13.7) : Un-weighted gross yield rate (kgm/acre) of barley in irrigated and non-irrigated areas by states

state	un-weighted yield rate in kilograms per acre of gross area																			
	irrigated						non-irrigated						combined							
	sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined		sub-sample 1		sub-sample 2		combined			
	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)		
Rajasthan	132	524	145	537	277	531	34	214	23	173	57	197	166	460	168	487	334	474		
Punjab	9	615	18	629	27	624	3	270	15	396	18	375	12	529	33	522	45	524		
Jammu & Kashmir . . . . .	..	..	..	..	..	..	2	121	1	257	3	166	2	121	1	257	3	166		
Delhi	1	846	..	..	1	846	..	..	13	111	13	111	1	846	13	111	14	164		
Himachal Pradesh . . . . .	..	..	..	..	..	..	..	..	2	131	2	131	..	..	2	131	2	131		
Uttar Pradesh	372	323	398	312	770	317	188	130	226	164	414	149	560	258	624	258	1,184	258		
Madhya Pradesh	6	144	14	151	20	149	12	300	62	61	74	100	18	248	76	77	94	110		
Bihar	27	250	66	86	93	134	207	159	236	166	443	163	234	170	302	148	536	158		
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal . . . . .	..	..	7	21	7	21	30	137	31	124	61	130	30	136	38	106	68	119		
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Madras . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kerala . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat . . . . .	..	..	3	215	3	215	..	..	..	..	..	..	..	..	3	215	3	215		
Maharashtra . . . . .	..	..	..	..	..	..	..	..	1	52	1	52	..	..	1	52	1	52		
Mysore . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
All-India	547	372	651	341	1,198	355	476	154	610	157	1,086	156	1,023	271	1,261	252	2,284	260		

NOTE : The number of cuts given here may not tally with that on which the production estimates are based for reasons indicated in para 6.2.

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (14.1) : *Ratio of dry weight to green weight of cereal crops of autumn season*

state	paddy		jowar		bajra		ragi		maize		wheat		barley	
	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Rajasthan	0.6526	0.4660	0.4154	..	0.4323	..	..	..	0.4627	..	..	..	..	..
Punjab	0.8831	0.7679	0.4010	..	0.5202	..	..	..	0.4730	..	..	..	..	..
Jammu & Kashmir	0.7575	..	..	..	0.3351	..	..	..	0.4787	..	..	..	..	..
Delhi . . . . .	..	0.8584	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh	0.7301	0.6800	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	0.8181	0.8014	..	..	0.4615	..	0.4371	..	0.4084	..	..	..	..	..
Madhya Pradesh	0.7564	0.8361	0.6122	..	0.3923	..	..	..	0.3421	..	..	..	..	..
Bihar	0.8051	0.8017	0.3492	0.4907	..	0.5116	0.5120	0.4376	0.4863	0.4865	..	..	..	..
Orissa	0.8583	0.9181	..	..	..	..	0.4835	..	0.4918	..	..	..	..	..
West Bengal	0.8841	0.8929	..	..	..	..	..	..	0.7368	..	..	..	..	..
Assam	0.9056	0.8887	..	..	..	..	..	..	..	..	..	..	..	..
Manipur	0.8826	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura	0.8557	0.8805	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh	0.8829	0.7558	0.4954	0.6867	0.5479	0.4396	0.4099	0.3533	0.5109	0.4747	..	..	..	..
Madras	0.8772	0.8788	0.5520	0.4767	0.5232	0.5400	0.4569	0.4282	0.4022	0.4150	..	..	..	..
Kerala	0.8902	0.8832	..	..	..	..	0.3542	..	..	..	..	..	..	..
Gujarat	0.8670	0.7416	0.4589	..	0.5878	..	..	..	0.4245	..	..	..	..	..
Maharashtra	0.8800	0.8372	..	..	0.4772	..	0.6528	..	0.4288	..	..	..	..	..
Mysore	0.8660	0.9003	0.4531	..	0.2880	..	0.6316	..	0.5466	..	..	..	..	..

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (14.2) : Ratio of dry weight to green weight of cereal crops of winter season

state	paddy		jowar		bajra		ragi		maize		wheat		barley	
	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Rajasthan	..	..	0.4463	0.4233	0.6271	..	..	..	..	..	..	..	..	..
Punjab	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jammu & Kashmir	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh	0.8200	0.8540	0.4956	0.4985	0.4924	0.4813	..	..	..	..	0.0002	0.0002	0.0002	0.0002
Madhya Pradesh	0.8693	0.8574	0.4921	0.5147	..	..	6.6859	..	0.5545	..	0.0002	0.0002	0.0002	0.0002
Bihar	0.8338	0.8597	0.5848	0.4009	..	..	0.4787	0.4008	..	..	0.0002	0.0002	0.0002	0.0002
Orissa	0.9000	0.8779	0.5999	..	..	..	0.4518	0.5514	..	..	0.0002	0.0002	..	0.0002
West Bengal	0.9121	0.8866	..	..	..	..	..	..	..	..	0.0002	0.0002	0.0002	0.0002
Assam	0.9167	0.9009	..	..	..	..	..	..	..	..	0.0002	0.0002	0.0002	0.0002
Manipur	0.8421	0.8882	..	..	..	..	..	..	..	..	0.0002	0.0002	0.0002	0.0002
Tripura	0.8613	0.8663	..	..	..	..	..	..	..	..	0.0002	0.0002	0.0002	0.0002
Andhra Pradesh	0.8575	0.8727	0.5871	0.528	0.7776	0.4793	..	0.4352	..	..	..	..	..	..
Madras	0.8695	0.8989	0.5772	0.5949	..	0.5295	0.5839	0.4664	..	..	..	..	..	..
Kerala	0.9147	0.8772	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat	0.9221	0.7615	0.6731	0.5547	..	..	0.4370	0.4630	..	..	..	..	..	..
Maharashtra	0.8200	0.8511	0.5382	0.5345	..	0.4483	0.5781	0.6446	..	0.4950	..	..	..	..
Mysore	0.8903	0.9126	0.6627	0.5691	0.6826	0.4811	0.4291	0.4042	..	..	..	..	..	..

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (14.3) : *Ratio of dry weight to green weight of cereal crops of spring season*

state	paddy		jowar		bajara		ragi		maize		wheat		barley	
	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Rajasthan . . . .	..	..	..	..	..	..	..	..	..	..	0.6164	0.5455	0.6612	0.6516
Punjab . . . . .	..	..	..	..	..	..	..	..	..	..	0.5919	0.5843	0.6918	0.7609
Jammu & Kashmir . .	..	..	..	..	..	..	..	..	..	..	0.5424	0.6072	0.6114	0.5655
Delhi . . . . .	..	..	..	..	..	..	..	..	..	..	0.5560	0.6036	0.5317	0.564 3
Himachal Pradesh . .	..	..	..	..	..	..	..	..	..	..	0.5881	0.4595	..	0.5118
Uttar Pradesh . . .	..	..	..	..	..	..	..	..	..	..	0.5912	0.5978	0.7269	0.7541
Madhya Pradesh . . .	..	..	..	..	..	..	..	..	..	..	0.5526	0.5394	0.5269	0.5575
Bihar . . . . .	..	..	..	..	..	..	..	..	..	..	0.6095	0.5773	0.6554	0.6074
Orissa . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal . . . .	..	..	..	..	..	..	..	..	..	..	0.4106	0.8107	0.6131	0.6704
Assam . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura	0.8762	0.8596	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh . . .	0.7622	0.8389	0.6838	0.5379	..	..	0.4813	0.4234	..	0.8555	0.5287	0.3747	..	..
Madras	0.8889	0.9094	0.4088	0.6084	..	0.4000	0.4897	0.5160	..	..	..	0.5692	..	..
Kerala	0.9096	0.9416	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat . . . . .	..	..	0.5340	0.5983	0.8000	..	..	..	..	0.4338	0.6263	0.5886	..	0.6753
Maharashtra . . . .	..	..	0.5988	0.6133	..	..	..	..	..	0.3705	0.5967	0.5959	..	0.4043
Mysore	0.9062	0.9353	0.5817	0.6294	..	..	0.4301	0.6566	0.4172	..	0.5684	0.6599	..	..

National Sample Survey : 20th Round : July 1965—June 1966

TABLE (14.4) : Ratio of dry weight to green weight of cereal crops of summer season

state	paddy		jowar		bajra		ragi		maize		wheat		barley	
	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2	sub-sample 1	sub-sample 2
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Rajasthan . . .	..	..	..	..	..	..	..	..	0.4676	..	..	..	..	..
Punjab . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jammu & Kashmir .	..	..	..	..	..	..	..	..	..	..	0.5465	..	..	..
Delhi . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Himachal Pradesh .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Uttar Pradesh . .	..	..	..	..	..	..	..	..	..	..	0.4951	0.5365	0.6247	0.8665
Madhya Pradesh . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar . . .	..	..	..	..	..	..	..	..	0.5031	..	..	..	..	..
Orissa . . .	..	0.8992	..	..	..	..	..	..	..	..	..	..	..	..
West Bengal . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Manipur . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tripura . . .	..	0.8427	..	..	..	..	..	..	..	..	..	..	..	..
Andhra Pradesh . .	0.8484	0.8296	0.6633	0.3984	..	..	0.6162	..	..	..	..	..	..	..
Madras . . .	0.8661	0.9371	0.5402	0.5959	..	..	0.2945	0.3539	..	..	..	..	..	..
Kerala . . .	0.8950	0.9267	..	..	..	..	..	..	..	..	..	..	..	..
Gujarat . . .	..	..	..	..	0.5788	0.5634	..	..	..	..	..	..	..	..
Maharashtra . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mysore . . .	0.9683	0.9325	..	..	..	..	0.5987	..	..	..	..	..	..	..

APPENDIX I

SAMPLING DESIGN AND ESTIMATION PROCEDURE

The sample design was a stratified two-stage one for the land utilisation survey, villages being the first stage units and clusters of plots, the second stage-units. For the crop yield survey, the design was a four-stage one with villages, clusters of plots, sub-plots growing specified crops and circular cuts as the first, second, third and fourth stage units respectively. The first stage units were selected in the form of 4 independent sub-samples. Sub-samples 1 and 3 were surveyed by one party of investigators and sub-samples 2 & 4 by another party of investigators. The first stage units for the crop yield survey were a sub-sample of those chosen for the land utilisation survey.

2. Within a state, contiguous tehsils or parts of contiguous tehsils fairly homogeneous with respect to population density and altitudes and having good transport and communication facilities amongst them were grouped together to form compact strata as far as possible such that the sum of the sizes of the villages in each stratum was exactly equal, the size of a village being the ratio of its population to the average population of a village in the population class (0-499) of that state, rounded off to a suitable integer. In the whole of India 353 strata were formed.

3. The allocation of the total sample size to the various states was done on a joint consideration of the rural population, area under food crops and the investigator strength in the central NSS Blocks of the States. The allocation was modified to ensure a minimum sample size, for the central sample of 360 villages in each State and about 200 sample villages in each of the Union Territories Manipur and Tripura. The allocation was rounded off to 24 or multiples of 24 to facilitate having 4 sub-samples of 6 villages each per stratum.

4. The frame used for selection was the list of villages as per the 1961 census. Within each stratum the tehsils were arranged in a serpentine order and four independent interpenetrating sub-samples of 12 villages each were selected circularly systematically with probability proportional to size. In each sub-sample of a stratum the 6 villages with odd orders of selection formed the Central Sample and the remaining 6 villages formed the State sample.

5. The land utilisation survey was conducted in all the 6 villages in each of the four sub-samples for autumn, winter, spring and summer seasons. The crop-cutting experiments were conducted in villages 1, 3 and 6 of sub-samples 1 and 2 only of each stratum for all the four seasons.

6. In sample villages meant only for land utilisation survey a circular systematic sample of 4 clusters of 5 plots each and in sample villages meant for both land utilisation survey and crop-cutting experiments a circular systematic sample of 6 clusters of 10 plots each were selected per village. This selection procedure was adopted where cadastral maps for the villages were available and also in case of villages (without maps) where a list of plots was available. The sample clusters were selected through the basic plots (equal to number to the number of clusters to be selected), selected circularly systematically with equal probability. If the number of plots in the village was less than 20 (for a village where only land utilisation survey was to be conducted) or less than 60 (for a village where crop yield survey also was to be conducted) then all the plots in the village were completely enumerated. If neither the cadastral map nor the list of plots was available, a circular systematic sample of 4 or 6 households was selected from a sample village depending on whether it was meant only for land utilisation survey or both land utilisation survey and crop-cutting experiments and all the plots possessed by the selected households and situated within a radius of 5 miles of the sample village were surveyed. If the number of households in the village was less than 4 or 6 as the case may be all the households were taken up for the survey. The same set of sample clusters or plots possessed by same set of households were surveyed for all the seasons.

7. In each season six sub-plots from the sample plots surveyed for land utilisation were selected with probability proportional to the gross area under the specified crops. From a selected sub-plot, yield data were collected from one circular cut selected at random (per crop) in case the sub-plot was growing any of the crops—paddy, ragi, wheat (grown pure) or barley (grown pure) and from two cuts selected at random (per crop) in case of sub-plots growing—jowar, bajra, wheat (mixed), maize or barley (mixed). If the number of sub-plots having the specified cereal crops in a village was less than 6, all these sub-plots were taken up for crop-cutting experiments. Selection of sub-plots for crop-cutting experiments was done afresh in each season.

8. Estimation procedure :

8.1 Notation :

s=subscript for sth stratum/sub-stratum

i=subscript for ith sample village/selected part of village

k=number of strata/sub-strata in the State

v=number of sample villages selected in the stratum and the sub-sample for the season

Z=sum of sizes (used for selection) of the villages per stratum

z=size (used for selection) of the village

r=adjustment ratio for revenue village selection and selection of part of the villages *

N=highest survey number (adjusted)**/highest sampling serial number of plots (adjusted)**

H = total number of households in the village

n = number of clusters/households selected

c = cluster size (in terms of number of plots)

a = area under a particular crop

y = yield rate for a particular crop

8.2 The estimate of area and yield rates for each crop were obtained separately for each crop season and for each sub-sample for crop grown 'pure' and 'mixed' separately. The estimates of crop production was obtained as a product of the estimate of the crop area (based on all sample villages where land utilisation survey was conducted including crop-cutting villages) and the estimate of yield rate (obtained from all sample villages where crop-cutting experiments were conducted).

8.3 *Acreage estimate.*—An estimate of the gross (separately for 'pure' and 'mixed') area under a particular crop in a particular season for a given sub-sample in a State is given by

$$\hat{A} = \sum_{s=1}^k \frac{Z}{v} \sum_{i=1}^v \frac{r_{si}}{Z_{si}} \frac{N'_{si}}{n_{si}} a_{si}$$

where Z is constant for all strata and v = 6 for 'autumn', 'winter', 'spring' and 'summer' season. In case of post card size village schedule, v = actual number of villages surveyed.

$$N'_{si} = \frac{N_{si}}{c_{si}} \quad \text{if clusters of plots were selected using map or a list of plots}$$

$$= H_{si}, \quad \text{if households were selected}$$

$$\frac{N'_{si}}{n_{si}} = 1 \quad \text{for a village where all the plots or households in the village were surveyed.}$$

$$a_{si} = \frac{n_{si}}{n_{si}} \quad \text{gross area in all the sampled clusters/plots possessed by the sampled households of the village}$$

$$\hat{A} = \sum_{s=1}^k \hat{A}_s \quad \text{where } \hat{A}_s \text{ is the } s\text{th stratum estimate}$$

$$\text{and } \hat{A}_s = \frac{Z}{v} \sum_{i=1}^v \frac{\hat{A}_{si}}{Z_{si}} \quad \text{where } \hat{A}_{si} \text{ is the estimate for the } i\text{th village in the } s\text{th stratum and}$$

$$\hat{A}_{si} = r_{si} \frac{N'_{si}}{r_{si}} \hat{A}_{si}$$

8.4 *Substitutions.*—If any of the selected villages was a casualty for the land utilisation survey for a season in the sense that it could not be surveyed, it was to be substituted by the next sample village selected for land utilisation survey in that stratum. Similarly if a cluster/household selected for acreage survey in a village was a casualty it was substituted by the next surveyed cluster/household. Likewise if a selected plot in a cluster selected for acreage survey was a casualty, it was substituted by the next plot. No substitution was done in post card schedules.

8.5 *Production estimate.*—The production estimate P is the product of Y, an estimate of the yield rate of the crop based on the villages reporting crop-cutting experiments and A, an estimate of the area under the crop based on all the villages selected for the land-utilisation survey.

8.6 The estimate \hat{Y} is given by

$$\hat{Y} = \frac{\sum_s \hat{A}_s \bar{Y}_s}{\sum_s \hat{A}_s}$$

where \bar{Y}_s = simple average of yield rates over the cuts taken for the crop in the s th stratum.

$$\hat{A}_s = \text{obtained as described in paragraph 8.3}$$

\sum' denotes summation over only those strata reporting crop-cutting experiments for that crop.

* r = 1 When the surveyed revenue village coincides with the sample census village and the whole of it was surveyed.

r = The number of areal divisions/hamlet groups formed in the village if an areal division or hamlet group was selected for survey.

r = The number of revenue villages which are wholly contained in the sampled census village in case the surveyed revenue village was selected from among them.

r = 1/number of census villages wholly contained in the surveyed revenue village, when the sampled census village was one of them.

**For selection of sample plots, the highest survey number or sampling serial number was rounded off to the next higher multiplier or cluster size (in case it was not a multiple of the cluster size).

8.7 As mentioned before, the area survey was planned to be conducted in all the sample villages of each of the four sub-samples while crop-cutting experiments were planned for a sub-set of villages of sub-samples 1 and 2 only. The production estimates have therefore been obtained as the product of

- (i) acreage estimate from sub-samples 1 and 3 combined and the estimates of yield rate from sub-sample 1 (designated as half-sample 1)
- (ii) acreage estimate from sub-sample 2 and 4 combined and the estimate of yield rate from sub-sample 2 (designated as half-sample 2).

It may be mentioned that half-sample 1 villages were surveyed by one party of investigators while half-sample 2 was surveyed by another party.

The combined production estimate was taken to be the mean of the two half-sample estimates.

8.8 The 'total' estimates of production for a crop is given by the sum of the production estimate for that crop grown 'pure' and that for the crop grown 'mixed'.

8.9 The estimate given above are for the green weight of the crop. The estimate for the dry weight is obtained by multiplying the sub-sample estimate for the crop for each State by a driage factor for that sub-sample (for each season). This factor is the ratio of the total dry weight to the total green weight of that crop (pure and mixed) obtained from the cut of 2' 3" radius of the given season and sub-sample for the whole State. The driage factors as obtained in the 19th round from the detailed schedule, were used to obtain the estimates of dry productions from the post card size schedule of this round.

APPENDIX—II

List of strata not included in the tabulation of village summary schedules

season	states	strata excluded
(1)	(2)	(3)
1. Autumn	West Bengal	1 and 17
2. Winter	Rajasthan	14
	Punjab	5 and 6
	Jammu and Kashmir	2, 5, 6 and 7
	Delhi	1
	Himachal Pradesh	1
	Uttar Pradesh	23
	West Bengal	2, 17 and 22
	Manipur	7
	Andhra Pradesh	22
3. Spring	Jammu and Kashmir	5 and 7
	Uttar Pradesh	23
	West Bengal	1, 2, 9 and 17
	Assam	3, 6, 12 and 13
	Manipur	7
4. Summer	Rajasthan	9 and 14
	Punjab	1
	Jammu and Kashmir	5, 7 and 11
	Uttar Pradesh	1, 11, 23 and 40
	Bihar	18
	West Bengal	1, 2, 9, 10, 11 and 12
	Assam	6 and 13
	Maharashtra	16

APPENDIX III—*Facsimile of the Schedule of Investigation*

SUMMER

RURAL

*delete whichever is inapplicable.

[8] utilisation particulars of plots

Serial number	cluster/household number	survey number	geographical area (0.00) acres	sub-plot number	area of sub-plot as percentage of geographical area of plot	utilisation type	crops of summer season and their mixtures			other utilisation		gross area (0.00) acres under															
							name of crops	crop code*	season code**	name	season code**	crop grown singly								mixed crops							
												paddy	jowar	bajra	ragi	maize	wheat	barley	small millets	paddy	jowar	bajra	ragi	maize	wheat	barley	small millets
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
1																											
2																											
3																											
4																											
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17																											
18																											
19																											
20																											
21																											
22																											
23																											
24	total			x	x	x	x	x	x	x	x																

*paddy-1, jowar-2, bajra-3, ragi-4, maize-5, wheat-6, barley-7, small millets-8. (codes are to be given only for the specified cereal crops of the reference season.) **autumn-1, winter-2, spring-3, summer-4.

[8] utilisation particulars of plots

serial number	cluster/household number	survey number	geographical area (0.00) acres	sub-plot number	area of sub-plot as percentage of geographical area of plot	utilisation type	crops of summer season and their mixtures			other utilisation		gross area (0.00) acres under															
							name of crops	crop code*	season code**	name	season code**	crop grown singly								mixed crops							
												paddy	jowar	bajra	ragi	maize	wheat	barley	small millets	paddy	jowar	bajra	ragi	maize	wheat	barley	small
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
1																											
2																											
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16																											
17																											
18																											
19																											
20																											
21																											
22																											
23																											
24	total			×	×	×	×	×	×	×	×																

*paddy-1, jowar-2, bajra-3, ragi-4, maize-5, wheat-6, barley-7, small millets-8.

(codes are to be given only for the specified cereal crops of the reference season.)

**autumn-1, winter-2, spring-3, summer-4.

[8] utilisation particulars of plots

serial number	cluster/household number	survey number	geographical area(0.00) acres	sub-plot number	area of sub-plot as percentage of geographical area of plot	utilisation type	crops of summer season and their mixtures			other utilisation		gross area (0.00) acres under															
							name of crops	crop code*	season code**	name	season code**	crop grown singly								mixed crops							
												paddy	jowar	bajra	ragi	maize	wheat	barly	small millets	paddy	jowar	bajra	ragi	maize	wheat	barley	small millets
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
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24	total			×	×	×	×	×	×	×	×																

*paddy-1, jowar-2, bajra-3, ragi-4, maize-5, wheat-6, barley-7, small millets-8.

(codes are to be given only for the specified cereal crops of the reference season.)

**autumn-1, winter-2, spring-3, summer-4.

[8] utilisation particulars of plots

serial number	cluster/household number	survey number	geographical area (0.00) acres	sub-plot number	area of sub-plot as percentage of geographical area of plot	utilisation type	crops of summer season and their mixtures			other utilisation		gross area (0.00) acres under															
							name of crops	crop code*	season code**	name	season code**	crop grown singly								mixed crops							
												Paddy	jowar	bajra	ragi	maize	wheat	barley	small millets	Paddy	jowar	bajra	ragi	maize	wheat	barley	small millets
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
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24	total			x	x	x	x	x	x	x	x																

* paddy-1, jowar-2, bajra-3, ragi-4, maize-5, wheat-6, barley-7, small millets-8. (codes are to be given only for the specified cereal crops of the reference season.) ** autumn-1, winter-2, spring-3, summer-4.

[8] utilisation particulars of plots

serial number	cluster/household number	survey number	geographical area (0.00) acres	sub-plot number	area of sub-plot as percentage of geographical area of plot	utilisation type	crops of summer season and their mixtures			other utilisation		gross area (0.00) acres under															
							name of crops	crop code*	season code**	name	season code**	crop grown singly								mixed crops							
												paddy	jowar	bajra	ragi	maize	wheat	barley	small millets	paddy	jowar	bajra	ragi	maize	wheat	barley	small millets
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
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24	total			x	x	x	x	x	x	x	x																

* paddy-1, jowar-2, bajra-3, ragi-4, maize-5, wheat-6, barley-7, small millets-8

(codes are to be given only for the crops grown in the plots)

* paddy-1, jowar-2, bajra-3, ragi-4, maize-5, wheat-6, barley-7, small millets-8.

(codes are to be given only for the specified cereal crops of the reference season.)

** autumn-1, winter-2, spring-3, summer-4.

[8] utilisation particulars of plots

serial number	cluster/household number	survey number	geographical area (0.00) acres	sub-plot number	area of sub-plot as percentage of geo- graphical area of plot	utilisation type	crops of summer season and their mixtures			other utilisation		gross area (0.00) acres under															
							name of crops	crops code*	season code**	name	season code**	crop grown singly								mix d crops							
												paddy	jowar	bajra	ragi	maize	wheat	barley	small millets	paddy	jowar	bajra	ragi	maize	wheat	barley	small millets
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
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22																											
23																											
24	total			x	x	x	x	x	x	x	x																

* paddy-1, jowar-2, bajra-3, ragi-4, maize-5, wheat-6, barley-7, small millets-8. (codes are to be given only for the specified cereal crops of the reference season.) ** autumn-1, winter-2, spring-3, summer-4.

[10] remarks by investigator

[11] comments by inspector

*season codes for different months of harvesting of crops in the normal year : August to October, autumn-1; November to January, winter-2; February to April, spring-3; May and June, summer-4; July will be included in summer or autumn depending on crop and region.

**not to be filled in by the investigator.

GOVERNMENT OF INDIA NATIONAL SAMPLE SURVEY : 1965-66

Schedule 5.1 : Crop-cutting Experiments

AUTUMN

(Twentieth Round)

RURAL

[illegible]

*Delete whichever is inapplicable.

[6] listing and selection of sub-plots (or sub-plot groups) for crop-cutting experiments

1. total gross area (0.00 acres) =

2. interval (I) =

3. random start (R) =

4. $R + I = \dots\dots\dots$

5. $R+2I=$

6. $R+3I=$

7. $R + 4I = \dots\dots\dots$

8. $R+5I=$

[illegible]

*harvested—1, not permitted by cultivator—2, others—3.

[illegible][illegible][illegible]

* harvested—1, not permitted by cultivator—2, others—3.

** co-operative—1, indifferent—2, hostile—3.

GOVERNMENT OF INDIA NATIONAL SAMPLE SURVEY : 1965-66

Schedule 5.2 : Driage Experiments

AUTUMN

(Twentieth Round)

RURAL

[illegible]

*delete whichever is inapplicable.

[4] particulars of weightment of dry grains from circle of radius 2'3" including whole of border

[illegible]

NATIONAL SAMPLE SURVEY REPORTS ALREADY PUBLISHED

- No. 1 General Report No. 1 on the First Round (October 1950-March 1951)
- 2 Tables with Notes on the Second Round (April-June 1951)
- 3 Tables with Notes on the Third Round (August-November 1951)
- 4 Special Report on the Survey of Persons in the "Live-Register" of Delhi Employment Exchange (August-September 1951)
- 5 Technical Paper on Some Aspects of the Development of the Sample Design
- 6 Survey of Faridabad Township (March-April 1954)
- 7 Couple Fertility (Second Round : April-June, 1951 and Fourth Round : April-September 1952)
- 8 Report on Preliminary Survey of Urban Unemployment (September 1953)
- 9 Report on the Sample Survey of Displaced Persons in the Urban Areas of the Bombay State (July-September 1953)
- 10 First Report on Land Holdings, Rural Sector (Eighth Round : July 1954-March 1955)
- 11 Report on Sample Survey of Manufacturing Industries, 1949-50
- 12 A Technical Note on Age Grouping, Oct. 1958
- 13 Report on Household Transport Operations (Seventh Round : October 1953-March 1954)
- 14 Report on Some Characteristics of the Economically Active Population (Fourth to Seventh Rounds : April 1952-March 1954)
- 15 Report on Sample Survey of Manufacturing Industries, 1951
- 16 Report on Employment and Unemployment (Preliminary), (Ninth Round : May-November 1955)
- 17 Report on Sample Survey of Employment in Calcutta (September 1953)
- 18 Tables with Notes on Consumer Expenditure (Fourth Round : April-September 1952)
- 19 Report on Small Scale Manufacture : Household Enterprises smaller than Registered Factories (Seventh Round : October 1953-March 1954)
- 20 Report on Pattern of Consumer Expenditure (Second to Seventh Rounds : April 1951-March 1954)
- 21 Household Small Scale Manufacturing Establishments (Ninth Round : May-November 1955)
- 22 Report on Sample Survey of Manufacturing Industries, 1952
- 23 Report on Sample Survey of Manufacturing Industries, 1953
- 24 Report on Household Retail Trade (Seventh to Ninth Rounds : October 1953-September 1955)
- 25 Sample Verification of Livestock Census, 1956
- 26 A Preliminary Report on Housing Condition (Seventh Round : October 1953-March 1954)
- 27 Technical Records of Sample Design, Instructions to Field Workers and List of Sample Villages and Urban Blocks (Ninth Round : May-November 1955)
- 28 Report on Sample Survey of Manufacturing Industries, 1954 (1)
- 29 Notes on Some Results of the Land Utilisation Survey (Tenth Round : December 1955-May 1956)
- 30 Report on Land Holdings (2) : Operational Holdings in Rural India (Eighth Round : July 1954-April 1955)
- 31 Tables with Notes on Household Transport Operation (Eighth to Tenth Rounds : July 1954-May 1956)
- 32(I) Some Aspects of Costs of Cultivation of Paddy, Wheat, Jowar and Bajra (Fifth to Seventh Rounds : October 1952-March 1954)
- 32(II) Some Aspects of Costs of Cultivation of Barley, Maize, Ragi, Gram, Small Millets, Groundnut, Cotton and Jute (Fifth to Seventh Rounds : October 1952-March 1954)
- 32(III) Some Aspects of Costs of Cultivation of Minor Cereals, Pulses, Sugarcane, Oil Seeds, Potato, Spices and Tobacco (Fifth to Seventh Rounds : October 1952-March 1954)
- 33 Tables with Notes on Wages, Employment, Income and Indebtedness of Agricultural Labour Households in Rural Areas (Eleventh and Twelfth Rounds : August 1956-August 1957)
- 34 Tables with Notes on Employment and Unemployment (Tenth Round : December 1955-May 1956)
- 35 Tables with Notes on Livestock Products (Fifth to Seventh Rounds : April 1952-March 1954)
- 36 Report on Land Holdings (3) : Some Aspects of Ownership Holdings (Eighth Round : July 1954-April 1955)
- 37 Survey of Book Reader's Preference in India (Thirteenth Round : September 1957-May 1958)
- 38 Some Results of the Land Utilisation Survey and Crop-cutting Experiments (Thirteenth Round : September 1957-May 1958)
- 39 Tables with Notes on Consumer Expenditure (Eighth Round : July 1954-March 1955)
- 40 Tables with Notes on Consumer Expenditure (Ninth Round : May-November 1955)
- 41 Household Retail Trade (Tenth Round : December 1955-May 1956)
- 42 Report on Small Scale Manufacture : Household Enterprises smaller than Registered Factories (Seventh to Eighth Rounds : October 1953-April 1955)
- 43 Tables with Notes on Small Scale Manufacture : Household Enterprises smaller than Registered Factories (Ninth and Tenth Rounds : May 1955-May 1956)
- 44 A Note on Profession and Services (Fourth to Eighth Rounds : April 1952-April 1955)
- 45 Report on Indian Villages : A Study of Some Social and Economic Aspects (Tenth to Twelfth Rounds : December 1955-August 1957)
- 46 Tables with Notes on Consumer Expenditure of Agricultural Labour Households in Rural Area (Eleventh and Twelfth Rounds : August 1956-August 1957)
- 47 Tables with Notes on Consumer Expenditure (Tenth Round : December 1955-May 1956)
- 48 Preliminary Estimates of Birth and Death Rates and of the Rate of Growth of Population (Fourteenth Round : July 1958-July 1959)
- 49 Report on Morbidity (Thirteenth Round : September 1957-May 1958)
- 50 Tables with Notes on Housing Condition (Tenth Round : December 1955-May 1956)
- 51 Tables with Notes on Housing Condition (Eleventh Round : August 1956-January 1957)
- 52 Tables with Notes on Employment and Unemployment (Eleventh and Twelfth Rounds : August 1956-August 1957)
- 53 Tables with Notes on Internal Migration (Ninth, Eleventh, Twelfth and Thirteenth Rounds : May 1955-May 1958)
- 54 Vital Rates (Seventh Round : October 1953-March 1954)
- 55 Report on Sample Survey of Manufacturing Industries, 1954 (2) : Exploratory Survey of Scheduled Industries
- 56 Report on Sample Survey of Manufacturing Industries, 1955 (1) : Survey Scheduled Industries
- 57 Report on Sample Survey of Manufacturing Industries, 1955(2)

- 58 Report on Sample Survey of Manufacturing Industries, 1956 (1) : Survey of Scheduled Industries
- 59 Tables with Notes on Pattern of Household Ownership and Possession of Land in Rural Area, 1950-51 to 1953-54 (Eighth Round : July 1954-April 1955)
- 60 Tables with Notes on Farming Condition and Practices in Rural Areas, 1953-54 (Eighth Round : July 1954-April 1955)
- 61 Notes on the Results of the Land Utilisation Survey and Crop-cutting Experiments : (Eleventh Round : August 1956-February 1957)
- 62 Report on Employment and Unemployment (Supplementary) (Ninth Round : May-November 1955)
- 63 Tables with Notes on Employment and Unemployment in Urban Areas (Thirteenth Round : September 1957-May 1958)
- 64 Indian Villages : A Study of Some Social and Economic Aspects (Thirteenth Round : September 1957-May 1958)
- 65 Tables with Notes on Animal Husbandry (Eleventh Round : August 1956-January 1957)
- 66 Report on Land Holdings (4) : Rural Sector, States (Eighth Round : July 1954-April 1955)
- 67 Tables with Notes on Housing Condition (Twelfth Round : March-August 1957)
- 68 Tables with Notes on rural Indebtedness (Eighth Round : July 1954-April 1955)
- 69 Notes on the Results of the Land Utilisation Survey and Crop-cutting Experiments (Twelfth Round : March-August 1957)
- 70 Technical Paper on Sample Design (Fourteenth Round : July 1958-June 1959)
- 71 Consumer Expenditure by Levels of Household Expenditure (Thirteenth Round : September 1957-May 1958)
- 72 Tables with Notes on Milk Production (Twelfth Round : March-August 1957)
- 73 Some Results of the Land Utilisation Survey and Crop-cutting Experiments (Fourteenth Round : July 1958-June 1959)
- 74 Report on Land Holdings (5), Rural Sector (Some Aspects of Operational Holdings—Population Zones and All India) (Eighth Round : July 1954-April 1955)
- 75 Report on Sample Survey of Manufacturing Industries 1956 (2)
- 76 Fertility and Mortality Rates in India (Fourteenth Round : July 1958-June 1959)
- 77 Tables with Notes on Consumer Expenditure (Eleventh Round : August 1956-February 1957)
- 78 Tables with Notes on Consumer Expenditure (Twelfth Round : March-August 1957)
- 79 Some results of the Land Utilisation Survey and Crop-cutting Experiments (Fifteenth Round : July 1959-June 1960)
- 80 Tables with Notes on Consumer Expenditure (Thirteenth Round : September 1957-May 1958)
- 81 Report on Land Holdings : Urban Sector (Eighth Round : July 1954-April 1955)
- 82 Tables with Notes on Some Aspects of Cost of Cultivation of Paddy, Wheat, Barley Maize, Millets, Pulses, Oil Seeds and Vegetables, Urban India (Fifth to Seventh Rounds, 1951-1953)
- 83 Report on Sample Survey of Manufacturing Industries, 1957(1)
- 84 Tables with Notes on Sample Survey of Manufacturing Industries : Survey of Scheduled Industries, 1957
- 85 Tables with Notes on Employment and Unemployment in Urban Areas, (Fourteenth Round : July 1958-June 1959)
- 86 Tables with Notes on Sample Survey of Manufacturing Industries, 1957(2)
- 87 Tables with Notes on Average Budget of Agricultural Labour Households in Rural Areas (Eleventh and Twelfth Rounds : August 1956-August 1957)
- 88 Tables with Notes on Households Receipts and Disbursements : (Fourteenth Round : July 1958-June 1959)
- 89 Tables with Notes on Dwelling Habits of Occupants of the Two-room Government Residences in New Delhi, July 1960
- 90 Tables with Notes of Survey of Scheduled Industries, 1958—Sample Survey of Manufacturing Industries, 1958
- 91 Tables with Notes on the Annual Survey of Industries, 1959 : Sample Sector, Summary Results
- 92 Some Results of Land Utilisation Survey and Crop-cutting Experiments (Sixteenth Round : July 1960-June 1961)
- 93 Tables with Notes on Sample Survey of Manufacturing Industries 1958, Factory Establishments : Summary Results
- 94 Tables with Notes on Small Scale Manufacture : Rural and Urban (Fourteenth Round : July 1958-June 1959)
- 95 Tables with Notes on Household Indebtedness (Sixteenth Round, July 1960-June 1961)
- 96 The Annual Survey of Industries, 1960 : Sample Sector, Summary Results
- 97 Tables with Notes on Capital Formation (Fifteenth Round—Rural : July 1959-June 1960)
- 98 Tables with Notes on Consumer Expenditure (Preliminary) (Fifteenth Round : July 1959-June 1960)
- 99 Tables with Notes on Household Non-Registered Trade (Fifteenth Round : July 1959-June 1960)
- 100 Tables with Notes on Rural Employment and Unemployment (Fourteenth Round : July 1958-June 1959)
- 101 Tables with Notes on Consumer Expenditure (Preliminary) (Sixteenth Round : July 1960-August 1961)
- 102 Tables with Notes on Consumer Expenditure (Fourteenth Round : July 1958-June 1959)
- 103 Tables with Notes on Urban Labour Force (Sixteenth Round : July 1960-June 1961)
- 104 Tables with Notes on Consumer Expenditure (Fifteenth Round : July 1959-June 1960)
- 105 Tables with Notes on Household Non-Mechanised Transport and Utilisation of working Animals (Fifteenth Round : July 1959-June 1960)
- 106 Tables with Notes on Land Utilisation Survey and Crop-cutting Experiments (Seventeenth Round : July 1961-June 1962)
- 107 Tables with Notes on Consumer Expenditure (Eleventh and Twelfth Rounds : August 1956-August 1957)
- 108 Report on the Type study on Consumption and Disposal of Cereals and Capital Formation by Households : 1959-60
- 109 Tables with Notes on Indian Villages (Fourteenth Round : July 1958-June 1959)
- 110 Tables with Notes on Rates of Birth, Death and Growth of Rural Population (Fifteenth Round : July 1959—June 1960)
- 111 Tables with Notes on Sample Survey of Manufacturing Industries, 1958 : Factory Establishments : Detailed Results
- 112 Tables with Notes on Land Utilisation Survey and Crop-Cutting Experiments (Eighteenth Round : July 1962-June 1963)
- 113 Tables with Notes on Agricultural Holdings in Rural India (Sixteenth Round : July 1960-June 1961)
- 114 Tables with Notes on Employment and Unemployment in rural areas (Sixteenth Round : July 1960-June 1961)
- 115 Tables with Notes on disposal of cereals by producer households in rural areas (15th round : July 1959-June 1960)
- 116 Tables with Notes on Family Planning (Sixteenth Round : July 1960-June 1961)
- 117 Tables with Notes on the Enquiry of Physically Handicapped Persons (Sixteenth Round : July 1960-August 1961)
- 118 Tables with Notes on the Annual Survey of Industries, 1961 : Sample Sector, Summary Results
- 119 Special Study on Morbidity (16th Round : November 1960-October 1961)
- 120 Tables with Notes on Annual Survey of Industries, 1962 : Sample Sector, Summary Results
- 121 Preliminary estimates of birth and death rate and of the rates growth of population, (18th round : Feb. 1963-Jan. 1964)
- 122 Tables with Notes on the Annual Survey of Industries, 1959 : Sample Sector (Detailed Results)
- 123 Tables with Notes on the Annual Survey of Industries, 1963 : Sample Sector (Summary Results)
- 124 Some Results of the Land Utilisation Survey and Crop-Cutting Experiments (Eighteenth Round : July 1963-June 1964)
- 125 Technical Paper on Sample Design (Nineteenth Round : July 1964-June 1965)

- 126 Tables with Notes on Internal Migration (Fourteenth Round : July 1958-June 1959, Fifteenth Round : July 1959-June 1960)
- 127* Tables with Notes on Urban Labour Force (Seventeenth Round : September 1961-July 1962)
- 128* Tables with Notes on Internal Migration (rural) (14th Round : July 1958-June 1959)
- 129 Report on Pilot Enquiry on Morbidity (17th Round : September 1961-July 1962)
- 130 Tables with Notes on Professions and Liberal Arts (18th Round : February 1963-January 1964)
- 131* Tables with Notes on the Annual Survey of Industries, 1960 : Sample Sector (Detailed Results)
- 132* Tables with Notes on the Annual Survey of Industries, 1964 : Sample Sector (Summary Results)
- 133* Some Results of the Land Utilisation Survey and Crop-Cutting Experiments (19th Round : July 1964-June 1965)
- 134* Tables with Notes on Income of Rural Labour Households (18th Round : February 1963-January 1964)
- 135* Tables with Notes on Consumer Expenditure (Preliminary) (17th Round : September 1961-July 1962)
- 136* Tables with Notes on Capital Formation (urban) (17th Round : September 1961-July 1962)
- 137* Tables with Notes on Housing Condition (16th Round : July 1960-August 1961)
- 138* Tables with Notes on Consumer Expenditure (16th Round : July 1960-August 1961)
- 139 Tables with Notes on the Annual Survey of Industries, 1961 : Sample Sector (Detailed Results)
- 140* Tables with Notes on some Aspects of Agriculture in India (rural) (11th Round : August 1956-February 1957)
- 141* Tables with notes on Household Consumption of Fuel and Light (18th Round : February 1963-January 1964)
- 142 Tables with Notes on Consumer Expenditure (Preliminary) (18th Round : February 1963-January 1964)
- 143* Tables with Notes on Indebtedness of Scheduled Tribe Households (18th Round : February 1963-January 1964)
- 144 Tables with Notes on some Aspects of Landholdings in Rural Areas (State and All-India Estimates) (17th Round : September 1961-July 1962)
- 145* Tables with Notes on Income of Scheduled Tribe Households (18th Round : February 1963-January 1964)
- 146* Tables with Notes on Housing Condition (15th Round : July 1959-June 1960)
- 147* Some Results of the Land Utilisation Survey and Crop-Cutting Experiments (20th Round : July 1965-June 1966)

NOTE.—Report nos. marked * are under print.