

# THE NATIONAL SAMPLE SURVEY

TWENTYFIRST ROUND  
JULY 1966 JUNE 1967

NUMBER 160

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



*Issued by*

THE CABINET SECRETARIAT : GOVERNMENT OF INDIA

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Supervision of processing work was entrusted to S. S. Bose, S. Das and S. Palit.

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

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

*This report entitled "Some results of the land utilisation survey and crop-cutting experiments, 21st round: July 1966—June 1967" was prepared by the Indian Statistical Institute, Calcutta. The views contained in the report are not necessarily those of the Government of India\*.*

### CHAPTER 1 INTRODUCTION

1.1 As in earlier rounds, in the 21st round of the National Sample Survey (NSS) (1966-67) data on acreage and yield of major cereal crops were collected. Data on acreage and yield were collected for the seven cereal crops viz., rice, jowar, bajra, ragi, maize, wheat and barley, while for small millets no 'yield' but only 'area' survey was conducted. The main objective of the survey was to estimate the production of the seven crops at all-India level for the agricultural year 1966-67. Besides this, the survey was also planned to obtain production figures at state level for important crops by pooling the data, obtained from the Central and State samples†. In addition to the detailed schedules of enquiry, post-card size village summary schedules were also canvassed in one-fourth of the sample villages in order to obtain quick preliminary estimates of production at all-India level.

1.2 *Period of survey.*—The survey started in July 1966 and ended in June 1967.

1.3 *Geographical coverage.*—The survey covered the whole of rural India excepting the North East Frontier Agency, Nagaland, Ladakh district of Jammu and Kashmir, Lungloh sub-division of Mizo Hills (Lushai) in Assam, Mao, Ukhru and Tamenglong sub-divisions of Manipur and the Union Territories of Andaman and Nicobar Islands, Laccadive, Minicoy and Amindivi islands.

1.4 *Sampling design.*—For land utilisation survey a stratified two stage sampling design with an interpenetrating net work of samples (IPNS) was adopted with villages as first stage units and clusters of plots (survey numbers) as second stage units. For yield survey a multistage design was adopted with village, cluster of plots, sub-plots growing specified cereal crops and circular cuts within selected sub-plots as the successive sampling units. The sample villages in each stratum were drawn in the form of four independent samples (called sub-samples). The work of sub-samples 1 and 3 was done by one party of investigators and the work of sub-samples 2 and 4 by another party. Details of the sampling design are given in Appendix I.

1.5 *Number of sample villages for survey.*—8520 sample villages in the form of four sub-samples each of 2130 villages were planned to be surveyed to collect data on acreage in each of the four seasons, autumn, winter, spring and summer. Crop-cutting experiments were planned in half of the village of sub-samples 1 and 2 only, that is in 1065 villages in each of sub-samples 1 and 2 in each season. However, sample villages falling in strata where specified cereal crops of different seasons were believed to be not grown were not surveyed for the corresponding seasons. Hence the number of sample villages actually planned for survey was not the same for all seasons.

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 plots was surveyed in proper time for each of the four seasons autumn, winter, spring and summer. The proper time of visit for land utilisation survey for a particular season was the period when the sowing of the crops of that season was over and harvesting

\*The draft report (No. D. 182) was first submitted by the Indian Statistical Institute, Calcutta to the Government of India in April, 1968. It was revised subsequently and resubmitted in April, 1969.

†Since the 8th round (1954-55) of the National Sample Survey, some of the State Statistical Bureaus (SSB) have been participating in work of the NSS. The samples allotted to the SSBs have been designated as State sample and those to the Directorate of the NSS, as Central sample. Both the samples are selected in identical manner and the same concepts and definitions and procedures are followed in both. In the 21st round the Union Territories of Manipur and Tripura and all the States except West Bengal participated on a full matching basis. The present report gives results of the Central sample only.

had not started, that is when the crops were standing in the field and were identifiable. Data on yield were collected by harvesting a circular area of radius 4' located at random in each sub-plot selected for the purpose. The harvesting was done in two stages first in a circular area of radius 2'3" and then in the remaining annular portion. The yields from the two portions were noted separately. The crop from the circular cuts of radius 2'3" of each sample cut was kept for dryage to obtain the dryage factor for estimating the production of dry crop.

*1.7 Scope of the report.*—The quick preliminary results based on the village summary schedules and also the preliminary results for each season based on the detailed schedules were sent to Government as soon as the tabulation of the data pertaining to each season was completed. For the whole year, that is, for all four seasons taken together, the quick estimates based on village summary schedules were submitted in August 1967 and those based on the detailed schedules in September 1967. The present report gives the results of the tabulation of the detailed schedules in some further detail. Besides the estimates of area and production of all specified cereal crops at all-India level, the report gives the estimates at state level for some selected states and crops. A brief description of the concepts and definitions followed in the survey is given in Chapter 2. The main results of the survey are given in Chapter 3. Chapter 4 gives the season-wise all India estimates of area and production. Some of the statistical tables, including unweighted gross yield rates of crops for pure and mixed crops and irrigated and non-irrigated crops at state level are given in Chapter 5. Appendix I gives details of the sampling design and estimation procedure. Certain strata where specified cereal crops were believed to be not grown were exempted from survey for the corresponding seasons. A list of strata thus exempted is given in Appendix II. Facsimile of the schedules of investigation are given in Appendix III.

## CHAPTER 2

### CONCEPTS AND DEFINITIONS

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

2.2. *Sample village*.—A revenue village corresponding to the sample census village was taken as the sample village for this survey. Generally census villages and revenue villages are identical, but in some cases they are not. If the selected census village was part of a revenue village the entire revenue village was surveyed. If, on the other hand, the census village was comprised of more than one revenue village, one of the revenue villages was selected with equal probability for the purpose of the survey.

2.3. *Season*.—For each of the crops grown in a sample village appropriate season was assigned on the basis of the period of harvesting 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.

<i>normal months of harvesting the crop</i>	<i>season assigned</i>
August to October	autumn
November to January	winter
February to April	spring
May, June	summer

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

When the harvesting of a 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 to the sample village*.—The land utilisation survey was carried out in a village in proper time with respect to cereal and pulse crops for each of the four seasons. The proper time of visit was the period when the sowing of the crops of that season were completed but harvesting had not started. Crop-cutting experiments were conducted when the crop was ripe and ready for harvesting in the selected fields. The sample plots for crop-cutting experiments 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 and Mixed crops*.—When only one crop was grown in a patch of land, it was considered as growing a pure crop. A patch of land growing two or more crops in intermixture was treated as growing a mixed crop. In such cases, the components might be sown or harvested at the same or at different times. Sometimes the different components might be at different stages of growth (e. g. one crop might be harvestable, while the other might just be sprouting up from the ground). When a crop was grown in an orchard in between the plants of an orchard, it was treated as a mixed crop. Also crops grown in alternate strips, each of width less than 8' forming a continuous patch of the crops in the plot, were treated as mixed crops.

2.7. *Sub-plot*.—Within a plot, a distinct patch growing a crop or a particular mixed crop was considered as a sub-plot. Thus a plot had as many sub-plots as there were different patches growing crops singly or in mixture or remaining uncultivated.

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. But some inside ails might be purely temporary ones. If the width of such temporary ails was less than 9" the area under them was recorded under crop area. But if the width was 9" or more the area under them was recorded under ails. The area under ails in a plot was taken to be the sum of half the area under boundary ails and total area under inside ails.

2.9. *Gross area under a crop*.—If a patch of land was under a mixed crop, the total area under the mixed crop was taken as 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. As has been mentioned earlier, the cereal crops covered for survey on acreage and yield were rice, jowar, bajra, ragi, maize, wheat and barley. For small millets only data on acreage were collected and no production figures were obtained. The all-India estimates of production and gross area for the seven crops and the area figures for small millets for the agricultural year 1966-67 are given in this chapter.

3.2. The sampling design both for the land utilisation survey and crop-cutting experiments was such as to make it possible for the survey being conducted in an interpenetrating network of samples. The area survey was conducted in four independent sub-samples of villages with one party surveying villages of sub-samples 1 and 3 and the other party of sub-samples 2 and 4. Sub-samples 1 and 3 formed one half-sample and 2 and 4 the second half-sample. Crop-cutting experiments were conducted in sub-samples 1 and 2 only. The estimates of gross area under crops are given for each of the four sub-samples as well as for the two half-samples. The production estimates for a half-sample is based on the area estimates from that half-sample and the yield rate from the corresponding sub-sample. The difference between the half-sample estimates would give an idea of the margin of uncertainty of the estimates.

3.3. For rice the production figures relate to clean rice. The factor 0.662 has been used to convert production of dry paddy to that of clean rice.

3.4. *Number of sample villages surveyed.*—The number of sample villages surveyed for land utilisation survey and for crop-cutting experiments for each of the four seasons are given in tables (3.1) and (3.2) respectively.

**TABLE (3.1) : NUMBER OF SAMPLE VILLAGES PLANNED AND NUMBER SURVEYED FOR LAND UTILISATION BY SEASONS AND SUB-SAMPLES.  
(ALL INDIA)**

season	number of villages planned per sub-sample*	number of villages surveyed						
		sub-sample						
		1	2	3	4	1& 3 total	2 & 4 total	1-4 total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
autumn .	2130	2036	2011	1991	1940	4027	3951	7978
winter .	1926	1736	1878	1834	1856	3570	3734	7304
spring .	1878	1830	1818	1808	1807	3638	3625	7263
summer .	1168	1022	1012	1012	999	2034	2011	4045

\*excludes sample villages in strata exempted from survey.

**TABLE (3.2) : NUMBER OF SAMPLE VILLAGES SURVEYED AND NUMBER PLANNED FOR CROP-CUTTING EXPERIMENTS FOR EACH SEASON BY SUB-SAMPLES  
(ALL INDIA)**

season	number of villages planned per sub-sample*	number of villages surveyed									
		sub-sample 1			sub-sample 2			total			
		reporting specified cereal crops	not reporting specified cereal crops	total	reporting specified cereal crops	not reporting specified cereal crops	total	reporting specified cereal crops	not reporting specified cereal crops	total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
autumn .	1065	811	216	1027	666	224	890	1477	440	1917	
winter .	963	669	210	879	667	226	893	1336	436	1772	
spring .	939	610	303	913	560	303	863	1170	606	1776	
summer .	584	100	417	517	83	420	505	185	837	1022	

\*excludes sample villages in strata exempted from survey.

Note : Cols. (3) to (11) refer to plots selected for area survey.

**3.5 Number of crop-cutting experiments conducted.**—Table (3.3) gives the number of crop-cutting experiments conducted on each of the seven crops for all the four seasons taken together.

TABLE (3.3) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON EACH OF THE MAJOR CEREAL CROPS SEPARATELY FOR PURE AND MIXED CROPS

(ALL INDIA)

crop	number of crop-cutting experiments conducted								
	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)
paddy	4825	291	5116	4834	275	5109	9659	566	10225
jowar	878	2402	3280	984	2360	3344	1862	4762	6624
bajra	660	1318	1978	710	1340	2050	1370	2658	4028
ragi	758	428	1186	720	374	1094	1478	802	2280
maize	810	1074	1884	668	830	1498	1478	1904	3382
wheat	863	2348	3211	843	2149	2992	1706	4497	6203
barley	91	989	1080	100	897	997	191	1886	2077
total	8885	8850	17735	8859	8225	17084	17744	17075	34819

**3.6 Estimates of production.**—Table (3.4) gives the all-India estimates of production of each of the seven crops for 1966-67 by half-samples.

TABLE (3.4) : ESTIMATES OF PRODUCTION OF EACH OF THE MAJOR CEREAL CROPS BY HALF-SAMPLES 1966-67

(ALL INDIA)

crop	number of crop-cutting experiments conducted			production (000 tonnes)			percentage difference col. (3)—col. (6) $\times 100$		
	sub-sample 1	sub-sample 2	total	half-sample 1	half-sample 2	combined			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
rice	.	.	5116	5109	10225	31209	30020	30613	3.88
jowar	.	.	3280	3344	6624	10504	10869	10685	-4.89
bajra	.	.	1978	2050	4028	4857	4334	4594	11.38
ragi	.	.	1186	1094	2280	1529	1635	1590	-7.92
maize	.	.	1884	1498	3382	5412	5071	5241	6.51
wheat	.	.	3211	2992	6203	12707	14299	13501	-11.79
barley	.	.	1080	997	2077	2687	2707	2697	-0.74
total			17735	17084	34819	68905	68955	68921	-0.02

**3.7 Estimates of gross area under crops.**—Table (3.5) gives the estimates of gross area under eight cereal crops paddy, jowar, bajra, ragi, maize, wheat, barley and small millet by sub-samples.

TABLE (3.5) : ESTIMATES OF GROSS AREA UNDER EACH MAJOR CEREAL CROP BY SUB-SAMPLES  
1966-67

(ALL INDIA)

crop	gross area in (000) hectares								percentage difference, col. (6)—col. (7) × 100 col. (8)	
	sub-sample				half sample 1	half sample 2	sub-sample 1—4 comb			
	1	2	3	4						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
paddy	35400	32433	34954	35727	35176	34080	34627		3.16	
jowar	23138	22110	23849	22049	23495	22080	22789		6.21	
bajra	17442	16926	15517	15757	14680	16342	16412		0.84	
ragi	2642	2807	2589	2669	2616	2737	2687		-4.52	
maize	6045	6442	5874	6337	5960	6390	6176		-6.96	
wheat	15765	16066	14699	15468	15232	15767	15499		-3.45	
barley	3907	4428	4251	3514	4079	3971	4025		2.67	
sub-total	104339	101212	101733	101521	103038	101367	102215		1.63	
small millets	5909	5880	5387	5127	5646	5504	5574		2.55	
total	110248	107092	107120	106648	108684	106871	107789		1.68	

**3.8 Composition of gross area.**—The gross area under a crop is defined as the sum of the area under the crop grown pure and the total area under all mixed crops having the crop as a component. The percentage contribution of the area under each of these categories to the total gross area under the crop is given in table (3.6).

TABLE (3.6) : COMPOSITION OF GROSS AREA UNDER EACH CEREAL CROP 1966-67 ALL INDIA: ALL SUB-SAMPLES COMBINED

crop	estimated gross area (000 hectares)	percentage of area under		
		pure crop	*mixed crop	total
(1)	(2)	(3)	(4)	(5)
paddy	34627	94.81	5.19	100.00
jowar	22789	21.59	78.41	100.00
bajra	16412	28.39	71.61	100.00
ragi	2687	39.82	60.18	100.00
maize	6176	39.66	60.34	100.00
wheat	15499	35.05	64.95	100.00
barley	4025	18.18	81.82	100.00
small millets	5574	47.32	52.68	100.00

**3.9 Comparison of the NSS estimates of production, gross area and yield rates for 1966-67 and 1965-66.**

**3.9.1** Table (3.7) gives the estimates of production, and yield rates of the seven crops for 1965-66 and 1966-67 based on the 20th and 21st rounds of the NSS.

TABLE (3.7) : NSS ESTIMATES OF PRODUCTION AND YIELD RATES OF MAJOR CEREAL CROPS FOR 1965-67 AND 1965-66

(All India)

crop	production (000 tonnes)						percentage difference col. (7)—col. (4) col. (4) × 100	yield rate kilogram/hectares gross area		
	1965-66			1966-67				1965-66	1966-67	
	half-sample 1	half-sample 2	combined	half-sample 1	half-sample 2	combined				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
rice	30507	32182	31344	31209	30020	30613	-2.33	893	884	
jowar	10566	10650	10605	10504	10869	10685	0.75	486	469	
bajra	4309	4838	4576	4857	4334	4594	0.39	313	280	
ragi	1377	1420	1398	1529	1635	1590	13.73	509	592	
maize	5728	6583	6154	5412	5071	5241	-14.84	1018	849	
wheat	12475	11675	12074	12707	14299	13501	11.82	755	871	
barley	2438	2644	2542	2687	2707	2697	6.10	682	670	
total	67400	69994	68693	68905	68955	68921	0.33	x	x	

NOTE : Yield rates are obtained by dividing the estimates of production by the estimates of gross area.

**3.9.2** Table (3.8) gives the NSS estimates of gross area under each of the eight cereal crops for the two years 1965-66 and 1966-67 by half samples.

TABLE (3.8) : NSS ESTIMATES OF GROSS AREA UNDER EACH CEREAL CROP FOR 1965-66 AND 1966-67  
(All India)

crop	gross area in (000) hectares						percentage difference col. (7)—col. (4) col. (4) × 100	
	1965-66			1966-67				
	half sample 1	half sample 2	combined	half sample 1	half sample 2	combined		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
rice	34338	35863	35100	35176	34080	34627	-1.35	
jowar	21200	22479	21839	23495	22080	22789	6.52	
bajra	14704	14557	14630	16480	16342	16412	12.18	
ragi	2482	3012	2747	2616	2737	2687	-2.18	
maize	5958	6138	6047	5960	6390	6176	2.13	
wheat	16115	15877	15996	15232	15767	15499	-3.11	
barley	3669	3790	3730	4079	3971	4023	7.92	
sub-total	.	98466	101716	100089	103038	101367	102215	2.12
small millets	.	4525	5431	4976	5646	5504	5574	12.02
total	.	102991	107147	105065	108684	106871	107789	2.59

*National Sample Survey*

3.10 *Comparison of the NSS and official estimates of production.*—Table (3.9) gives the estimates of production of seven crops obtained from the 20th and 21st rounds of the NSS and the corresponding official estimates for the years 1966-67 and 1965-66.

TABLE (3.9) : COMPARISON OF THE NSS AND OFFICIAL ESTIMATES OF PRODUCTION 1966-67  
AND 1965-66

(ALL INDIA)

crop	NSS estimate		(000 tonnes) percentage difference col. (3)—col.(2) col. (2) × 100	official estimates*		(000 tonnes) percentage difference col. (6)—col. (5) col. (5) × 100	
	20th round (1965-66)	21st round (1966-67)		1965- 66 (partially revised)	1966- 67 (final)		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
rice		31344	30613	-2.33	30655	30440	-0.70
jowar	+	10603	10683	0.75	7527	8944	18.83
bajra	+	4576	4594	0.39	3653	4503	23.20
ragi	+	1328	1590	13.73	1176	1600	36.05
maize	+	6154	5241	-14.84	4760	4991	4.85
wheat	+	12074	13501	11.82	10424	11528	10.59
barley	+	2542	2697	6.10	2377	2449	3.03
total		68693	68921	0.33	60574	64455	6.41

\*Source : Agricultural situation in India.

CHAPTER 4  
SEASONAL ESTIMATES

4.1 The estimates of production and gross area for each of the major cereal crops presented in the previous chapter were the aggregates for the four seasons namely autumn, winter, spring and summer comprising the agricultural year. The data on acreage and yield were obtained separately for each of the four seasons and estimates were obtained for each of the seasons and these estimates when added up would give the figures of production and area for the whole year. These annual estimates have been presented earlier. In this chapter the seasonal estimates are given for all-India.

TABLE (4-1) : ESTIMATES OF PRODUCTION AND GROSS AREA UNDER EACH OF THE MAJOR CEREAL CROPS BY SEASONS 1966-67

(ALL INDIA)

season	production (000 tonnes)			gross area (000 hectares)		
	half-sample 1	half-sample 2	combined	half-sample 1	half-sample 2	combined
(1)	(2)	(3)	(4)	(5)	(6)	(7)
crop : rice						
autumn	5617	6923	6270	7626	9171	8400
winter	20073	19982	20026	24104	22520	23310
spring	4733	2059	3396	2846	1583	2215
summer	786	1056	921	600	804	702
total .	31209	30020	30613	35176	34080	34627
crop : jowar						
autumn	724	1357	1040	3349	2676	3013
winter	5571	5526	5547	13385	12976	13181
spring	4119	3821	3970	6642	6325	6484
summer	90	165	128	119	103	111
total .	10504	10869	10685	23495	22080	22789
crop : bajra						
autumn .	4531	3997	4263	14371	13954	14164
winter	261	287	274	1957	2313	2135
spring	7	2	4	79	23	50
summer .	58	48	53	73	52	63
total .	4857	4334	4594	16480	16342	16412
crop : ragi						
autumn	625	516	570	1092	880	986
winter	683	1012	846	1339	1702	1531
spring	186	106	146	149	131	140
summer .	35	21	28	36	24	30
total .	1529	1655	1590	2616	2737	2687

TABLE (4·1) (contd.) : ESTIMATES OF PRODUCTION AND GROSS AREA UNDER EACH OF THE MAJOR CEREAL CROPS BY SEASONS 1966-67  
(ALL INDIA)

season	production (000 tonnes)			gross area (000 hectares)		
	half-sample 1	half-sample 2	combined	half-sample 1	half-sample 2	combined
(1)	(2)	(3)	(4)	(5)	(6)	(7)
crop : maize						
autumn	5062	4938	5000	5803	6196	6001
winter	27	10	19	35	21	28
spring	308	97	202	75	74	75
summer	15	26	20	47	99	72
total	5412	5071	5241	5960	6390	6176
crop : wheat						
autumn	.	.	.	.	.	.
winter	4	3	3	7	4	5
spring	12619	14266	13442	15128	15673	15400
summer	84	30	56	97	90	94
total	12707	14299	13501	15232	15767	15499
crop : barley						
autumn	.	.	.	.	.	.
winter	.	.	.	.	.	.
spring	2647	2702	2675	4037	3962	4000
summer	40	5	22	42	9	25
total	2687	2707	2697	4079	3971	4025
total of seven crops						
autumn	.	16559	17731	17143	32241	32877
winter	.	26619	26820	26715	40827	39536
spring	.	24619	23053	23835	28956	27773
summer	.	1108	1351	1228	1014	1181
total	.	68905	68955	68921	103038	101367
crop : small millets						
autumn	.	×	×	×	3221	3221
winter	.	×	×	×	2220	2210
spring	.	×	×	×	148	21
summer	.	×	×	×	57	52
total	.	×	×	×	5646	5504
total of eight crops						
autumn	.	×	×	×	35462	36098
winter	.	×	×	×	43047	41746
spring	.	×	×	×	29104	27794
summer	.	×	×	×	1071	1233
total	.	×	×	×	108684	106871
						107789

## CHAPTER 5

### STATISTICAL TABLES

5.1 Some statistical tables relating to the survey are given in this chapter. The number of sample villages planned and number surveyed for land utilisation survey and for crop-cutting experiments are given for each state and season. The number of crop-cutting experiments conducted on each crop separately for pure and mixed crop are given by states and seasons. Tables (11) to (17) give the unweighted yield rates of the seven crops under pure and mixed categories. The yield rates of crops separately for irrigated and non-irrigated crop are given in tables (18) to (24). Tables (25) to (28) give the drainage factors of each of the crops for each season. The estimates of gross area and production at the state level are given in table (29) for some selected states and crops.

5.2. The number of crop-cutting experiments given in tables (11) to (24) may not tally with those on which the production estimates were based because (i) cuts for which irrigation particulars were not available were excluded for calculation of unweighted yield rates while they were included for estimating production (ii) A few schedules which were received very late could not be included for estimating production but were subsequently included for calculation of unweighted yield rates.

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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				number of sample villages surveyed																			
					autumn					winter					spring					summer				
	autumn	winter	spring	summer	ss. 1	ss. 2	ss. 3	ss. 4	total	ss. 1	ss. 2	ss. 3	ss. 4	total	ss. 1	ss. 2	ss. 3	ss. 4	total	ss. 1	ss. 2	ss. 3	ss. 4	total
(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)
1. Andhra Pradesh	168	168	168	156	166	165	167	167	665	164	161	166	163	654	165	166	161	162	654	155	154	155	156	620
2. Assam	90	90			68	79	62	70	279	58	82	58	79	277	..	..	..	..	..	..	..	..	..	..
3. Bihar	192	192	192	132	190	191	191	190	760	189	192	192	191	764	175	156	175	155	661	24	24	24	24	96
4. Punjab	..	..			42	43	42	42	169	5	6	6	5	22	43	44	42	43	172	1	2	2	2	5
Chandigarh	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..
Haryana	96	18	96	18	37	37	36	37	147	..	..	..	..	..	37	37	36	37	147	3	3	2	3	11
Himachal Pradesh					14	15	17	16	62	4	6	6	6	16	15	13	7	14	49	13	13	15	12	53
5. Delhi	6	6	6	6	6	6	6	6	14	..	..	..	..	..	5	6	6	6	23	..	..	..	..	..
6. Goa, Daman & Diu	6	6	6	..	5	5	3	3	16	6	5	..	3	14	6	6	6	6	24	..	..	..	..	..
7. Gujarat	90	90	90	90	90	90	89	89	358	42	88	90	87	307	90	90	90	90	360	89	89	89	90	357
8. Jammu and Kashmir	90	..	30	78	83	76	75	49	283	..	..	..	..	..	27	28	26	17	98	73	69	69	62	273
9. Kerala	90	90	90	90	88	90	90	90	358	90	90	90	90	360	90	90	90	90	360	90	90	89	90	359
10. Madras	156	156	156	150	156	155	156	153	620	155	156	155	153	619	156	154	156	156	622	149	150	150	150	599
11. Madhya Pradesh	180	180	180	18	174	173	170	167	684	179	176	177	176	708	178	176	175	175	704	17	17	17	17	68
12. Maharashtra	174	174	168	48	171	171	170	167	679	174	174	174	174	696	165	167	169	167	668	35	36	35	24	130
13. Manipur	48	48	48	..	45	48	45	48	186	45	48	46	48	187	45	48	45	48	186	..	..	..	..	..
14. Mysore	102	102	102	102	101	101	100	404	101	102	102	101	406	102	102	102	102	408	101	100	100	102	403	
15. Orissa	90	90	42	18	82	73	74	70	299	24	83	85	75	267	42	41	39	42	164	18	17	15	18	68
16. Pudicherry	6	6	6	6	6	4	6	6	22	6	6	..	6	18	6	6	4	6	22	6	6	6	6	24
17. Rajasthan	96	96	96	12	95	96	96	96	383	95	96	96	96	383	96	96	96	96	384	12	12	12	12	48
18. Tripura	48	48	48	38	36	21	26	121	40	38	35	33	142	..	..	..	44	40	41	43	41	168	..	..
19. Uttar Pradesh	264	234	264	64	259	232	252	225	968	232	234	233	234	933	259	261	253	258	1031	57	57	56	55	225
20. West Bengal	138	138	138	138	119	125	121	123	488	127	135	133	136	531	128	131	129	137	525	135	133	136	133	537
21. All-India	2130	1926	1878	1168	2036	2011	1991	1940	7978	1736	1878	1834	1856	7304	1830	1818	1808	1807	7263	1022	1012	1012	999	4045

TABLE (2) : NUMBER OF SAMPLE VILLAGES PLANNED AND NUMBER SURVEYED FOR CROP-CUTTING EXPERIMENTS FOR EACH SEASON BY STATE

National Sample Survey

State (1)	no. of sample villages planned per sub-sample					number of sample villages surveyed											
	autumn				sum- mer	autumn			winter			spring			summer		
	autumn	winter	spring	sum- mer		s.s.1	s.s.2	total	s.s.1	s.s.2	total	s.s.1	s.s.2	total	s.s.1	s.s.2	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	
1. Andhra Pradesh	84	84	84	78	83	75	158	81	71	152	84	80	164	78	78	156	
2. Assam . . .	45	45	..	..	38	33	71	29	39	68	..	..	..	12	12	24	
3. Bihar . . .	96	96	96	66	94	86	180	93	96	189	86	77	163	..	..	..	
4. Chandigarh . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Punjab . . .	48	9	48	9	19	19	38	3	3	6	20	15	35	..	1	1	
Haryana . . .	..	..	..	..	19	6	25	..	..	..	19	17	36	2	1	3	
Himachal Pradesh . . .	..	..	..	..	9	8	17	2	3	5	9	7	16	7	7	14	
5. Delhi . . .	3	..	3	..	3	3	6	..	..	..	2	3	5	..	..	..	
6. Goa, Daman & Diu . . .	3	3	3	..	3	3	6	3	3	6	3	3	6	45	45	90	
7. Gujarat . . .	45	45	45	45	38	83	30	45	75	45	45	90	45	45	90		
8. Jammu and Kashmir . . .	45	..	15	39	41	36	77	..	..	15	11	26	39	34	73		
9. Kerala . . .	45	45	45	45	44	89	45	43	88	45	44	89	45	42	87		
10. Madras . . .	78	78	78	75	78	74	152	78	70	148	78	66	144	74	74	148	
11. Madhya Pradesh . . .	90	90	90	9	85	73	158	89	81	170	88	86	174	9	8	17	
12. Maharashtra . . .	87	87	84	24	86	78	164	87	86	173	81	81	162	17	18	35	
13. Manipur . . .	24	24	24	..	22	16	38	22	24	46	22	24	46	..	..	..	
14. Mysore . . .	51	51	51	51	51	49	100	50	49	99	51	51	102	50	49	99	
15. Orissa . . .	45	45	21	9	44	32	76	16	38	54	20	19	39	9	8	17	
16. Pondicherry . . .	3	3	3	3	3	1	4	3	2	5	3	1	4	3	3	6	
17. Rajasthan . . .	48	48	48	6	48	46	94	48	48	96	48	48	96	6	6	12	
18. Tripura . . .	24	24	..	24	23	20	43	24	17	41	..	..	24	22	46		
19. Uttar Pradesh . . .	132	117	132	32	129	107	236	115	108	223	131	124	235	29	28	57	
20. West Bengal . . .	69	69	69	69	59	43	102	61	67	128	63	61	124	68	69	137	
21. ALL-INDIA	1065	963	939	584	1027	890	1917	879	893	1772	913	863	1776	517	505	1022	

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										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
1. Andhra Pradesh	79	14	93	281	8	289	75		75	87		87	522	22	544	
2. Assam	.	.	13	13	108								121	..	121	
3. Bihar	70	11	81	452	12	464							322	23	345	
4. Delhi																
5. Goa, Daman & Diu	6	..	6	..	..	..	7		7				13	..	13	
6. Gujarat	56	24	80	..	..	..							56	24	80	
7. Haryana	24		24										24		24	
8. Himachal Pradesh	8		8	..	..	..							8		8	
9. Jammu & Kashmir	123		123	..	..	..	..	..	..	..	..		123	..	123	
10. Kerala	186	29	215	190	1	191	50		50	16		16	442	30	472	
11. Madras	162	.	162	156	2	158	240	2	242	105		105	663	4	667	
12. Madhya Pradesh	173	26	199	167	1	168							340	27	367	
13. Maharashtra	.	.	175	16	191	34	1	35	12				221	17	238	
14. Manipur	.	.	7	7	114		114			..			121		121	
15. Mysore	.	.	28	10	38	61	1	62	55		30		30	174	11	185
16. Orissa	.	.	53	53	219		219						..	272		272
17. Pondicherry	5		5	..	..	..	3		3	9		9	17		17	
18. Punjab	32	..	32	..	..	..							32	..	32	
19. Rajasthan	.	.	2	1	3	..	..	..					2	1	3	
20. <del>ra</del>	.	.	82	22	104	112	6	113		6		6	200	23	223	
21. Uttar Pradesh	.	.	326	86	412	267	20	287					593	106	699	
22. West Bengal	.	.	62	2	64	291	1	292		6		6	359	3	362	
23. ALL-INDIA			1672	241	1913	2452	48	2500	442	2	444	259	259	4825	291	5116

TABLE (3-2) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON PADDY GROWN PURE AND MIXED BY SEASONS AND STATES

sub-sample : 2

state	autumn			winter			spring			summer			all seasons			
	pure	mixed	total	pure	mixed	total										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
1. Andhra Pradesh	.	.	74	8	82	273	.	273	110	1	111	91	91	548	9	557
2. Assam	.	.	26	12	38	191	.	391	.					217	12	229
3. Bihar	.	.	72	8	80	452	24	476						524	32	556
4. Delhi	.	.	6		6									6		6
5. Goa, Daman & Diu	.	.	6	..	6	..								6		6
6. Gujarat	.	.	29	18	47	6		6						35	18	53
7. Haryana	.	.	5	.	5	..	..	..						5		5
8. Himachal Pradesh	.	.	20	..	20									20		20
9. Jammu & Kashmir	.	.	127	.	127	.	..	..	..					127		127
10. Kerala	.	.	175	35	210	210	1	211	7	6	13	12	12	404	42	446
11. Madras	.	.	165	..	165	150	..	150	244	2	246	94	94	653	2	655
12. Madhya Pradesh	.	.	173	19	192	175	..	175						348	19	367
13. Maharashtra	.	.	190	30	220	49		49	1	1				240	30	270
14. Manipur	.	.	13		13	118		118						131		131
15. Mysore	.	.	32	2	34	87	8	95	45	45	40	40	40	204	10	214
16. Orissa	.	.	14	1	15	208	1	209			6	6	6	228	2	230
17. Pondicherry	.	.	..	.	..	.	..	..			6	6	6	6	6	6
18. Punjab	.	.	29	..	29	.								29		29
19. Rajasthan	.	.	3	2	5	4	1	5	..	..	..	..	..	7	3	10
20. Tripura	.	.	88	17	105	78		78	..	..	..	..	..	166	17	183
21. Uttar Pradesh	.	.	278	73	351	241	5	246	..	..	..	..	..	519	78	597
22. West Bengal	.	.	56	1	57	349		349		6	6	6	6	411	1	412
23. All-India	1581	226	1807	2591	40	2631	407	9	416	255		255		4834	275	5109

TABLE (3-3) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON PADDY 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									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Andhra Pradesh	453	22	175	554	8	562	185	1	186	178		178	1070	31	1101
2. Assam	39	12	51	229		229							338	12	350
3. Bihar	142	19	161	904	36	940							1046	55	1101
4. Delhi	6		6										6		6
5. Goa, Daman & Diu	12		12				7		7				19		91
6. Gujarat	85	42	127	6		6							91	42	133
7. Haryana	29		29										29		29
8. Himachal Pradesh	28		28	..	..	..				..	..	..	28		28
9. Jammu & Kashmir	250		250	..	..	..							250		256
10. Kerala	361	64	425	400	2	402	57	6	63	28		28	846	72	918
11. Madras	327		327	306	2	308	484	4	488	199		199	1316	6	1322
12. Madhya Pradesh	346	45	391	342	1	343				..	..	..	688	46	734
13. Maharashtra	365	46	411	83	1	84	13		13				461	47	508
14. Manipur	20		20	232		232				..	..	..	252		2
15. Mysore	60	12	72	148	9	157	100		100	70		70	378	21	399
16. Orissa	67	1	68	427	1	428	..			6		6	500	2	502
17. Pondicherry	5		5				3		3	15		15	23		23
18. Punjab	61		61										61		61
19. Rajasthan	5	3	8	4	1	5				..	..	..	9	4	13
20. Tripura	170	39	209	190	1	191				6		6	366	40	406
21. Uttar Pradesh	604	159	763	508	25	533							1112	184	1296
22. West Bengal	118	3	121	640	1	641				12		12	770	4	774
23. All-India	3253	467	3720	5043	88	5131	849	11	860	514		514	9659	566	10225

TABLE (4-1) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON JOWAR GROWN PURE AND MIXED BY SEASONS AND STATES

18

sub-sample : 1

State	autumn			winter			spring			summer			all seasons			
	pure	mixed	total	pure	mixed	total										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
1. Andhra Pradesh	32	116	148	62	104	166	66	56	122	16		16	176	276	452	
2. Assam	..	..	..	..	..	..	..	..	..	..	..	..	2	36	38	
3. Bihar	22	22	44	2	14	16	..	..	..	..	..	..	2	36	38	
4. Delhi	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
5. Goa, Daman & Diu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
6. Gujarat	32	8	40	40	90	130	36	10	46	12	12	120	108	228		
7. Haryana	10	10	20	..	..	..	..	..	..	..	..	..	10	..	10	
8. Himachal Pradesh	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
9. Jammu & Kashmir	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
10. Kerala	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
11. Madras	16	6	22	26	128	154	36	2	38	110	14	124	188	150	338	
12. Madhya Pradesh	2	18	20	32	412	444	..	..	..	..	..	..	34	430	464	
13. Maharashtra	4	8	12	24	414	438	152	218	370	..	..	..	180	640	820	
14. Manipur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
15. Mysore	66	52	118	6	134	140	60	102	162	..	..	..	132	288	420	
16. Orissa	..	..	..	..	10	10	..	..	..	..	..	..	..	10	10	
17. Pondicherry	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
18. Punjab	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
19. Rajasthan	14	48	62	22	86	108	..	..	..	..	..	..	36	134	170	
20. Tripura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
21. Uttar Pradesh	..	14	14	..	316	316	..	..	..	..	..	..	330	330	330	
22. West Bengal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
23. ALL-INDIA	..	176	292	468	214	1708	1922	350	388	738	138	14	152	878	2402	3280

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											
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)		
1. Andhra Pradesh	.	.	30	148	178	64	60	124	64	50	114	24	2	26	182	260	442
2. Assam	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3. Bihar	.	.	6	6	6	10	16	.	.	.	.	.	.	.	6	16	22
4. Delhi	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5. Goa, Daman & Diu	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
6. Gujarat	.	14	12	26	68	48	116	26	.	26	24	.	24	132	60	192	
7. Haryana	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
8. Himachal Pradesh	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
9. Jammu & Kashmir	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10. Kerala	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
11. Madras	.	14	12	26	18	186	204	26	.	26	124	6	130	182	204	386	
12. Madhya Pradesh	.	4	14	18	32	418	450	.	.	.	.	.	.	36	432	468	
13. Maharashtra	.	6	4	10	44	446	490	186	210	396	.	.	.	236	660	896	
14. Manipur	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15. Mysore	.	60	54	114	4	114	118	88	84	172	4	.	4	156	252	408	
16. Orissa	.	.	.	.	.	12	12	.	.	.	.	.	.	12	12	12	
17. Pondicherry	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
18. Punjab	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
19. Rajasthan	.	12	38	50	40	76	116	.	.	.	.	.	.	52	114	166	
20. Tripura	.	.	.	.	2	350	352	.	.	.	.	.	.	2	350	352	
21. Uttar Pradesh	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
22. West Bengal	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
23. All-India	.	.	140	288	428	278	1720	1998	390	344	734	176	8	184	984	2360	3344

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

States	autumn			winter			spring			summer			all seasons			
	pure	mixed	total	pure	mixed	total										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
1. Andhra Pradesh	62	264	326	126	164	290	130	106	236	40	2	42	358	536	894	
2. Assam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
3. Bihar	..	..	..	28	28	56	24	32	56	..	..	..	..	8	52	60
4. Delhi	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Goa, Daman & Diu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Gujarat	46	20	66	108	138	246	62	10	72	36	..	..	36	252	168	420
7. Haryana	10	..	10	..	..	..	..	..	..	..	..	..	..	10	..	10
8. Himachal Pradesh	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. Jammu & Kashmir	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. Kerala	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. Madras	30	18	48	44	314	358	62	2	64	234	20	254	370	354	724	..
12. Madhya Pradesh	6	32	38	64	830	894	..	..	..	..	..	..	70	862	932	..
13. Maharashtra	10	12	22	68	860	928	338	428	766	..	..	..	416	1300	1716	..
14. Manipur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15. Mysore	126	106	232	10	248	258	148	186	334	4	..	..	4	288	540	828
16. Orissa	..	..	..	..	22	22	..	..	..	..	..	..	..	22	22	22
17. Pondicherry	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. Punjab	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. Rajasthan	26	86	112	62	162	224	..	..	..	..	..	..	..	88	248	336
20. Tripura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. Uttar Pradesh	..	..	..	14	14	2	666	668	..	..	..	..	..	2	680	682
22. West Bengal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23. All-India	316	580	896	492	3428	3920	740	732	1472	314	22	336	1862	4762	6624	..

TABLE (5-1) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON BAJRA GROWN PURE AND MIXED BY SEASONS AND STATES.

sub-sample : 1

States (1)	autumn			winter			spring			summer			all seasons			
	pure (2)	mixed (3)	total (4)	pure (5)	mixed (6)	total (7)	pure (8)	mixed (9)	total (10)	pure (11)	mixed (12)	total (13)	pure (14)	mixed (15)	total (16)	
1. Andhra Pradesh	108	94	202	..	18	18	..	..	..	..	..	..	108	112	220	
2. Assam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
3. Bihar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
4. Delhi	18	8	26	..	..	..	..	..	..	..	..	..	18	8	26	
5. Goa, Daman & Diu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
6. Gujarat	96	152	248	..	..	..	..	8	8	52	52	156	152	308	..	
7. Haryana	50	70	120	..	..	..	..	..	..	..	..	..	50	70	120	
8. Himachal Pradesh	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
9. Jammu & Kashmir	4	4	..	..	..	..	..	..	..	..	..	..	4	4	..	
10. Kerala	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
11. Madras	56	86	142	..	24	24	12	12	24	2	2	70	122	192	..	
12. Madhya Pradesh	2	28	30	2	..	2	..	..	..	..	..	..	4	28	32	
13. Maharashtra	100	214	314	2	6	8	..	..	..	..	..	..	102	220	322	
14. Manipur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
15. Mysore	8	30	38	8	40	48	..	..	..	..	..	..	16	70	86	
16. Orissa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
17. Pondicherry	6	2	8	..	..	..	..	..	..	..	..	..	6	2	8	
18. Punjab	22	8	30	..	..	..	..	..	..	..	..	..	22	8	30	
19. Rajasthan	92	234	326	..	..	..	..	..	..	..	..	..	92	234	326	
20. Tripura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
21. Uttar Pradesh	12	146	158	..	146	146	..	..	..	..	..	..	12	292	304	
22. West Bengal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
23. All-INDIA	..	..	..	374	1072	1646	12	234	246	20	12	32	54	660	1318	1978

TABLE (5-2) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED IN BAJRA GROWN PURE AND MIXED BY SEASONS AND STATES

sub-sample : 2

State	autumn			winter			spring			summer			all seasons			
	pure	mixed	total	pure	mixed	total										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
1. Andhra Pradesh	128	144	272	..						2		2	130	144	274	
2. Assam	..									..		..	..	..	..	
3. Bihar	..			..	..	..	..	..	..	..	..	..	..	..	..	
4. Delhi	..			14	2	16	..	..	..	..	..	..	14	2	16	
5. Goa, Daman & Diu	..			..	..	..				..		..	..	..	..	
6. Gujarat	80	178	258	..						44	..	44	124	178	302	
7. Haryana	16	44	60				..	..	..	..	..	..	16	44	60	
8. Himachal Pradesh				..	..	..									..	
9. Jammu & Kashmir	10	16	26	..			..	..	..	..	..	..	10	16	26	
10. Kerala	..			..	..	..	..	..	..	..	..	..	..	..	..	
11. Madras	48	78	126	20	50	70	8	26	34	8		8	84	154	238	
12. Madhya Pradesh	14	18	32	..	..	..							14	18	32	
13. Maharashtra	112	222	334	..	2	2	2		2				114	224	338	
14. Manipur	..	..	..	..	..	..	..	..	..				..	..	..	
15. Mysore	20	30	50	18	54	72	..	..	..				38	84	122	
16. Orissa	..			..	..	..									..	
17. Pondicherry	..	..	..	..			..			..			..	..	..	
18. Punjab	..	32	12	44	..								32	12	44	
19. Rajasthan	122	204	326	..						..	..	..	122	204	326	
20. Tripura	..			..	..	..				..	..	..	..	..	..	
21. Uttar Pradesh	..	12	122	134		138	138			..	..	..	12	260	272	
22. West Bengal																
23. All-India	-	-	608	1070	1678	38	244	282	10	26	36	54	54	710	1340	2050

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									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Andhra Pradesh	236	238	474		18	18				2		2	238	256	494
2. Assam					..	..	..								
3. Bihar					..	..	..								
4. Delhi	32	10	42										32	10	42
5. Goa, Daman & Diu															
6. Gujarat	176	330	506				8		8	96		96	280	330	610
7. Haryana	66	114	180				..	..	..	..	..	..	66	114	180
8. Himachal Pradesh							..	..	..	..	..	..			
9. Jammu & Kashmir	14	16	30							*			14	16	30
10. Kerala							..	..	..	..	..	..			
11. Madras	104	164	268	20	74	94	20	38	58	10		10	154	276	430
12. Madhya Pradesh	16	46	62	2		2	..	..	..				18	46	64
13. Maharashtra	212	436	648	2	8	10	2		2				216	444	660
14. Manipur				..	..	..	..	..	..						
15. Mysore	28	60	88	26	94	120							54	154	208
16. Orissa				..	..	..									
17. Pondicherry	6	2	8										6	2	8
18. Punjab	54	20	74										54	20	74
19. Rajasthan	214	438	652										214	438	652
20. Tripura															
21. Uttar Pradesh	24	268	292	284	284								24	552	576
22. West Bengal							..	..	..						
23. All-India	182	2142	3324	50	478	528	30	38	68	108		108	1370	2658	4028

TABLE (6-1) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON RAGI GROWN PURE AND MIXED BY SEASONS AND STATES

sub-sample : I

State	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Andhra Pradesh	76	22	98		4	4	60	14	74	22		22	158	40	198
2. Assam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Bihar	92	48	140	2		2							94	48	142
4. Delhi	..	..	..												
5. Goa, Daman & Diu	..	..	..												
6. Gujarat	2	2	4	14	14								16	16	
7. Haryana	..	..	..												
8. Himachal Pradesh															
9. Jammu & Kashmir															
10. Kerala	..	..	..												
11. Madras	114	24	138	52	20	72	94	10	104	4		4	264	54	318
12. Madhya Pradesh				..											
13. Maharashtra	6	12	18	40	12	52	..	..	..				46	24	70
14. Manipur	..														
15. Mysore	60	34	94	40	128	168	4		4	28	8	36	132	170	302
16. Orissa	20	6	26	22	2	24							42	8	50
17. Pondicherry	6	..	6	..			6	2	10	6	6	14	8	22	
18. Punjab	..	..	..												
19. Rajasthan	..														
20. Tripura	..														
21. Uttar Pradesh	..	8	60	68									8	60	68
22. West Bengal															
23. ALL-INDIA	382	208	590	156	180	336	166	26	192	54	14	68	758	428	1186

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									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Andhra Pradesh	68	22	90	2	10	12	86	10	96	2	2	2	158	42	200
2. Assam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Bihar	86	20	106	2	2	4	..	..	..	..	..	..	88	22	110
4. Delhi	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Goa, Daman & Diu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Gujarat	2	2	4	2	2	4	..	..	..	..	..	..	4	2	6
7. Haryana	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Himachal Pradesh	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. Jammu & Kashmir	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10. Kerala	2	2	..	..	..	..	..	..	..	..	..	..	2	2	2
11. Madras	136	14	150	30	8	38	76	2	78	32	2	34	274	26	300
12. Madhya Pradesh	..	2	2	2	4	6	..	..	..	..	..	..	2	6	8
13. Maharashtra	14	2	16	34	..	34	..	..	..	..	..	..	48	2	50
14. Manipur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15. Mysore	68	62	130	20	140	160	4	4	4	4	4	4	96	202	298
16. Orissa	22	12	34	2	..	2	..	..	..	..	..	..	24	12	36
17. Pondicherry	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. Punjab	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. Rajasthan	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. Tripura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. Uttar Pradesh	26	58	84	..	..	..	..	..	..	..	..	..	26	58	84
22. West Bengal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23. All-India	422	194	616	94	166	260	166	12	178	38	2	40	720	374	1094

TABLE (6.3) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON RAGI GROWN PURE AND MIXED BY SEASONS AND STATES

26

sub-samples : 1 and 2 combined

National Sample Survey

State (1)	autumn			winter			spring			summer			all seasons			
	pure (2)	mixed (3)	total (4)	pure (5)	mixed (6)	total (7)	pure (8)	mixed (9)	total (10)	pure (11)	mixed (12)	total (13)	pure (14)	mixed (15)	total (16)	
1. Andhra Pradesh	144	44	188	2	14	16	146	24	170	24	24	24	316	82	398	
2. Assam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
3. Bihar	178	68	246	4	2	6	..	..	..	..	..	..	182	70	25	
4. Delhi	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
5. Goa, Daman & Diu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
6. Gujarat	2	2	4	2	16	18	..	..	..	..	..	..	4	18	22	
7. Haryana	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
8. Himachal Pradesh	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
9. Jammu & Kashmir	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
10. Kerala	..	..	..	..	..	..	..	..	..	..	..	..	2	2	2	
11. Madras	250	38	288	82	28	110	170	12	182	36	2	38	538	80	618	
12. Madhya Pradesh	..	2	2	2	4	6	..	..	..	..	..	..	2	6	8	
13. Maharashtra	..	20	14	34	74	12	86	..	..	..	..	..	94	26	120	
14. Manipur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
15. Mysore	..	..	..	128	96	224	60	268	328	8	8	32	8	40	228	
16. Odissa	..	42	18	60	24	2	26	..	..	..	..	..	66	20	86	
17. Pondicherry	..	6	..	6	..	..	8	2	10	..	6	6	14	8	22	
18. Punjab	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
19. Rajasthan	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
20. Tripura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
21. Uttar Pradesh	34	118	152	..	..	..	..	..	..	..	..	..	34	118	152	
22. West Bengal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
23. All-India	..	804	402	1206	250	346	596	382	38	370	92	16	108	1478	802	2280

TABLE (7-1) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON MAIZE GROWN PURE AND MIXED BY SEASONS AND STATES

sub-sample : 1

State (1)	autumn			winter			spring			summer			all seasons		
	pure (2)	mixed (3)	total (4)	pure (5)	mixed (6)	total (7)	pure (8)	mixed (9)	total (10)	pure (11)	mixed (12)	total (13)	pure (14)	mixed (15)	total (16)
1. Andhra Pradesh	50	34	84				18		18				68	34	102
2. Assam		8	8	..	..	..							8	8	8
3. Bihar	118	270	388							2	10	12	120	280	400
4. Delhi	4	4	4	..	..	..							4	4	4
5. Goa, Daman & Diu	..	..	..	..	..	..				..	..	..	..	..	..
6. Gujarat	20	24	44	..	..	..				12		12	32	24	56
7. Haryana	20	6	26	..	..	..							20	6	26
8. Himachal Pradesh	40	24	64										40	24	64
9. Jammu & Kashmir	174	32	206	..	..	..							174	32	206
10. Kerala	..	..	..	..	..	..							14	2	16
11. Madras	10	2	12	4		4									
12. Madhya Pradesh	106	180	286		..	..	..	..	..				106	180	286
13. Maharashtra	8	20	28		2	2	2	2	2	12	12	12	8	36	44
14. Manipur	..			..			..	..	..	..	..	..	..	..	..
15. Mysore	14	12	26				6	2	8	12	2	14	32	16	48
16. Orissa	26	8	34										26	8	34
17. Pondicherry	..	..	..							..	..	..	..	..	..
18. Punjab	80	10	90										80	10	90
19. Rajasthan	24	146	170	..									24	146	170
20. Tripura	..	..	..	..											
21. Uttar Pradesh	52	268	320	..	..	..	..	..	..	2		2	54	268	322
22. West Bengal	8	8	16	..	..	..							8	8	16
23. All-India	754	1044	1798	4	2	6	24	4	28	28	24	52	810	1074	1884

TABLE (7-2) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON MAIZE GROWN PURE AND MIXED BY SEASONS AND STATES

28

sub-sample : 2

National Sample Survey

State	autumn			winter			spring			summer			all seasons					
	pure	mixed	total	pure	mixed	total												
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)			
1. Andhra Pradesh	.	20	30	50			20		20				40	30	70			
2. Assam	.	12		12						..	..	..	12		12			
3. Bihar		130	218	348						6	6	12	136	224	360			
4. Delhi	.																	
5. Goa, Daman & Diu	.	.	.	..	..	..	..	..	..				..	..	..			
6. Gujarat	.	.	.	10	24	34				12		12	22	24	46			
7. Haryana	.	.	.	2	0	2							2	0	2			
8. Himachal Pradesh	.	.	.	20	36	56							20	36	56			
9. Jammu & Kashmir	.	.	.	118	22	140							118	22	140			
10. Kerala	.	.	.	..	..	..				..	..	..	..	..	..			
11. Madras	.	.	.	4	4	8							4	4	8			
12. Madhya Pradesh	.	.	.	100	150	250	.	..	.	6	6		100	156	256			
13. Maharashtra	.	.	.	10	2	12				..	..	..	10	2	12			
14. Manipur	.	.	.	..	..	..							..	..	..			
15. Mysore	.	.	.	12		12				4	4	8	2	18	42			
16. Orissa	.	.	.	12	.	12	..	..	..				12		12			
17. Pondicherry	.	.	.	..	.	.				..	..	..						
18. Punjab	.	.	.	106	2	108	..	..	..	..	..	..	106	2	108			
19. Rajasthan	.	.	.	28	138	166				..	..	..	28	138	166			
20. Tripura	.	.	.	..	..	..	..	..	..	..	..	..	..	..	..			
21. Uttar Pradesh	.	.	.	34	186	220	2	2					34	188	222			
22. West Bengal	.	.	.	6	6	..	.	.	.	..	..	..	6	..	6			
23. All-India	.	.	.	624	812	1436	.	2	2	24	10	34	20	6	26	668	830	1498

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 (1)	autumn			winter			spring			summer			all seasons				
	pure (2)	mixed (3)	total (4)	pure (5)	mixed (6)	total (7)	pure (8)	mixed (9)	total (10)	pure (11)	mixed (12)	total (13)	pure (14)	mixed (15)	total (16)		
1. Andhra Pradesh	.	.	70	64	134				38		..	..	108	64	172		
2. Assam	.	.	12	8	20	..			..	..	..	..	12	8	20		
3. Bihar	.	.	248	488	736	..	..			8	16	24	256	504	760		
4. Delhi	.	.	4		4								4		4		
5. Goa, Daman & Diu	.	.	..	..	..				..	..	..	..	..	..	..		
6. Gujarat	.	.	30	48	78	..	..	..	24		24	24	54	48	102		
7. Haryana	.	.	22	6	28	..	..	..	..	..	..	..	22	6	28		
8. Himachal Pradesh	.	.	60	60	120	..							60	60	120		
9. Jammu & Kashmir	.	.	292	54	346								292	54	346		
10. Kerala	.	.	..	..	..	..			..	..	..	..	..	..	..		
11. Madras	.	.	14	6	20	4		4	..	..	..	..	18	6	24		
12. Madhya Pradesh	.	.	206	330	536				6	6			206	330	536		
13. Maharashtra	.	.	18	22	40	..	2	2	2	2	12	12	18	38	56		
14. Manipur	.	.	..	..	..	..			..	..	..	..	..	..	..		
15. Mysore	.	.	26	12	38	..	..	10	6	16	14	2	16	50	20	70	
16. Odissa	.	.	38	8	46								38	8	46		
17. Pondicherry	.	.	..	..	..	..							..	..	..		
18. Punjab	.	.	186	12	198	..	..	..					186	12	198		
19. Rajasthan	.	.	52	284	336								52	284	336		
20. Tripura	.	.	..	..	..	..							..	..	..		
21. Uttar Pradesh	.	.	86	454	540	2	2		2	..	2	88	456	544			
22. West Bengal	.	.	14		14								14				
23. All-India	.	.	1378	1856	3234	4	4	8	48	14	62	48	30	78	1478	1904	3382

TABLE (8.1) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON WHEAT GROWN PURE AND MIXED BY SEASONS  
AND STATES

5

sub-sample : 1

State	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Andhra Pradesh	..	..	..				9	12	21				9	12	21
2. Assam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Bihar							83	356	439				83	356	439
4. Delhi							3	18	21				3	18	21
5. Goa, Daman & Diu	..	..	..	..	..	..	..	..	..				..	..	..
6. Gujarat							133	20	153				133	20	153
7. Haryana							56	42	98	.	.	.	56	42	98
8. Himachal Pradesh							27	18	45	2	.	2	29	18	47
9. Jammu & Kashmir							46	12	58	35	2	37	81	14	95
10. Kerala	..	..	..	..	..	..	..	..	..				..	..	..
11. Madras				..	..	..	2	2	4				2	2	4
12. Madhya Pradesh				..	..	..	133	312	445				133	312	445
13. Maharashtra							138	138	276				138	138	276
14. Manipur				..	..	..	6	..	6				6	..	6
15. Mysore							5	44	49				5	44	49
16. Odissa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. Pondicherry				..	..	..	..	..	..	..	..	..	..	..	..
18. Punjab				..	..	..	65	94	159				65	94	159
19. Rajasthan							63	184	247				63	184	247
20. Tripura				..	..	..	..	..	..				..	..	..
21. Uttar Pradesh							54	1094	1148				54	1094	1148
22. West Bengal							5	5	5				5	5	5
23. All-India							826	2346	3172	37	2	39	863	2348	3211

Number of Sub-sample Survey

sub-sample : 2

TABLE (8.2) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON WHEAT GROWN PURE AND MIXED BY SEASONS AND STATES

State	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Andhra Pradesh	.	.	.	2	2	9	6	15	.	.	.	.	9	8	17
2. Assam	.	.	.	.	.	..	.	.	.	..	.	..	..	..	..
3. Bihar	.	.	.	.	74	346	420	.	.	.	.	74	346	420	.
4. Delhi	.	.	.	.	9	10	19	.	.	.	9	10	19	.	.
5. Goa, Daman & Diu	.	.	.	.	..	.	.	.	.	..	.	..	.	..	.
6. Gujarat	.	.	.	.	125	12	137	.	.	..	125	12	137	.	.
7. Haryana	.	.	.	.	41	32	73	.	.	..	41	32	73	.	.
8. Himachal Pradesh	.	.	.	.	36	4	40	..	.	..	36	4	40	.	.
9. Jammu & Kashmir	.	.	.	.	38	26	64	26	.	26	64	26	90	.	.
10. Kerala	.	.	.	..	..	..	..	..	..	..	..	..	..	..	.
11. Madras	.	.	.	.	..	..	..	.	.	.	.	.	.	.	.
12. Madhya Pradesh	.	.	.	.	131	288	419	.	.	131	288	419	.	.	.
13. Maharashtra	.	.	.	.	139	128	267	.	.	139	128	267	.	.	.
14. Manipur	.	.	.	.	6	6	.	.	.	6	6	.	6	6	.
15. Mysore	.	.	.	.	19	16	35	.	.	19	16	35	.	.	.
16. Orissa	.	.	.	.	..	..	..	..	.	..	..	..	..	..	.
17. Pondicherry	.	.	.	.	..	..	..	..	.	..	..	..	..	..	.
18. Punjab	.	.	.	.	49	64	113	.	.	49	64	113	.	.	.
19. Rajasthan	.	.	.	.	57	164	221	..	..	57	164	221	.	.	.
20. Tripura	.	.	.	.	..	..	..	..	.	..	..	..	..	..	.
21. Uttar Pradesh	.	.	.	.	59	1033	1092	9	12	21	68	1045	1113	.	.
22. West Bengal	.	.	.	.	16	6	22	.	.	16	6	22	.	.	.
23. ALL-INDIA	.	.	.	.	2	2	808	2135	2943	35	12	47	843	2149	2992

TABLE (8.3) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON WHEAT GROWN PURE AND MIXED BY SEASONS  
AND STATES

3

sub-samples : 1 & 2 combined

State	autumn			winter			spring			summer			all seasons		
	pure	mixed	total	pure	mixed	total									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Andhra Pradesh	2	2	18	18	36					18	20	38			
2. Assam	..			..	..								..		
3. Bihar				157	702	859	..			157	702	859			
4. Delhi	..			12	28	40				12	28	40			
5. Goa, Daman & Diu	..	..	..	..	..		..	..	..	..	..	..	..	..	..
6. Gujarat	..			258	32	290	..			258	32	290			
7. Haryana	..			97	74	171	..			97	74	171			
8. Himachal Pradesh	..			63	22	85	2			2	65	22	87		
9. Jammu & Kashmir	..			84	38	122	61	2	63	145	40	185			
10. Kerala				..			..			..			..		
11. Madras				..			2	2		..			2	2	
12. Madhya Pradesh				264	600	864				264	600	864			
13. Maharashtra				277	266	543				277	266	543			
14. Manipur	..			12	..	12				12	..	12			
15. Mysore				24	60	84				24	60	84			
16. Orissa							..	..	..	..	..	..	..	..	..
17. Pondicherry							..								
18. Punjab				114	158	272	..	..	..	114	158	272			
19. Rajasthan				120	348	468	..			120	348	468			
20. Tripura	..	..	..	..	..					..	..		..		
21. Uttar Pradesh				113	2127	2240	9	12	21	122	2139	2261			
22. West Bengal				21	6	27				21	6	27			
23. All-India				2	2	1634	4481	6115	72	14	86	1706	4497	6203	

All-India Sub-samples Survey

TABLE (9.1) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON BARLEY GROWN PURE AND MIXED BY SEASONS AND STATES

sub-sample : I

State	autumn			winter			spring			summer			all seasons			
	pure	mixed	total	pure	mixed	total										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
1. Andhra Pradesh			--										--	--	--	
2. Assam	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
3. Bihar	--	--	--	--	--	--	22	232	254				22	232	254	
4. Delhi			--	--	--	--	3	10	13	--			3	10	13	
5. Goa, Daman & Diu	--	--	--	--	--	--	--	--	--				--	--	--	
6. Gujarat	--	--	--	--	--	--	1	--	1				1	--	1	
7. Haryana	--	--	--	--	--	--	17	14	31				17	14	31	
8. Himachal Pradesh	--	--	--	--	--	--	3	--	3	4	--		4	7	7	
9. Jammu & Kashmir	--	--	--	--	--	--	2	--	2	1	--		1	3	3	
10. Kerala	--	--	--										--	--	--	
11. Madras	--	--	--	--	--	--	--	--	--				5	--	--	
12. Madhya Pradesh			--	--	--	--	--	5	38	43			5	38	43	
13. Maharashtra	--	--	--										--	--	--	
14. Manipur	--	--	--	--	--	--	--	--	--				--	--	--	
15. Mysore	--	--	--	--	--	--	--	--	--				--	--	--	
16. Orissa							--	--	--				--	--	--	
17. Pondicherry							--	--	--				--	--	--	
18. Punjab							--	1	2	3			1	2	3	
19. Rajasthan							--	28	130	158			28	130	158	
20. Tripura				--	--	--	--	--	--				--	--	--	
21. Uttar Pradesh				--	--	--	--	2	523	525			2	523	525	
22. West Bengal				--	--	--	--	2	40	42			2	40	42	
23. All-India				--	--	--	--	86	989	1075	5		5	91	989	1080

TABLE (9-2) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON BARLEY GROWN PURE AND MIXED BY SEASONS  
AND STATES

52

sub-sample : 2

State	autumn			winter			spring			summer			all seasons				
	pure	mixed	total	pure	mixed	total											
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)		
1. Andhra Pradesh	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
2. Assam	.	.	.	..	..	..	..	..	..	..	..	..	16	182	198		
3. Bihar	.	.	.	..	..	..	..	..	..	16	182	198	.	.	.		
4. Delhi	.	.	.	..	..	..	..	..	..	1	1	1	.	.	1		
5. Goa, Daman & Diu	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
6. Gujarat	.	.	.	..	..	..	..	..	..	2	2	2	.	2	2		
7. Haryana	.	.	.	..	..	..	..	..	25	10	35	.	25	10	35		
8. Himachal Pradesh	.	.	.	..	..	..	..	..	..	.	.	.	.	.	.		
9. Jammu & Kashmir	.	.	.	.	.	.	.	1	2	3	5	5	6	2	8		
10. Kerala	.	.	.	..	..	..	..	..	..	..	..	..	..	..	..		
11. Madras	.	.	.	.	.	.	..	..	..	..	..	..	3	38	41		
12. Madhya Pradesh	.	.	.	..	..	..	..	..	3	38	41	.	3	38	41		
13. Maharashtra	.	.	.	..	..	..	..	..	2	2	2	.	2	2	.		
14. Manipur	.	.	.	..	..	..	..	..	..	..	..	..	..	..	..		
15. Mysore	.	.	.	..	..	..	..	..	..	..	..	..	..	..	..		
16. Orissa	.	.	.	..	..	..	..	..	..	..	..	..	..	..	..		
17. Pondicherry	.	.	.	..	..	..	..	..	..	..	..	..	..	..	..		
18. Punjab	.	.	.	..	..	..	..	..	5	10	15	.	5	10	15		
19. Rajasthan	.	.	.	..	..	..	..	..	30	110	140	.	30	110	140		
20. Tripura	.	.	.	..	..	..	..	..	..	..	..	..	..	..	..		
21. Uttar Pradesh	.	.	.	..	..	..	..	..	10	509	519	1	2	3	11	511	522
22. West Bengal	.	.	.	..	..	..	..	..	3	30	33	.	3	30	33		
23. All-India	..	..	..	..	..	..	94	895	989	6	2	8	100	897	997		

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									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Andhra Pradesh		..	..												..
2. Assam															
3. Bihar							38	414	452				38	414	452
4. Delhi							4	10	14				4	10	14
5. Goa, Daman & Diu.							..	..	..				..	..	..
6. Gujarat		..	..	..			1	2	3				1	2	3
7. Haryana							42	24	66				42	24	66
8. Himachal Pradesh							3	..	3	4			4	7	7
9. Jammu & Kashmir							3	2	5	6			6	9	11
10. Kerala		..	..	..											..
11. Madras															..
12. Madhya Pradesh							8	76	84				8	76	84
13. Maharashtra								2	2					2	2
14. Manipur															
15. Mysore															
16. Orissa		..	..	..	..	..									..
17. Pondicherry							..	..	..	..	..	..			..
18. Punjab							6	12	18				6	12	18
19. Rajasthan		..	..	..	..	..	58	240	298				58	240	298
20. Tripura		..	..	..											
21. Uttar Pradesh		..					12	1032	1044	1	2	3	13	1034	1047
22. West Bengal							5	70	75				5	70	75
23. All-India							180	1884	2064	11	2	13	191	1886	2077

TABLE (10-1) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON MAJOR CEREAL 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									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Andhra Pradesh	345	280	625	343	134	477	228	82	310	125		125	1041	496	1537
2. Assam . .	13	8	21	108	..	108	-	..	..	-	..	..	121	8	129
3. Bihar .	280	351	631	456	26	482	105	588	693	2	10	12	843	975	1818
4. Delhi .	22	8	30	..	..	..	6	28	34				28	36	64
5. Goa, Daman & Diu	6	..	6	..	..	..	7		7	.	.	.	13		13
6. Gujarat . .	204	210	414	40	104	144	178	30	208	76		76	498	344	842
7. Haryana . .	104	76	180				73	56	129	.		..	177	132	309
8. Himachal Pradesh	48	24	72				30	18	48	6	.	6	84	42	126
9. Jammu & Kashmir .	301	32	333				48	12	60	36	2	38	385	46	431
10. Kerala .	186	29	215	190	1	191	50		50	16		16	442	30	472
11. Madras .	358	118	476	238	174	412	382	28	410	221	14	235	1199	334	1533
12. Madhya Pradesh .	283	252	535	201	413	614	138	350	488				622	1015	1637
13. Maharashtra	293	270	563	100	435	535	302	358	660		12	12	695	1075	1770
14. Manipur .	7	..	7	114		114	6	-	6	..			127	..	127
15. Mysore . .	176	138	314	115	303	418	130	148	278	70	10	80	491	599	1090
16. Orissa . .	99	14	113	241	12	253				.	.		340	26	366
17. Pondicherry .	17	2	19				11	2	13	9	6	15	37	10	47
18. Punjab .	134	18	152	..	..	..	66	96	162				206	114	314
19. Rajasthan	132	429	561	22	86	108	91	314	405	.	.	.	245	829	1074
20. Tripura . .	82	22	104	112	1	113				6		6	200	23	223
21. Uttar Pradesh . .	398	574	972	267	482	749	56	1617	1673	2	2	2	723	2673	3396
22. West Bengal	70	2	72	291	1	292	7	40	47	6		6	374	43	417
23. All-India . . . .	3558	2857	6415	2838	2172	5010	1914	3767	5681	575	54	629	8885	8850	17735

TABLE (10-2) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON MAJOR CEREAL 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										
		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
1. Andhra Pradesh		320	352	672	339	72	411	289	67	356	119	2	121	1067	493	1560	
2. Assam	.	38	12	50	191	..	191	..	..	..	..	..	..	229	12	241	
3. Bihar	.	288	252	540	460	36	496	90	528	618	6	6	12	844	822	1666	
4. Delhi	.	20	2	22				10	10	20				30	12	42	
5. Goa, Daman & Diu	.	6	..	6	..			..	..		..	..		6	..	6	
6. Gujarat		135	232	367	76	50	126	151	14	165	80		80	442	296	738	
7. Haryana	.	23	44	67	..			66	42	108	..			89	86	175	
8. Himachal Pradesh	.	40	36	76	..			36	4	40				..	76	40	116
9. Jammu & Kashmir	.	255	38	293			..	39	28	67	31		31	325	66	391	
10. Kerala		175	37	212	210	1	211	7	6	13	12		12	404	44	448	
11. Madras	.	367	108	475	218	244	462	354	30	384	258	8	266	1197	390	1587	
12. Madhya Pradesh		291	203	494	209	422	631	134	332	466				634	957	1591	
13. Maharashtra	.	332	260	592	127	448	575	328	340	668				787	1048	1835	
14. Manipur	.	13	13	118	118	6	..	..	6	..	..			137	..	137	
15. Mysore		192	148	340	129	316	445	160	104	264	50		50	531	568	1099	
16. Orissa	.	48	13	61	210	13	223	..	..		6			6	264	26	290
17. Pondicherry	.	..			..			..	..		..			6	6	..	6
18. Punjab	.	167	14	187	..	..		54	74	128				..	221	88	309
19. Rajasthan	.	165	382	547	44	77	121	87	274	361				296	733	1029	
20. Tripura	.	88	17	105	78	..	78	..	..	..				24	166	17	183
21. Uttar Pradesh	.	350	439	789	243	495	738	69	1542	1611	10	14	6	672	2490	3162	
22. West Bengal	.	62	1	63	349	..	349	19	36	55	6			436	37	473	
23. All-India	.	3375	2590	5965	3001	2174	5175	1899	3431	5330	584	30	614	8859	8225	17084	

TABLE (10-3) : NUMBER OF CROP-CUTTING EXPERIMENTS CONDUCTED ON MAJOR CEREAL CROPS GROWN PURE AND  
MIXED BY SEASONS AND STATES

35

sub-samples : 1 & 2 combined

State	autumn			winter			spring			summer			all seasons					
	pure	mixed	total	pure	mixed	*total												
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)			
1. Andhra Pradesh	665	632	1297	682	206	888	517	149	666	244	2	246	2108	989	3097			
2. Assam	51	20	71	299	299	..	..	..	..	..	..	..	350	20	370			
3. Bihar	568	603	1171	916	62	978	195	1116	1311	8	16	24	1687	1797	3484			
4. Delhi	42	10	52	..	..	..	16	38	54	..	..	..	58	48	106			
5. Goa, Daman & Diu	12	..	12	..	..	..	7	..	7	..	..	..	19	..	19			
6. Gujarat	339	442	781	116	154	270	329	44	373	156	..	156	940	640	1580			
7. Haryana	127	120	247	..	..	..	139	98	237	..	..	..	266	218	484			
8. Himachal Pradesh	88	60	148	..	..	..	66	22	88	6	..	6	160	82	242			
9. Jammu & Kashmir	556	70	626	..	..	..	87	40	127	67	2	69	710	112	822			
10. Kerala	361	66	427	400	2	402	57	6	63	28	..	28	846	74	920			
11. Madras	725	226	951	456	418	874	736	58	794	479	22	501	2396	724	3120			
12. Madhya Pradesh	574	455	1029	410	835	1245	272	682	954	..	..	..	1256	1972	3228			
13. Maharashtra	625	530	1155	227	883	1110	630	698	1328	..	12	12	1482	2123	3605			
14. Manipur	20	..	20	232	..	232	12	..	12	..	..	..	264	264	264			
15. Mysore	368	286	654	244	619	863	290	252	542	120	10	130	1022	1167	2189			
16. Orissa	147	27	174	451	25	476	..	..	..	6	..	6	604	52	656			
17. Pondicherry	17	2	19	..	..	..	11	2	13	15	6	21	43	10	53			
18. Punjab	301	32	333	..	..	..	120	170	290	..	..	..	421	202	623			
19. Rajasthan	297	811	1108	66	163	229	178	588	766	..	..	..	541	1562	2103			
20. Tripura	170	39	209	190	1	191	..	..	..	6	..	6	366	40	406			
21. Uttar Pradesh	748	1013	1761	510	977	1487	125	3159	3284	12	14	26	1395	5163	6558			
22. West Bengal	132	3	135	640	1	641	26	76	102	12	..	12	810	80	890			
23. All-India	..	..	..	6933	5447	12380	5839	4346	10185	3813	7198	11011	1159	84	1243	17744	17075	34819

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TABLE (11) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF CROPS GROWN PURE AND MIXED BY STATES AND SUB-SAMPLES

CROP : Rice

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined					
	pure		mixed		combined		pure		mixed		combined		pure		mixed		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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1. Andhra Pradesh	522	1322	22	292	544	1297	548	1322	9	174	557	1307	1070	1322	31	638	1101	1302
2. Assam	121	1082	..	..	121	1082	217	1067	12	160	229	1033	338	1072	12	395	350	1050
3. Bihar	522	487	23	286	545	497	524	492	32	179	556	489	1046	489	55	553	1101	492
4. Delhi	..	..	..	..	..	..	6	865	..	..	6	865	6	865	..	..	6	865
5. Goa, Daman, Diu	13	1023	..	..	13	1023	6	806	..	..	6	806	19	956	..	..	19	956
6. Gujarat	56	652	24	140	80	561	35	675	18	305	53	702	91	660	42	521	133	618
7. Haryana	24	1053	..	..	24	1053	5	1656	..	..	5	1656	29	1156	..	..	29	1156
8. Himachal Pradesh	8	1206	..	..	8	1206	20	954	..	..	20	954	28	1025	..	..	28	1025
9. Jammu & Kash- mir	123	1925	..	..	123	1925	127	2128	..	..	127	2128	250	2026	..	..	250	2026
10. Kerala	442	1107	30	178	472	1112	404	1134	42	242	446	1085	846	1119	72	531	918	1075
11. Madras	663	1396	4	258	667	1391	659	1428	2	1096	661	1431	1322	1411	6	1327	1328	1411
12. Madhya Pradesh	340	457	27	79	367	437	348	450	19	95	367	437	688	452	46	213	734	437
13. Maharashtra	221	719	17	166	238	697	240	830	30	165	270	783	461	776	47	410	508	741
14. Manipur	121	1465	..	..	121	1465	131	1423	..	..	131	1423	252	1443	..	..	252	1443
15. Mysore	174	1109	11	333	185	1092	204	1114	10	307	214	1100	378	1112	21	791	399	1092
16. Orissa	272	877	..	..	272	877	228	969	2	106	230	961	500	919	2	262	502	917
17. Pondicherry	17	1774	..	..	17	1744	6	2308	..	..	6	2308	23	1913	..	..	23	1913
18. Punjab	32	1107	..	..	32	1107	29	993	..	..	29	993	61	1053	..	..	61	1055
19. Rajasthan	2	235	1	39	3	190	7	89	3	9	10	69	9	124	4	42	13	99
20. Tripura	200	1016	23	236	223	971	166	1082	17	375	183	1067	366	1045	40	729	406	1013
21. Uttar Pradesh	593	430	106	152	699	423	519	514	78	180	597	507	1112	469	184	405	1296	460
22. West Bengal	359	1169	3	359	362	1169	411	1008	1	134	412	1011	770	1082	4	749	774	1082
23. All-India	4825	971	295	186	5116	941	4840	998	275	210	5115	974	9665	986	566	487	10231	956

TABLE (12) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF CROP GROWN PURE AND MIXED BY STATES AND SUB-SAMPLES

Crop : JOWAR

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined						
	pure		mixed		combined		pure		mixed		combined		pure		mixed		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	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	
1. Andhra Pradesh	.	176	435	276	299	452	361	182	781	260	277	442	484	358	620	536	289	894	423
2. Assam	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
3. Bihar	.	2	213	36	153	38	156	6	487	16	141	22	235	8	418	52	148	60	183
4. Delhi	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
5. Goa, Daman & diu	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
6. Gujarat	.	120	699	108	472	228	487	132	1067	60	1075	192	1070	252	796	168	687	420	751
7. Haryana	.	10	351	..	..	10	351	..	..	..	..	..	..	10	351	..	..	10	351
8. Himachal Pradesh	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
9. Jammu & Kashmir	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
10. Kerala	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
11. Madras	.	182	704	150	341	338	544	182	1253	204	138	386	665	370	974	354	225	724	608
12. Madhya Pradesh	.	23	161	430	368	464	353	36	363	432	425	468	425	70	264	862	398	932	388
13. Maharashtra	.	180	899	640	529	820	610	236	660	660	578	896	600	416	764	1300	553	1716	605
14. Manipur	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
15. Mysore	.	132	499	288	403	420	432	156	499	252	442	408	465	288	499	540	420	828	447
16. Orissa	.	..	..	10	526	10	526	..	..	12	432	12	432	..	..	22	474	22	474
17. Pondicherry	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
18. Punjab	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
19. Rajasthan	.	36	213	134	319	170	297	52	294	114	413	166	376	88	262	248	361	336	336
20. Tripura	.	..	..	330	267	330	367	2	210	350	316	352	316	2	210	680	292	682	292
21. Uttar Pradesh	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
22. West Bengal	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
23. All-India.	878	588	2402	390	3280	442	984	788	2360	427	3344	534	1862	694	4762	410	489		

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TABLE (13) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF CROP GROWN PURE AND MIXED BY STATES AND SUB-SAMPLES

CROP : BAJRA

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined					
	pure		mixed		combined		pure		mixed		combined		pure		mixed		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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1. Andhra Pradesh .	108	707	112	304	220	502	130	521	144	252	274	381	238	605	256	274	494	435
2. Assam .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
3. Bihar .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
4. Delhi .	18	425	8	383	26	413	14	954	2	136	16	852	32	657	10	334	42	581
5. Goa, Daman & Dgo .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
6. Gujarat .	156	657	152	610	308	635	124	724	178	415	302	541	280	687	330	504	610	588
7. Haryana .	50	596	70	697	120	655	16	195	44	264	60	247	66	499	114	529	180	519
8. Himachal Pradesh .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
9. Jammu & Kashmir .	4	0	..	..	4	0	10	222	16	356	26	304	14	158	16	356	30	264
10. Kerala .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
11. Madras .	70	445	122	282	192	341	84	393	154	131	238	225	154	418	276	198	430	277
12. Madhya Pradesh .	4	205	28	583	32	536	14	474	18	662	32	581	18	415	46	615	64	558
13. Maharashtra .	102	393	220	245	322	292	114	351	224	306	338	321	216	371	444	277	660	306
14. Manipur .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15. Mysore .	16	153	70	133	86	136	38	282	84	126	122	173	54	242	154	128	208	158
16. Orissa .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17. Pondicherry .	6	657	2	166	8	536	.	.	.	.	.	.	6	657	2	166	8	536
18. Punjab .	22	914	8	128	30	704	32	815	12	798	44	810	54	855	20	531	74	768
19. Rajasthan .	92	410	234	250	326	294	122	413	204	198	326	279	214	413	438	225	652	287
20. Tripura .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
21. Uttar Pradesh .	.	.	12	739	292	356	304	371	12	539	260	366	272	373	24	638	552	361
22. West Bengal .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
23. All-India .	660	546	1318	346	1978	413	710	492	1340	287	2050	358	1370	519	2658	316	4028	385

TABLE (14) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF CROP GROWN PURE AND MIXED BY STATES AND SUB-SAMPLES

## Crop : Ragi

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined						
	pure		mixed		combined		pure		mixed		combined		pure		mixed		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	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	
1. Andhra Pradesh	158	951	40	744	198	909	158	689	42	697	200	692	316	820	82	719	398	801	
2. Assam	..	..	..	..	..	..	..	..	..	..	..	..	182	788	70	400	252	680	
3. Bihar	94	665	48	348	142	558	88	922	22	514	110	840	..	..	..	..	..	..	
4. Delhi	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
5. Goa, Daman, & Diu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
6. Gujarat	..	..	16	553	16	553	4	603	2	675	6	628	4	603	18	566	22	573	
7. Haryana	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
8. Himachal Pradesh	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
9. Jammu & Kashmir	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
10. Kerala	..	..	..	..	..	..	..	..	2	284	2	284	..	..	212	284	2	284	
11. Madras	264	1075	54	833	318	1033	274	1139	26	1156	300	1142	538	1107	80	939	618	1085	
12. Madhya Pradesh	..	..	..	..	..	..	2	376	6	524	8	487	2	376	6	524	8	487	
13. Maharashtra	46	492	24	751	70	581	48	914	2	941	50	914	94	707	26	766	120	719	
14. Manipur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
15. Mysore	132	618	170	398	302	494	96	563	202	452	298	489	228	596	372	427	600	492	
16. Orissa	42	697	8	598	50	682	24	388	12	413	36	395	66	586	20	487	86	563	
17. Pondicherry	14	1685	8	1460	22	1604	..	..	..	..	..	..	14	1685	8	1460	22	1604	
18. Punjab	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
19. Rajasthan	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
20. Tripura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
21. Uttar Pradesh	8	603	60	502	68	574	26	670	58	561	84	596	34	655	118	531	152	558	
22. West Bengal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
23. All-India	..	758	870	428	544	1186	751	720	875	374	551	1094	766	1478	872	802	546	2280	759

States/Sub-samples

TABLE (15) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF CROP GROWN PURE AND MIXED BY STATES AND SUB-SAMPLES

CROP : MAIZE

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined						
	pure		mixed		combined		pure		mixed		combined		pure		mixed		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	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	
1. Andhra Pradesh	68	1450	34	502	102	1134	40	1151	30	870	70	1030	108	1339	64	675	172	1092	
2. Assam			8	99	8	99	12	1609	..	..	12	1609	12	1609	8	99	20	1006	
3. Bihar	.	120	1295	280	1067	400	1137	136	1008	224	887	360	934	256	1142	504	988	760	1040
4. Delhi	.	4	104	..	..	4	104		..	..	..		4	104	..	..	4	104	
5. Goa, Daman, & Diu	.	.	..	..	..	..		..					..	..	..	..	..	..	
6. Gujarat	.	32	1223	24	497	56	912	22	1359	24	445	46	887	54	1282	48	469	102	899
7. Haryana	.	20	1067	6	0	26	823	2	1043	..	..	2	1043	22	1065	6	0	28	838
8. Himachal Pradesh	.	40	1643	24	1520	64	1596	20	1332	36	1332	56	1332	60	1539	60	1406	120	1473
9. Jammu & Kashmir	.	174	1648	32	1253	206	1586	118	1601	22	1156	140	1532	292	1628	54	1213	346	1564
10. Kerala		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
11. Madras	.	18	642	2	0	20	576	4	2150	4	1930	8	2041	22	917	6	1287	28	996
12. Madhya Pradesh	.	106	796	180	341	286	509	100	870	156	467	256	625	206	833	336	400	542	566
13. Maharashtra	.	8	408	36	42	44	109	10	1285	2	0	12	1070	18	894	38	40	56	314
14. Manipur	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
15. Mysore	.	32	1485	16	951	48	1307	18	2286	4	0	22	1871	50	1774	20	761	70	1485
16. Orissa	.	26	1495	18	576	34	1277	12	1154			12	1154	38	1386	8	576	46	1245
17. Pondicherry	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
18. Punjab	.	80	932	10	1574	90	1003	106	1265	2	1206	108	1265	186	1122	12	1512	198	1147
19. Rajasthan	.	24	571	146	860	170	818	28	447	138	578	166	556	52	504	284	724	336	689
20. Tripura	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
21. Uttar Pradesh	.	54	571	268	1043	322	964	34	1028	188	833	222	865	88	746	456	956	544	922
22. West Bengal	.	8	608	..	..	8	608	6	4361			6	4361	14	2216	..	..	14	2216
23. All India	.	814	1201	1074	845	1888	998	668	1231	830	756	1498	969	1482	1213	1904	806	3386	983

TABLE (16) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF CROP GROWN PURE AND MIXED BY STATES AND SUB-SAMPLES

CROP : WHEAT

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined					
	pure		mixed		combined		pure		mixed		combined		pure		mixed		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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1. Andhra Pradesh	9.	1300.	12.	796.	21.	1011.	9.	521.	8	126	17	336	18	909	20	529	38	709
2. Assam	..	..	..	..									..	..	..	..	..	
3. Bihar	83	704	356	455	439	502	74	630	346	474	420	502	157	670	702	465	859	502
4. Delhi	3	1945	18	1235	21	1337	9	2473	10	3220	19	2866	12	2342	28	1945	40	2063
5. Goa, Daman, & Diu	..												..	*				
6. Gujarat	133	1480.	20.	1132.	153	1433	125.	1478	12	1231	137	1455	258	1480	32	1169	290	1446
7. Haryana	56	1495	42.	759.	98	1179	41	1910	32	1137	73	1572	97	1670	74	922	171	1347
8. Himachal Pradesh	29	393	18	257	47	341	36	465	4	657	40	484	65	432	22	329	87	405
9. Jammu & Kashmir	77.	820.	12	887	89	830	64	692	26.	736	90	707	141	761	38	783	179	766
10. Kerala	.	.	..	..	..	..	..	..	*	*	..	..	..	..	..	..	..	..
11. Madras	2	5	.	..	2	5	.	..	.	..	.	..	2	5	..	..	2	5
12. Madhya Pradesh	133	499	312	371	445	410	131	840	288	460	419	578	264	667	600	413	864	489
13. Maharashtra	138	692	138	581	276	638	139	823	128	600	267	717	277	759	266	591	543	677
14. Manipur	6	1762	..	..	6	1762	6	1277	6	1277	12	1520	..			12	1520	
15. Mysore	5	504	44	136	49	173	19	640	16	287	35	479	24	613	60	175	84	301
16. Orissa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. Pondicherry	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. Punjab	65	1268	94	1134	159	1189	49	1290	64	860	113	1045	114	1277	158	1023	272	1129
19. Rajasthan	63	1134	184	479	247	647	57	1347	164	684	221	855	120	1235	348	576	468	744
20. Tripura	..	..					..	..	..	..	..	..	..	..	..	..	..	
21. Uttar Pradesh	54	894	1094	880	1148	880	68	828	1045	914	1113	907	122	857	2139	897	2261	894
22. West Bengal	5	1334		5	1334		16	899	6	326	22	744	21	1003	6	326	27	852
23. All-India	861	946	2344	692	3205	761	843	1011	2149	749	2992	823	1704	979	4493	719	6197	791

Normal Sample Survey

TABLE (17) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF CROP GROWN PURE AND MIXED BY STATES  
AND BY SUB-SAMPLES

State	CROP : BARLEY																	
	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined					
	pure		mixed		combined		pure		mixed		combined		pure		mixed		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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1. Andhra Pradesh																		
2. Assam																		
3. Bihar	22	321	232	272	254	277	16	240	182	217	198	220	38	287	414	247	452	250
4. Delhi	3	717	10	86	13	232	1	2627			1	2627	4	1193	10	86	14	403
5. Goa, Daman, Diu																		
6. Gujarat																		
7. Haryana	1	2125			1	2125			2	0	2	0	1	2125	2	0	3	709
8. Himachal Pradesh	17	1633	14	124	31	951	25	956	10	692	35	880	42	1231	24	361	66	914
9. Jammu & Kashmir							7	850					7	850			7	850
10. Jammu & Kashmir	7	850			2	1500	6	966	2	0	8	724	8	1100	2	0	10	880
11. Kerala																		
12. Madras																		
13. Madhya Pradesh	5	974	38	363	43	435	3	917	38	324	41	368	8	951	76	343	84	400
14. Maharashtra													2	0	2	0	2	0
15. Manipur																		
16. Mysore																		
17. Odisha																		
18. Pondicherry																		
19. Punjab	1	299	2	0	3	99	5	954	10	153	15	420	6	840	12	128	18	366
20. Rajasthan	28	2120	130	1038	158	1231	30	2328	110	1055	140	1327	58	2226	240	1045	298	1275
21. Tripura																		
22. Uttar Pradesh	2	1349	523	628	525	630	11	546	511	625	522	625	13	670	1034	628	1047	628
23. West Bengal	2	1233	40	882	42	899	3	2224	30	734	33	870	5	1829	70	818	75	885
All-India	90	1307	989	586	1079	645	100	1263	897	578	997	647	190	1285	1886	583	2076	647

TABLE (18) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF IRRIGATED AND NON-IRRIGATED CROP BY STATES AND SUB-SAMPLES

CROP : RICE

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined						
	irrigated		non-irrigated		combined		irrigated		non-irrigated		combined		irrigated		non-irrigated		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	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	
1. Andhra Pradesh	499	1371	45	472	544	1297	522	1352	35	657	557	1307	1021	1362	80	553	1101	1302	
2. Assam			121	1082	121	1082	18	1072	211	1030	229	1033	18	1072	332	1048	350	1050	
3. Bihar	144	875	401	361	545	497	91	949	465	400	556	489	235	902	866	381	1101	492	
4. Delhi			.						6	864	6	865			6	864	6	865	
5. Goa, Daman & Diu	6	1426	7	680	13	1023			6	806	6	806	6	1426	13	739	19	956	
6. Gujarat	21	759	59	492	80	561	8	719	45	699	53	702	29	746	104	58	133	616	
7. Haryana	18	1129	6	815	24	1053	4	1964	1	425	5	1656	22	1282	7	761	29	1156	
8. Himachal Pradesh	7	1268	1	761	8	1206	11	951	9	961	20	954	18	1072	10	943	28	1025	
9. Jammu & Kashmir	117	1987	6	754	123	1925	122	2162	5	1273	127	2128	239	2076	11	991	250	2026	
10. Kerala	.	127	1203	345	1013	472	1112	158	1245	288	996	446	1085	285	1228	633	1003	918	1075
11. Madras	.	645	1408	22	956	667	1391	640	1450	21	796	661	1431	1285	1431	43	877	1328	1411
12. Madhya Pradesh	.	51	815	316	378	367	437	67	801	300	356	367	437	118	806	616	368	734	437
13. Maharashtra	.	58	1151	180	549	238	697	98	1018	172	650	270	783	156	1067	352	598	508	741
14. Manipur	.	42	1478	79	1460	121	1465	10	1018	121	1458	131	1423	52	1391	200	1460	252	1443
15. Mysore	.	114	1169	71	971	185	1092	148	1072	66	1159	214	1100	262	1114	137	1063	399	1097
16. Orissa	.	77	1090	195	796	272	877	55	1369	175	835	230	961	132	1206	370	815	502	917
17. Pondicherry	.	17	1774	.		17	1774	6	2308	.		6	2308	23	1913			23	1913
18. Punjab	.	32	1107	.	.	32	1107	23	949	6	1159	29	993	55	1040	6	1159	61	1055
19. Rajasthan	.	2	235	1	96	3	190	4	69	6	69	10	69	6	124	7	74	13	99
20. Tripura	.	6	1045	217	969	223	971	5	1263	178	1058	183	1067	11	1211	39	1008	406	1013
21. Uttar Pradesh	.	245	702	454	272	699	423	255	729	342	341	597	507	500	714	796	301	1296	460
22. West Bengal	.	58	1339	304	1134	362	1169	76	939	336	1021	412	1011	134	1112	640	1075	774	1082
23. All-India	.	2286	1255	2830	689	5116	941	2321	1260	2794	739	5115	974	4607	1258	5624	714	10231	956

TABLE (19) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF IRRIGATED AND NON-IRRIGATED CROP BY STATES AND SUB-SAMPLES

State	CROP : JOWAR																		
	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined						
	irrigated		non-irrigated		combined		irrigated		non-irrigated		combined		irrigated		non-irrigated		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	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	
1. Andhra Pradesh	32	423	420	353	452	361	78	1075	364	358	442	484	110	885	784	356	894	423	
2. Assam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
3. Bihar	..	..	38	156	38	156	..	..	22	235	22	235	..	..	60	185	60	185	
4. Delhi	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
5. Goa, Daman & Diu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
6. Gujarat	36	403	192	502	228	487	58	1337	134	954	192	1070	94	979	326	687	420	751	
7. Haryana	22	598	8	289	10	351	..	..	..	..	..	..	2	598	8	289	10	351	
8. Himachal Pradesh	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
9. Jammu & Kashmir	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
10. Kerala	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
11. Madras	196	712	142	306	338	544	162	1329	224	185	386	665	358	991	366	232	724	608	
12. Madhya Pradesh	2	1154	462	351	464	353	..	..	468	420	468	420	2	1154	930	385	932	388	
13. Maharashtra	52	912	768	588	820	610	44	914	852	583	896	600	96	912	1620	586	1716	605	
14. Manipur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
15. Mysore	36	381	384	437	420	432	60	983	348	373	408	465	96	756	732	408	828	447	
16. Orissa	..	..	10	526	10	526	..	..	12	432	12	432	..	..	22	474	22	474	
17. Pondicherry	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
18. Punjab	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
19. Rajasthan	8	356	162	294	170	297	..	..	166	376	166	376	8	356	328	336	336	336	
20. Tripura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
21. Uttar Pradesh	16	620	314	252	330	267	36	329	316	314	352	316	52	418	630	284	682	292	
22. West Bengal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
23. All-India	*	380	645	2900	418	3280	442	438	1114	2906	445	3344	534	818	897	5806	430	6624	489

TABLE (20) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF IRRIGATED AND NON-IRRIGATED CROP BY STATES AND SUB-SAMPLES

CROP : BAJRA

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined					
	irrigated		non-irrigated		comb.		irrigated		non-irrigated		comb.		irrigated		non-irrigated		comb.	
	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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1. Andhra Pradesh	42	867	178	418	220	502	94	504	180	314	274	381	136	615	358	366	494	435
2. Assam		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Bihar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Delhi	24	437	2	131	26	413	2	1794	14	717	16	852	26	541	16	642	42	581
5. Goa, Daman & Diu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Gujarat	106	820	202	536	308	635	72	904	230	427	302	541	178	855	432	479	610	588
7. Haryana	26	692	94	645	120	655	6	259	54	245	60	247	32	610	148	499	180	519
8. Himachal Pradesh		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. Jammu & Kashmir		..	4	0	4	0	..	..	26	304	26	304	..	..	30	264	30	264
10. Kerala	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11. Madras	52	492	140	284	192	341	80	343	158	163	238	225	132	403	298	220	430	277
12. Madhya Pradesh	..	..	32	536	32	536	..	..	32	581	32	581	..	..	64	558	64	558
13. Maharashtra	34	630	288	250	322	292	28	566	310	299	338	321	62	600	598	274	660	306
14. Manipur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15. Mysore	20	200	66	121	86	136	8	168	114	175	122	173	28	190	180	156	208	158
16. Orissa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. Pondicherry	2	544	6	531	8	536							2	544	6	531	8	536
18. Punjab	24	692	6	754	30	704	8	1235	36	1384	44	810	32	828	42	1295	74	768
19. Rajasthan	38	687	268	242	326	294	30	680	296	235	326	279	68	684	584	237	652	287
20. Tripura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. Uttar Pradesh	30	531	274	353	304	371	42	437	230	361	272	373	72	477	504	356	576	373
22. West Bengal	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. All-India	398	660	1580	351	1978	413	370	571	1680	324	2050	358	768	618	3260	336	4028	385

TABLE (21) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF IRRIGATED AND NON-IRRIGATED CROP BY STATES AND SUB-SAMPLES

## Crop : Ragi

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined						irrigated			non-irrigated					
	irrigated			non-irrigated			combined			irrigated			non-irrigated			combined			irrigated			non-irrigated			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	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	
(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. Andhra Pradesh		162	936	36	783	198	909		152	796	48	361	200	692		314	867	84	541	398	501						
2. Assam																											
3. Bihar		4	1319	138	534	142	558		8	670	102	855	110	840		12	887	240	670	252	680						
4. Delhi																											
5. Goa, Daman & Diu																											
6. Gujarat																											
7. Haryana																											
8. Himachal Pradesh																											
9. Jammu & Kashmir																											
10. Kerala																											
11. Madras																											
12. Madhya Pradesh																											
13. Maharashtra																											
14. Manipur																											
15. Mysore																											
16. Orissa																											
17. Pondicherry																											
18. Punjab																											
19. Rajasthan																											
20. Tripura																											
21. Uttar Pradesh																											
22. West Bengal																											
23. All-India		596	993	590	507	1186	751		562	914	532	608	1094	766		1158	954	1122	553	2280	759						

TABLE(22): UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF IRRIGATED AND NON-IRRIGATED CROP BY STATES AND SUB-SAMPLES

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Crop : Maize

National Sample Survey

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined						irrigated			non-irrigated				
	irrigated			non-irrigated			combined			irrigated			non-irrigated			combined			irrigated			non-irrigated				
	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	no. of cuts	yield rate	no. of cuts	yield rate		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)								
1. Andhra Pradesh		44	2298	58	252	102	1134		34	1470	36	618	70	1030		78	1937	94	393	172	1092					
2. Assam				8	99	8	99					12	1609	12	1609					20	1006	20	1006			
3. Bihar				400	1137	400	1137		2	1428	358	927	360	934			2	2142	758	1038	760	1040				
4. Delhi				4	104	4	104												4	104	4	104				
5. Goa, Daman & Diu				..	..	..	..					..	..	..	..				..	..	..	..	..	..		
6. Gujarat				12	1525	44	744	56	912		16	1831	30	383	46	887		28	1700	74	598	102	899			
7. Haryana				14	1179	12	408	26	823		2	1043			2	1043		16	1161	12	4	28	838			
8. Himachal Pradesh					64	1596	64	1596		4	1463	52	1322	56	1392		4	1463	116	1473	120	1473				
9. Jammu & Kashmir				40	1621	166	1579	206	1586		18	1510	122	1532	140	1532		58	1586	288	1559	346	1564			
10. Kerala				..	..	..	..	..				..	..	..	..			..	..	..	..	..	..			
11. Madras				20	576	..	..	20	576		8	2041	..		8	2041		28	996			28	996			
12. Madhya Pradesh				24	514	262	509	286	509		4	1408	252	600	256	625		28	642	514	553	542	566			
13. Maharashtra				18	69	26	138	44	109		10	1285	2	0	12	1070		28	504	28	128	56	314			
14. Manipur				..	..	..	..	..	..									..	..	..	..	..	..			
15. Mysore				22	1218	26	1384	48	1307		22	1871			22	1871		44	1544	26	1384	70	1485			
16. Orissa					34	1277	34	1277					12	1154	12	1154		46	1245	46	1245					
17. Pondicherry					..	..	..	..	..									..	..	..	..	..	..			
18. Punjab				68	1045	22	870	90	1003		74	1290	34	1208	108	1265		142	1174	56	1075	198	1147			
19. Rajasthan					56	1231	114	615	170	818		56	927	110	368	166	556		112	1077	224	494	336	689		
20. Tripura				..	..	..	..	..	..									..	..	..	..	..	..			
21. Uttar Pradesh				98	1058	224	922	322	964		40	835	182	867	222	865		138	993	406	897	544	922			
22. West Bengal						8	608	8	608				6	4361	6	4361			14	2216	14	2216				
23. All-India		416	1193	1472	944	1888	998		290	1295	1208	887	1498	969			706	1235	2680	919	3386	983				

TABLE (23) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF IRRIGATED AND NON-IRRIGATED CROP BY STATES AND SUB-SAMPLES

CROP : WHEAT

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined														
	irrigated			non-irrigated			combined			irrigated			non-irrigated			combined			irrigated			non-irrigated			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	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	
(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. Andhra Pradesh	20	1063	1	0	21	1011	5	571	12	237	17	336	25	964	13	220	38	709	..	..	..	..	..	..	..	..	
2. Assam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
3. Bihar	171	642	268	413	439	502	128	598	292	460	420	502	299	623	560	437	859	502	..	..	..	..	..	..	..	..	
4. Delhi	17	1537	4	487	21	1337	19	2866	..	..	19	2866	36	2239	4	487	40	2063	..	..	..	..	..	..	..	..	
5. Goa, Daman & Diu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
6. Gujarat	..	132	1572	21	566	153	1433	119	1611	18	430	137	1435	251	1591	39	504	290	1446	..	..	..	..	..	..	..	
7. Haryana	..	77	1381	21	440	98	1179	55	1814	18	830	73	1572	132	1562	39	620	171	1347	..	..	..	..	..	..	..	
8. Himachal Pradesh	..	..	47	341	47	341	7	484	33	484	40	484	7	484	80	400	87	405	..	..	..	..	..	..	..		
9. Jammu & Kashmir	..	34	749	55	882	89	830	79	929	83	687	90	707	41	778	138	764	179	766	..	..	..	..	..	..	..	
10. Kerala	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
11. Madras	..	2	5	..	2	5	..	..	..	..	..	..	..	2	5	..	..	2	5	..	..	..	..	..	..		
12. Madhya Pradesh	..	100	662	345	336	445	410	80	1297	339	408	419	578	180	944	684	371	864	489	..	..	..	..	..	..	..	
13. Maharashtra	..	135	828	141	455	276	638	126	1013	141	450	267	717	261	917	282	452	543	677	..	..	..	..	..	..	..	
14. Manipur	..	..	6	1762	6	1762	..	..	6	1277	6	1277	..	..	12	1520	12	1520	..	..	..	..	..	..	..		
15. Mysore	..	8	381	41	133	49	173	31	521	4	156	35	479	39	492	45	136	84	301	..	..	..	..	..	..	..	
16. Orissa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
17. Pondicherry	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
18. Punjab	..	125	1369	34	516	159	1189	90	1132	23	714	113	1045	215	1270	57	596	272	1129	..	..	..	..	..	..	..	
19. Rajasthan	..	172	808	75	274	247	647	181	882	40	731	221	855	353	845	115	432	468	744	..	..	..	..	..	..	..	
20. Tripura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
21. Uttar Pradesh	..	753	1043	395	566	1148	880	761	1092	352	511	1113	907	1514	1067	747	541	2261	894	..	..	..	..	..	..	..	
22. West Bengal	..	..	5	1334	5	1334	..	12	761	10	722	22	744	12	761	15	927	27	882	..	..	..	..	..	..	..	
23. All-India	1746	1016	1459	455	3205	761	1621	1102	1371	492	2992	823	3367	1058	2830	472	6197	791	..	..	..	..	..	..	..		

TABLE (24) : UNWEIGHTED GROSS YIELD RATE (KILOGRAM/HECTARE) OF IRRIGATED AND NON-IRRIGATED CROP BY STATES AND SUB-SAMPLES

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## CROP : BARLEY

State	sub-sample 1						sub-sample 2						sub-samples 1 & 2 combined												
	irrigated			non-irrigated			combined			irrigated			non-irrigated			combined			irrigated			non-irrigated			
	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	no. of cuts	yield rate	no. of cuts	yield rate	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)							
1. Andhra Pradesh	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
2. Assam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
3. Bihar	54	289	200	272	254	277	36	242	162	213	198	220	90	269	362	245	452	250	..	..	..	..	..	..	
4. Delhi	7	432	6	0	13	232	1	2627	..	..	1	2627	8	707	6	0	14	403	..	..	..	..	..	..	
5. Goa, Daman & Diu	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
6. Gujarat	1	2125	..	..	1	2125	2	..	..	..	2	..	3	709	..	..	3	709	..	..	3	709	..	..	
7. Haryana	20	1342	11	242	31	951	17	1105	18	670	35	880	37	1233	29	507	66	914	..	..	..	..	..	..	
8. Himachal Pradesh	..	7	850	7	850	..	..	..	..	..	..	..	..	..	..	..	7	850	7	850	..	..	..	..	
9. Jammu & Kashmir	1	1900	1	1100	2	1500	5	991	3	282	8	724	6	1142	4	487	10	880	..	..	..	..	..	..	
10. Kerala	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
11. Madras	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
12. Madhya Pradesh	21	638	22	240	43	435	2	1119	39	326	41	368	23	680	61	299	84	400	..	..	..	..	..	..	
13. Maharashtra	..	..	..	..	..	..	..	..	2	..	2	0	..	..	2	2	2	0	..	..	..	..	..	..	
14. Manipur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
15. Mysore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
16. Orissa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
17. Pondicherry	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
18. Punjab	1	299	2	0	3	99	12	343	3	722	15	420	13	341	5	432	18	366	..	..	..	..	..	..	
19. Rajasthan	130	1433	28	292	158	1231	136	1522	24	385	140	1327	246	1475	52	336	298	1275	..	..	..	..	..	..	
20. Tripura	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
21. Uttar Pradesh	291	692	234	551	525	630	295	773	227	427	522	625	586	734	461	489	1047	628	..	..	..	..	..	..	
22. West Bengal	..	42	899	42	899	..	..	33	870	33	870	..	..	75	885	75	885	..	..	..	..	..	..	..	..
23. All-India	526	857	553	442	1079	645	486	919	511	385	997	647	3709	709	1064	415	2076	647	..	..	..	..	..	..	

TABLE (25) : RATIO OF DRY WEIGHT TO GREEN WEIGHT OF MAJOR CEREAL CROPS OF AUTUMN SEASON

State (I)	paddy		jowar		bajra		ragi		maize	
	sub-sample 1	sub-sample 2								
1. Andhra Pradesh	-8256	-8817	-4545	-5679	-6146	-4978	-4969	-4223	-4426	-3615
2. Assam	-8792	-8945							-4833	-5458
3. Bihar	-8618	-8617	-5027	-5240			-5158	-4868	-4954	-4727
4. Delhi	-8280	-7863			-4327	-4586			-3319	
5. Goa, Daman, Diu	-8978	-9184								
6. Gujarat	-8800	-8952	-4117	-4533	-5823	-4882	-6595		-5722	-5576
7. Haryana	-8680	-8624	-4990		-5581	-4285			-5213	-6822
8. Himachal Pradesh		-6177							-4920	-5108
9. Jammu & Kashmir	-8198	-3345			-5287	-4786			-5544	-5372
10. Kerala	-8834	-8949					-4648			
11. Madras	-8343	-8876	-4274	-5216	-5187	-4532	-4517	-5241	-5019	-4552
12. Madhya Pradesh	-8640	-8301	-5332		-5069	-4618			-3888	-4066
13. Maharashtra	-8880	-8692	-5229	-5036	-5273	-5108	-3864	-5263	-4109	-3143
14. Manipur	-8695	-9175								
15. Mysore	-9465	-9258	-5408	-5763	-5311	-4912	-5223	-5909	-4672	-5212
16. Orissa	-8712	-8969					-5064	-4284	-3906	
17. Pondicherry	-8799				-4457		-4921			
18. Punjab	-8680	-8740			-5581	-5166			-5213	-4971
19. Rajasthan	-3974	-4167	-3456	-4872	-4964	-4651			-4688	-4542
20. Tripura	-8646	-8662								
21. Uttar Pradesh	-8470	-8571	-5660		-4381	-4701	-3972	-4532	-4590	-4761
22. West Bengal	-9121	-9082							-6440	-7073

TABLE (26) : RATIO OF DRY WEIGHT TO GREEN WEIGHT OF MAJOR CEREAL CROPS OF WINTER SEASON

States (1)	paddy		jowar		bajra		ragi	
	ss. 1 (2)	ss. 2 (3)	ss. 1 (4)	ss. 2 (5)	ss. 1 (6)	ss. 2 (7)	ss. 1 (8)	ss. 2 (9)
1. Andhra Pradesh	.8492	.8562	.6097	.5638	.5145		.3996	.5334
2. Assam	.9345	.8896						
3. Bihar	.8853	.8797	.8465	.4377			.4909	
4. Delhi		..						
5. Goa, Daman & Diu								
6. Gujarat		.8523	.5928	.6717			.6451	.5849
7. Haryana								
8. Himachal Pradesh								
9. Jammu & Kashmir								
10. Kerala	.8785	.9068						
11. Madras	.8845	.9058	.5389	.5428	.4502		.5012	.6140
12. Madhya Pradesh	.8730	.8244	.4878	.4960	.5454			.3930
13. Maharashtra	.9012	.8746	.5474	.5974	.3163	.5571	.7536	
14. Manipur	.9023	.9084	..	..				
15. Mysore	.8818	.9060	.5230	.5576	.4937	.4497	.4647	.5743
16. Orissa	.8863	.9202	.6000	.5265			.5889	.6862
17. Pondicherry		..					..	..
18. Punjab	..	..	..				..	..
19. Rajasthan			.3571	.5250	.4990			
20. Tripura		.8891	.8581					
21. Uttar Pradesh	.8322	.8741	.5071	.5143	.4439	.4428		
22. West Bengal	.9426	.9055	..					

TABLE (27) : RATIO OF DRY WEIGHT TO GREEN WEIGHT OF MAJOR CEREAL CROPS OF SPRING SEASON

State	paddy		jowar		bajra		ragi		maize		wheat		barley	
	ss. 1	ss. 2	ss. 1	ss. 2										
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1. Andhra Pradesh	.8524	.8545	.4823	.5599			.3572	.3978		.5746	.5866	.5472		
2. Assam	..	..	..	..			..	..	..					
3. Bihar	..	..	..	..			..	..	..		.5791	.6005	.6379	.589
4. Delhi											.5961	.5569	.6490	.5255
5. Goa, Daman & Diu		.9579												
6. Gujarat				.6229	.6356	.6203	.4226				.6197	.5792	.7801	
7. Haryana											.5655	.5560	.6186	.5806
8. Himachal Pradesh											.5508	.4715		
9. Jammu & Kashmir			..	..	..	..	..	..			.6031	.5456	.7536	.5268
10. Kerala	.8799	.9190					..	..	..					
11. Madras	.9090	.8905	.4774	.5444	.6976	.4108	.5929	.4370			.3333			
12. Madhya Pradesh							..	..	..		.5127	.5424	.6558	.6623
13. Maharashtra	.9072	.8571	.6501	.6026			..	..	..		.5769	.5845		..
14. Manipur							..	..	..		.5998	.8268		
15. Mysore	.8889	.8839	.5233	.5481			.4823	.5088	.4723	.5148	.4904	.5291		
16. Orissa	..	..	..						..	..	..			
17. Pondicherry	.8996						.4539		..	..				
18. Punjab	..	..	..								.5575	.5693	.5221	.4261
19. Rajasthan											.5387	.5025	.7085	.7077
20. Tripura														
21. Uttar Pradesh	..	..	..				..	..	..		.5653	.5897	.6824	.6839
22. West Bengal							..	..	..		.6919	.6829	.7238	.8853

TABLE (28) : RATIO OF DRY WEIGHT TO GREEN WEIGHT OF MAJOR CEREAL CROPS OF SUMMER SEASON

TABLE (29) : ESTIMATES OF PRODUCTION AND GROSS AREA UNDER SELECTED CROPS FOR SELECTED STATES BY SUB-SAMPLES 1966-67

State	production (000 tonnes)			gross area (000 hectares)							
	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)	
crop : rice											
Andhra Pradesh	4737	4461	4598	3628	3470	3387	3210	3507	3340	3423	
Assam	1552	1879	1715	1270	1895	1937	1685	1603	1790	1697	
Bihar	2923	3241	3082	5713	4872	4848	6136	5281	5504	5392	
Kerala	771	821	796	667	637	650	800	658	719	689	
Madhya Pradesh	2858	1910	2384	4989	3790	5350	3662	5168	3726	4447	
Madras	5078	3610	4344	3890	2681	2755	3045	3322	2863	3092	
Maharashtra	1215	1311	1262	1136	1227	1478	1454	1307	1341	1324	
Mysore	1980	1363	1673	1153	975	1841	1187	1497	1081	1289	
Orissa	2453	3169	2811	3635	2758	3260	4552	3448	2655	3551	
Uttar Pradesh	1699	2574	2137	3874	4353	4411	4746	4143	4550	4346	
West Bengal	4367	3651	4009	3696	3840	3463	3434	3579	3637	3608	
crop : jowar											
Andhra Pradesh	1049	1332	1190	3059	3433	3526	3950	3293	3692	3493	
Gujarat	443	919	681	879	720	993	902	936	811	874	
Madhya Pradesh	1597	1442	1519	4188	3105	3252	3217	3720	3161	3441	
Madras	217	235	226	660	696	1149	655	905	675	790	
Maharashtra	4451	4790	4620	7077	8084	7731	7850	7404	7967	7686	
Mysore	1699	1282	1491	4162	2922	3953	2782	4058	2652	3455	
Rajasthan	533	451	492	1393	1122	1214	1225	1303	1174	1239	
crop : bajra											
Gujarat	1102	751	926	1738	2029	1675	1685	1707	1857	1782	
Haryana	576	445	510	842	1295	1292	1185	1067	1240	1153	
Rajasthan	1314	1124	1219	7812	6448	5915	5538	6864	5993	6428	
crop : ragi											
Madras	379	375	376	320	334	489	316	405	325	365	
Mysore	438	664	550	1221	1395	856	1377	1038	1386	1212	
crop : maize											
Andhra Pradesh	335	155	244	223	152	151	248	187	200	193	
Bihar	1374	842	1108	1153	926	1138	1076	1147	1001	1074	
Jammu & Kashmir	438	238	338	231	132	247	160	239	146	192	
Madhya Pradesh	452	557	505	998	1418	725	1172	861	1294	1078	
Punjab	338	570	454	313	438	372	398	342	418	380	
Rajasthan	572	452	512	746	896	1170	704	958	799	879	
Uttar Pradesh	1126	1350	1238	1540	1826	1179	1483	1359	1655	1507	
crop : wheat											
Gujarat	1007	845	926	494	375	996	673	745	524	635	
Haryana	968	1271	1120	841	716	581	769	711	743	727	
Madhya Pradesh	1139	1669	1404	2785	2541	2218	2556	2501	2549	2525	
Punjab	2177	1996	2087	1528	1923	1975	1716	1752	1819	1786	
Rajasthan	800	1052	926	926	1456	955	658	941	1057	998	
Uttar Pradesh	5022	5417	5219	5945	6307	4857	5774	5401	6041	5721	
crop : barley											
Rajasthan	767	720	744	463	423	608	440	535	431	484	
Uttar Pradesh	1356	1394	1375	2084	2583	2450	2067	2267	2325	2296	

## APPENDIX I

### SAMPLING DESIGN AND ESTIMATION PROCEDURE

The sampling design was a stratified two-stage one for the land utilisation survey, village 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 the other 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. The country was divided into 63 agricultural regions by grouping contiguous districts of a State having similar crop patterns and population densities. Strata were formed within each region by grouping contiguous tehsils having similar population densities and altitudes and having good transport and means of communication such that the sum of the sizes of the villages in each stratum was exactly equal to the size of a village being given by the ratio of its population to the average population of a village in the State in the population size class 0-499, rounded off to a suitable integer. The number of strata to be formed in a state was obtained as the ratio of its allocation to 24. The total number of strata was 355.

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 of 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 circular 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 season. The crop-cutting experiments were conducted in villages 1, 3 and 5 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 the case of villages (without maps) where a list of plots was available. The sample clusters were selected through the basic plots (equal in number to the number of clusters to be selected), these having been selected circular 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 radius of 5 miles of the sample villages 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. For crop yield survey in each season six sub-plots from all sample plots surveyed for land utilisation were selected with probability proportional to the gross area under the specified crops after arranging the sub-plots in a specified order on the basis of crops grown. 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, wheat (grown pure) or barley (grown pure) and from two cuts selected at random (per crop) in case of sub-plots growing—jowar, bajra, ragi, wheat (mixed), maize or barley (mixed). If the number of sub-plots having the specified cereal crops in 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 from 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 Area 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) and

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

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

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

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

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

$$\hat{A}_s = \frac{Z}{v} \sum_{i=1}^v \frac{\hat{A}_{si}}{z_{si}} \quad \text{and } \hat{A}_{si} \text{ is the estimate for the ith village in the sth stratum and}$$

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

\* $r=1$  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 or sampling serial number was rounded off to the next higher multiple of cluster size (in case it was not a multiple of the cluster size).

#### 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 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 for tabulation of post card schedules.

#### 8.5 Production estimate:

The production estimate  $P$  of a crop (obtained separately for pure and mixed crop) is the product of  $Y_s$ , an estimate of the yield rate of the crop (pure or mixed as the case may be) based on the villages reporting crop-cutting experiments and  $A_s$ , an estimate of the gross area under the crop based on all the villages selected for the land-utilisation survey.

8.6 The estimate  $\hat{Y}$  is given by

$$\hat{Y} = \Sigma' \hat{A}_s \hat{Y}_s / \Sigma' \hat{A}_s$$

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

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

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

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' estimate 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 estimates given above are for the green weight of the crop. The estimate of dry weight is obtained by multiplying the estimate of green weight of crop for a sub-sample by a drage factor for that sub-sample (for each season). This factor was the ratio of the total dry weight to the total green weight of that crop (pure and mixed) obtained from the cuts of 2'3" radius of the given season and sub-sample for the whole State. The drage factors as obtained in the 20th 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

A list of strata, where cereal crops were believed to be not grown, and hence exempted from the survey for different seasons is given below :

### STRATA EXEMPTED FROM SURVEY

STATE	SEASON			
	AUTUMN	WINTER	SPRING	SUMMER
(1)	(2)	(3)	(4)	(5)
Andhra Pradesh				18, 19
Assam			all strata	all strata
Bihar			24—28, 32	1—4, 8—10, 12—32
Delhi	.	..	all strata	all strata
Goa, Daman & Diu	.			all strata
Jammu & Kashmir	.		all strata	4, 6, 8—15
Madras	.			21
Madhya Pradesh	.			1—26, 30
Maharashtra	.		18	1, 4, 6—10, 12—14 16—28
Manipur				all strata
Orissa		..	1, 3, 4, 6, 7, 13—15	1—7, 10, 12—15
Punjab	•	•	1—13, 15	..
Rajasthan	.	.		1—12, 15, 16
Tripura	.			all strata
Uttar Pradesh		..	30, 32—35	..
				1, 2, 4—11, 16—20, 22—28, 33—44.

11. CANTERBURY

THE KING'S CHURCH AND THE MONKS' CHURCH OF ST. GENEVIEVE

BY JAMES DODD, M.A.

LONDON: PRINTED FOR T. SPEDDING,

AT THE SIGN OF THE CROWN IN LITTLE COVENT GARDEN.

MDCCLXVII.

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**APPENDIX III**  
**FACSIMILE OF SCHEDULES OF INVESTIGATION**

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SECRETARIAL COPY OF THE MEMORANDUM  
RECORDED IN THE INDEX

**CENTRAL\* STATE GOVERNMENT OF INDIA, NATIONAL SAMPLE SURVEY 1966-67**

**ORIGINAL\*  
DUPLICATE**

**Schedule 5.0 : Land Utilisation**

**AUTUMN  
(Twentyfirst Round)**

**RURAL**

[1] identification particulars of village											
1. serial number	2. zone-state-region	3. stratum	4. sub-sample	5. sample village	6. size of village	7. method code	8. stage	9. district	10. tehsil/taluk/thana*	11. village (name)	12. village cadastrally surveyed : no-1, partly surveyed-2, fully surveyed-3
13. availability of village map : in village-1, tehsil-2, elsewhere (-3), not traceable-4	14. total number of sheets in which village is mapped	15. if village map available, number of sheets availed	16. number of schedules 5-01 attached	17. village area (0.00 acres) (i) as per samples list (ii) revenue village (iii) surveyed part	18. whether map covers whole village including forest, hills, desert, etc. (yes-1, no-2)	19. highest survey/sampling serial numbers (method 1/2)	20. adjusted highest survey/sampling serial number (method 1/2) total number of households (method 3)	21. number of clusters/households surveyed	22. cluster size (method 1/2)	23. largest three plots (i) survey number (ii) area (0.00 acres) (iii) percentage of cultivated area	24. total area under crops in the village in 1965-66 as per village records (0.00 acres) (i) paddy (ii) jowar (iii) bajra (iv) ragi (v) maize (vi) wheat (vii) barley (viii) small millets.
[2] investigation particulars											
1. investigator : name	roll no.	date : (i) survey	(ii) despatch	signature							
2. inspector : name	date : (i) inspection	(ii) scrutiny	(iii) despatch	signature							
3. scrutiniser : name	date : (i) receipt	(ii) scrutiny	(iii) despatch	signature							
[3] selection of revenue village				[4] selection of hamlet*/part of village*				[5] particulars of census villages constituting revenue village			
sr. no.	names of revenue villages	percentage area	random number	sr. no.	names of hamlets	percentage area	random number	sr. no.	names of census villages		
(1)	(2)	(3)	(4)	(1)	(2)	(3)	(4)	(1)	(2)		
survey number/sampling serial number of basic plot or household											
[6] selection of basic plots/households*											
1. interval (I) =	=	2. random start (R) =									
3. basic plots/households* selected :											
cluster number				1	2	3	4	5	6		
	R =	R + I	R + 2I	R + 3I	R + 4I	R + 5I					
(1)	(2)	(3)	(4)	(5)	(6)	(7)					
survey number/sampling serial number of basic plot or household											
[7] details of sample cluster											
cluster/ house- hold number	survey number and sampling serial number of plots in the cluster (methods 1 and 2)										name of the head of the household (method 3)
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1											
2											
3											
4											
5											
6											

\*delete whichever is inapplicable.

### [8] utilisation particulars of plots

(Codes are to be given only for the specified cereal crops of the reference season.)      \*autumn-1, winter-2, spring-3, summer-4.

serial number	[8] utilisation particulars of plots											gross area (0.00) acres under																			
	cluster/household number	survey number	geographical area (0.00) acres	crops of autumn season and their mixtures			other utilisation			crop grown singly											mixed crops										
				sub-plot number	name of crops	name	name	name	name	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																															
5																															
6																															
7																															
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9																															
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11																															
12																															
13																															
14																															
15																															
16																															
17																															
18																															
19																															
20																															
21																															
22																															
23																															
24	total			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											gross area (0.00) acres under																
serial number	cluster/household number	survey number	geographical area (0.00) acres	sub-plot number	crops of autumn season and their mixtures			other utilisation			crop grown singly			mixed crops													
					area of sub-plot as percentage of geographical area of plot	utilisation type	name of crops	crop code*	season code**	name	season code**	paddy	jowar	bajra	ragi	maize	wheat	barley	small millets	rice	maize	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																											
5																											
6																											
7																											
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9																											
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11																											
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13																											
14																											
15																											
16																											
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.

10—3 C. S.O./N.D./69

[8] utilisation particulars of plots																											
serial number	cluster/household number	survey number	geographical area (0.00) acres	crops of autumn season and their mixtures				other utilisation				gross area (0.00) acres under															
				sub-pilot number	area of sub-pilot as percentage of geographical area of plot	utilisation type	name of crops	crop code*	season code**	name	crop grown singly	paddy	jowar	bajra	ragi	maize	wheat	barley	small millets	paddy	jowar	bajra	ragi	maize	wheat	barley	small millets
1	(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)
2																											
3																											
4																											
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17																											
18																											
19																											
20																											
21																											
22																											
23																											
24	total			x	x	x		x	x		x																

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

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

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

## [8] utilisation particulars of plots

serial number (0)	cluster/household number (1)	survey number (2)	geographical area (0.00) acres (3)	sub-plot number (4)	crops of autumn season and their mixtures			utilisation type (6)	name of crops (7)	other utilisation (10)	gross area (0.00) acres under														
					area of sub-plot as percentage of geographical area of plot (5)	crop code* (8)	season code** (9)				crop grown singly						mixed corps								
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
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16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24	total				x	x	x		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.

[B] utilisation particulars of plots																											
serial number	cluster/household number	survey number	crops of autumn season and their mixtures			other utilisation	gross area (0.00) acres under																				
			name of crops	crop code*	season code**		crop grown singly					mixed crops															
(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											paddy																
2											jowar																
3											bajra																
4											ragi																
5											maize																
6											wheat																
7											barley																
8											small millets																
9											paddy																
10											jowar																
11											bajra																
12											ragi																
13											maize																
14											wheat																
15											barley																
16											small millets																
17											paddy																
18											jowar																
19											bajra																
20											ragi																
21											maize																
22											wheat																
23											barley																
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.

[9] particulars of crops and seasons in the village  
name of informant with designation if any.....

[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.

**CENTRAL\***  
**STATE**

**ORIGINAL,**  
**DUPLICATE**

**GOVERNMENT OF INDIA NATIONAL SAMPLE SURVEY : 1966-67**

**Schedule 5.1 : Crop-cutting Experiments**

**AUTUMN**

**RURAL**

**(Twentyfirst Round)**

<b>[1] identification particulars of village</b>				
1. serial number	6. method code	11. state.....	12. district.....	13. tehsil/taluk/thana*.....
2. zone-state-region	7. date of area survey	14. name of village.....	15. village area (0.00 acres).....	
3. stratum	8. number of visits for crop-cutting			
4. sub-sample	9. total number of experiments			
5. sample village	10. number of sheets for block 6			
<b>[2] investigation particulars</b>				
1. investigator : name.....	roll no.....	date (i) survey.....	(ii) despatch.....	signature.....
2. inspector : name.....	date (i) inspection.....	(ii) scrutiny.....	(iii) despatch.....	signature.....
3. scrutiniser: name.....	date (i) receipt.....	(ii) scrutiny.....	(iii) despatch.....	signature.....
<b>[3] remarks by investigator</b>				
<b>[4] remarks by inspector</b>				
<b>[5] number of sample fields (sub-plots) in which crop-cutting experiments were done</b>				
srl. no.	item		number	
(1)	(2)		(3)	
1.	sample fields originally selected for crop-cutting			
2.	originally selected fields where crop-cutting experiments were done			
3.	sample fields substituted for originally selected fields			
4.	total of sample fields where crop-cutting experiments were done (srl. no. 2+3)			
5.	sample fields missed for crop-cutting (srl. no. 1-4)			

\*Delete whichever is inapplicable.

**Sch. 5.1—2**

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

1. total gross area (0.00 acres)=..... 2. internal (I)=-----=.....  
 3. random start (R)=..... 4. R+I=.....  
 5. R+2I=..... 6. R+3I=.....  
 7. R+4I=..... 8. R+5I=.....

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

### *The Land Utilisation Survey and Crop-cutting Experiments*

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Sch. 5.1—3

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

#### [7] selection of sub-plots from sub-plot group for crop-cutting experiments

[8] probable week of harvest of crops in sub-plots selected for crop-cutting experiments

\* harvested—1, not permitted by cultivator—2, others—3.  
† relates to the cultivators households.

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

## Sch. 5.1—4

Block 10 : Summary of crop-cutting experiments*									
line.....									
[9] results of crop-cutting experiments									
random numbers used : starting with page.....									
.....line.....									
name of crop	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
order of selection	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
survey number	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
sub-plot number	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
plots area under crop in the sub-plots (0.00 acres)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
mixed crop—P									
pure crop—M									
cut number									
irrigation code (a)									
variety of seed used (b)									
type of manure used (b)									
sowing type (d)									
condition of crop (e)									
east-west									
north-south									
x									
y									
length of sides (steps)									
random number									
weight of green crop (in grams.)									
2'3*	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
4'-2'3*	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
number of plants									
2'3*	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
4*	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
total yield in 4 circle cuts (grams)									
crop									
Barley									
maize									
wheat									
barny									
number of cuts									
irrigated									
not irrigated									
crop									
Paddy									
jowar									
beans									
ragi									
maize									
wheat									
barny									

\*\*not to be filled in by the investigator

(d) broadcasting—1, transplanting—2, drilling—3, others—4

(a) not irrigated—0; irrigated : canal—1, tank—2, well—3, others—4

(b) no manure—0; organic : farmyard—1, town compost—2; inorganic—3, green manure—4, others—5

(c) very good—1, good—2, average—3, poor—4, very poor—5

(e) improved variety from : (i) agricultural department—1; (ii) market—2;

(iii) other sources—3; local variety

\*indicates radius of circle

**CENTRAL\*  
STATE**

**ORIGINAL\***  
**DUPLICATE**

**GOVERNMENT OF INDIA NATIONAL SAMPLE SURVEY : 1966-67**

### Schedule 5.2 : Driage Experiments

RURAL

**AUTUMN**  
*(Twentyfirst Round)*

## AUTUMN

[1] identification particulars of village				
1. serial number		5. Sample village		8. district.....
2. zone-state-region				9. tehsil/taluk/thana*
3. stratum		6. method code		10. name of village .....
4. sub-sample		7. state .....		11. village area (0.00 acres).....
[2] investigation particulars				
1. investigator : name.....	roll no. ....	date (i) completion of drige experiments.....		
(ii) despatch.....		signature .....		
2. inspector : name .....		date (i) inspection .....	(ii) scrutiny .....	
(iii) despatch .....			signature .....	
3. scrutiniser, name .....		date (i) receipt.....	(ii) scrutiny .....	
(iii) despatch .....			signature .....	
[3] remarks by investigator				
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>				

\*delete whichever is inapplicable.

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

**CENTRAL\*  
STATE**

**ORIGINAL\***  
**DUPLICATE**  
**TRIPPLICATE**

**GOVERNMENT OF INDIA NATIONAL SAMPLE SURVEY : 1966-67**

**Schedule 5.01 : List of Plots**

RURAL

(Twentyfirst Round)

\*delete whichever is inapplicable.

Sch. 5.01-2

### [3] List of Plots (contd.)

**CENTRAL\***  
**STATE**

**ORIGINAL\***  
**DUPPLICATE**  
**TRIPPLICATE**

**GOVERNMENT OF INDIA NATIONAL SAMPLE SURVEY : 1966-67**

**Schedule 5.02 : List of Households**

**RURAL**

(Twentyfirst Round)

[1] identification particulars of village								
1. serial number	5. sample village	9. name of village						
2. zone-state-region	6. state	10. village area (0.00 acres)						
3. stratum	7. district	11. total number of households in the village.						
4. sub-sample	8. tehsil/taluk/thana*							

  

[2] investigation particulars								
1. investigator : name	roll no.	date (i) survey	(ii) despatch	signature				
2. inspector : name	date (i) inspection	(ii) scrutiny	(iii) despatch	signature				
3. scrutiniser : name	date (i) receipt	(ii) scrutiny	(iii) despatch	signature				

  

[3] list of households								
serial number of household	name of the head of the household	sampling serial number	serial number of household	name of the head of the household	sampling serial number	serial number of household	name of the head of the household	sampling serial number
(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)

\*delete whichever is inapplicable.

[3] List of households (*contd.*)

1. no. of revenue villages	5. adjusted highest survey no./samp. sr. no./total no. of h. hs.							
2. no. of hamlets/parts	6. no. of clusters/h.h. surveyed							
3. no. of census villages	7. cluster size (method 1/2)							
4. Highest survey/samp. no. (method 1/2)	8. number of plots surveyed (method 1/2)							
9. basic plots	10. multiplier*							
11. gross area under crops in sample plots (0.00 acres)								
pure/mixed	paddy	jowar	bajra	ragi	maize	wheat	barley	small millets
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Pure								
Mixed								
12. estimated gross area for village (acres)*								
Pure								
Mixed								

\*not to be filled up by investigator.

\*not to be filled up by investigator.

**Government of India**  
**National Sample Survey 1966-67**  
**Twentyfirst Round**  
**Schedule 5-0 : Village Summary (Spring)**

1. serial number
  2. zone-state-region
  3. stratum
  4. sub-sample
  5. sample village
  6. method code
  7. size of the village
  8. name of the village
  9. signature of investigator
  10. date of survey

(Address only)

**Stamp**

Stamp

Government of India  
National Sample Survey 1966-67  
Twentyfirst Round  
Schedule 51 : Crop cutting  
experiments (Winter)

- |                              |  |
|------------------------------|--|
| 1. serial number             |  |
| 2. zone-state-region         |  |
| 3. stratum                   |  |
| 4. sub-sample                |  |
| 5. sample village            |  |
| 6. name of village           |  |
| 7. signature of investigator |  |
| 8. date of despatch          |  |

(Address only)

**Stamp**

Stamp

To

HEAD,  
N.S.S. DESIGN & APPRAISAL  
INDIAN STATISTICAL INSTITUTE  
203, BARRACKPORE TRUNK ROAD  
CALCUTTA-35.

## NATIONAL SAMPLE SURVEY REPORTS ALREADY PUBLISHED

**Sl. 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 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 Preliminary Report on Employment and Unemployment (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 smaller than those covered by Industries (Development & Regulations), Act, 1951 (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-November 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 Reports 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 Village : A Study of Some Social and Economic Aspects (Tenth to Twelfth Rounds : December 1955-August 1957)

**NATIONAL SAMPLE SURVEY REPORTS ALREADY PUBLISHED**

Sl. No.

- 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 (Seventh Round : Oct. 1953-March 1954 and Eleventh to Thirteenth Rounds : August 1956-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 of 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 Areas, 1950-51 to 1953-54 (Eighth Round : July 1954-April 1955)
- 60 Tables with Notes on Farming Conditions 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 Supplementary Report on Employment and Unemployment (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 Household Receipts and Disbursements in Rural and Urban Areas (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 Establishment : Summary Results
- 94 Tables with Notes on Small Scale Manufacture : Rural and Urban (Household Enterprises smaller than the registered factories) (Fourteenth Round : July 1958-June 1959)

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- 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-June 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 Round : 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 (Fifteenth 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 the Annual Survey of Industries, 1962 : Sample Sector : Summary Results
- 121 Preliminary Estimates of Birth and Death Rates and of the Rate of Growth of Population (Eighteenth Round : February 1963-January 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 1964-June 1965)
- 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 Rounds : 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) (Fourteenth Round : July 1958-June 1959)
- 129 Report on Pilot Enquiry on Morbidity (Seventeenth Round : September 1961-July 1962)
- 130 Tables with Notes on Professions and Liberal Arts (Eighteenth 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 (Nineteenth 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 Land Holdings 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)

### NATIONAL SAMPLE SURVEY REPORTS ALREADY PUBLISHED

Sl. No.

- 148 Report on Special Survey on Household Entrepreneurial Activities in Aligarh Town, 1959-60
- 149 Report on Pilot Study on Non-Household Enterprises (19th Round : February 1965-June 1965)
- 150\* Tables with Notes on Housing Condition (17th Round : September 1961-July 1962)
- 151 Tables with Notes on Consumer Expenditure (Some Selected Items) (18th Round : February-June 1964)
- 152\* Tables with Notes on Urban Labour Force (18th Round : February 1963-January 1964)
- 153\* Differential Birth, Death and Infant Mortality Rates in Rural Households (15th Round : July 1959-June 1960)
- 154\* Tables with Notes on Couple Fertility (17th Round : September 1961-July 1962)
- 155\* Tables with Notes on Consumer Expenditure (Some Selected Items) 18th Round : Feb. 1963-Jan. 1964)
- 156\* Tables with Notes on Rural Employment and Unemployment (15th Round : July 1959-June 1960)
- 157\* Tables with Notes on Urban Employment and Unemployment (15th Round : July 1959-June 1960)
- 158\* Tables with Notes on Consumer Expenditure of Scheduled Tribe Households (18th Round : June 1963-May 1964)
- 159\* Tables with Notes on Some aspects of land Holding in Rural India (16th Round : July 1960-June 1961)
- 160 Some Results on the Land Utilisation Survey and Crop-cutting Experiments (20th Round : July 1966-June 1967)

Notes—Report Nos. marked \* are under print.

