THE NATIONAL SAMPLE SURVEY

TWENTIETH ROUND JULY 1965—JUNE 1966

NUMBER 147

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





Issued by

THE CABINET SECRETARIAT: GOVERNMENT OF INDIA

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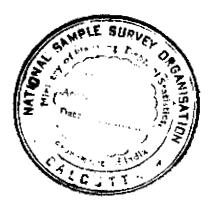
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Supervision of computing was entrusted to S. S. Bose, A. K. Chowdhury and S. K. Palit.

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

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

Number 147

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

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

CHAPTER I

INTRODUCTION

- 1.1 The National Sample Survey (NSS) in its 20th round (July 1965—June 1966) continued the collection of data on crop area and yield rate of major cereal crops. For rice, jowar, bajra, ragi, maize, wheat and barley, data on both acreage and yield were collected. In case of small millets, crop-cutting experiments were not planned and data on only area under the crop was collected. The main objective of the survey was to obtain estimates of production of the major cereal crops except small millets at All-India level for the Agricultural Year 1965-66. Besides this, the survey was also planned to obtain estimates of production and gross area of important cereal crops at state level by pooling the estimates obtained from the central and state samples. *In this round, village summary schedules of post card size have been introduced in a sub-sample of villages (selected for crop-cutting) so as to obtain quick preliminary estimates of major cereal crops at All-India level.
 - 1.2 Period of survey.—The survey started in July 1965 and ended in June 1966.
- 1.3 Geographical coverage.—The survey was carried out in the whole of rural India excluding Andaman and Nicobar Islands, Laccadive, Minicoy and Amindivi Islands, Ladak district of Jammu & Kashmir, the North-East Frontier Agency, Nagaland, Lungleh sub-division of Mizo hills in Assam, Mao, Ukhrul and Tamenlong sub-division of Manipur and the Union territories of Goa, Daman, Diu and Pondicherry.
- 1.4 Sampling design.—For the land utilisation survey, a stratified two stage sampling design with 4 independent sub-samples was adopted with villages as first stage units and clusters of plots as second stage units. For crop-cutting, a multistage design was used with villages, clusters of plots, sub-plots growing the specified crops and circular cuts within the selected crop plots of radius 4' as successive sampling units. The work of sub-samples 1 and 3 was assigned to one party of investigators and sub-samples 2 and 4 to another party of investigators. Crop-cutting experiments were planned in sub-samples 1 and 2 only. The details of the sampling design are given in Appendix I.
- 1.5 Number of villages planned.—For the central sample in each of the seasons autumn, winter, spring and summer, 8472 villages were planned to be surveyed for area survey in 4 sub-samples each of 2118 villages. Crop-cutting experiments were planned in each season in sub-sample 1 and 2 only in half the number of villages selected for area survey. Thus crop-cutting experiments were planned in 2118 villages per season in two sub-samples each of 1059 villages. For these 2118 villages, the village summery schedules for area survey and crop-cutting were to be filled up. Crop-cutting experiments were conducted on paddy, jowar, bajra, ragi, maize, wheat and barley in selected sub-plots growing the specified cereal crops in each season. Crop-cutting experiments were not planned for small millets.
- 1.6 Method of collection of data.—Data on land utilisation were collected by direct physical observation of the utilisation in sample plots. The same set of sample plots was surveyed for each of the four seasons. Data on yield were collected by harvesting a circular area of radius 4' located at random in a sub-plot growing the specified crop of the season. The harvesting of crop in a sample cut of radius 4' was done in two stages—first in a circle of radius 2'-3" and then in the annular portion. The yield of crop from the circle of radius 2'-3" from each sample cut was used for driage experiments to obtain the driage factors for getting the production of dry crop.
- in the central sample. The quick preliminary results based on village summary schedules and the results based on the complete material had been sent to the Government for each season as soon as the tabulation for each season was completed. For all the four seasons, the preliminary all-India estimates of areas and yield of major cereal crops were submitted by the second week of August 1966 and those based on complete material, by the second week of October 1966. This report gives the estimates of gross area and production of rice, jowar, bajra, ragi, maize, wheat and barley for all-India and also for some selected states. It also gives an estimate of gross area under small millets. Chapter two gives the concepts and definitions followed in the survey. The main results of the survey and also the preliminary estimates from the village summary schedules are given in Chapter three. The season wise all India estimates of acreage and production are presented in Chapter Four. Some of the statistical tables including the unweighted gross yield rate of crops, and state level estimates of production and gross area for some selected states are given in Chapter five. Appendix II gives the details of the sampling design and estimation procedure. The list of strata not covered by the preliminary estimates is given in Appendix-III. The facsimile of the schedules of investigation forms Appendix-III.

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

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

CHAPTER 2

CONCEPTS AND DEFINITIONS

- 2.1 Some of the important concepts and definitions followed in the survey are described below.
- 2.2 Sample village.—A revenue village corresponding to the census village was taken as the sample village for land utilisation survey and crop-cutting experiments. Generally the revenue village and census village were identical, but in some cases the two were not identical. When the selected census village was a part of a revenue village, the whole of the revenue village was surveyed. If on the other hand, the census village was formed by more than one revenue village, one of the revenue villages was chosen with equal probability for the purpose of the survey.
- 2.3 Season.—For each of the crops grown in a village, appropriate season was assigned on the basis of the period of harvesting of the crop in the village in a normal year. The months of harvesting in a normal year corresponding to the different seasons are given below:

S	eason of t	he c	rop						normal months of harvesting
alda	(1)							lliver Surr	(2)
SILE.	autumn	-	A LA	100	1.00	113.5	LE LINE	Exit	August to October
	winter				nien[13.500	ente be		November to January
	spring			u *Lex		e faut	w He	ni din	February to April
	summer			2-1	No.		majel	Pul	May and June

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

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

- 2.4 Proper time of visit for land utilisation survey and crop-cutting experiments.—The land utilisation survey was carried out in a village in proper time with respect to cereal and pulse crops for each of the seasons autumn, winter, spring and summer. The proper time for area survey for a season was the period when the sowing of all the crops of that season had been completed but harvesting had not yet started and the crops were unmistakably identifiable. The same set of plots were surveyed for each season. Crop-cutting experiments were carried out when the crop was ripe and ready for harvesting in the selected fields. The sample fields for crop-cutting were selected afresh for each season.
- 2.5 Plot.—For the purpose of the enquiry, a plot was defined as a distinct patch of land generally having a major survey number.
- 2.6 Pure crop and mixed crop.—When only one crop was grown in a patch of land, it was considered as growing a pure crop. A patch of land which was growing two or more crops in intermixture was taken to be under mixed crop. In case of mixed crops, the components might be sown (or harvested) at the same time or at different times. Sometimes the components might be at different stages of growth (e.g. one of the components might be harvestable while others might be just sprouting up from the ground). When a crop was grown in an orchard in between the plants of the orchard it was considered to be under mixed crop. Also crops grown in alternate strips, each of width less than 8' were treated as mixed crops.
- 2.7 Sub-plot.—In a plot, a distinct patch growing a crop of a particular mixed crop was treated as a sub-plot. A plot was considered to have as many sub-plots as there were different patches growing the crops singly or in mixture.
- 2.8 Ail or bund.—A plot is demarcated generally by a strip of raised land commonly known as ails or bunds. Besides these, there may be ails inside the plots. Some of the inside ails will be more or less of a permanent nature having almost the same height as boundary ails. These inside ails were treated in the same manner as boundary ails.
- 2.9 Gross area under a crop—If a patch of land was under a mixed crop, then the total area under the mixed crop was taken to be the gross area under each of the components of the mixed crop. When a crop was grown pure in a patch of land, the gross area under the crop was the same as the area under the crop.

CHAPTER 3

SUMMARY RESULTS

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

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

Table (3.1): Number of sample villages planned and number of surveyed for land utilisation by seasons and subsamples.

(All-India)

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

TI		N					0.1		127.86		nu	ımb	e: of vill	lages surve	yed in sub-sa	mple		number
	season								1		2	- 1	3	4	1 & 3	2 & 4	1 to 4	planned in 4 sub- samples
	(1)		-444	d.	TU.			(als	(2)	(Sept.)	(3)		(4)	(5)	(6)	(7)	(8)	(9)
*	autumn		er .	je li	100	-1		NX I	2011	in.	1829	60	1991	1757	4002	3586	7588	8472
	winter								2031		2012		2036	1966	4067	3978	8045	8472
	spring	(= W		¥ 10			8 H	1111	2065	S-Quelle	1974		2057	1976	4122	3950	8072	8472
	summer						151		206	4	1964		2065	1962	4129	3926	8055	8472

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

(All-India)

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

					nur	nber of	villages u	rveyed in	sub-sam	ple			
			better	DISS	1		1	2			total		number
season			HET.	repor- ting crop	not repor- ting	total	reporting crop	not repor- ting	total	reporting	not report- ing	total	planned in 2 sub- samples
(m/m) - 3				Crop	crop		DECL	crop		5.01	crop		
(1)	HES .	NO.	BREE	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
autumi	n .	Common Co	The Co	720	275	995	639	217	856	1359	492	185	2118
winter			· .	725	293	1018	660	297	957	1385	5 9 0	1975	2118
spring			* *	588	446	1034	580	399	979	1168	845	2013	3 2118
summe	er .	Wasa Livi	of the latest	82	957	1039	52	911	963	134	1868	2002	2 2118

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

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

(All-India)

					St	ub-sample 1		sub-sa	imple 2			total	unkiev
crop					pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	No. of			DE LOES	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1. paddy	1.5%	albu.		nii be	5054	297	5351	4578	243	4821	9632	540	10172
2. jowar		(0.8)	lute o tox	11-2	878	2303	3181	748	2235	2983	1626	4538	6164
3. bajra	da i		100	man)	496	1398	1894	560	1172	1732	1056	2570	3626
4. ragi					915	505	1420	728	404	1132	1643	909	2552
5. maize					494	1036	1530	570	944	1514	1064	1980	3044
6. wheat					860	2348	3208	780	2325	3105	1640	4673	6313
7. barley		to			95	928	1023	101	1160	1261	196	2088	2284
8. total					8792	8815	17607	8065	8483	16548	16857	17298	34155

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

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

(All-India)

											p-cutting onducted	producti	on (000 tonr		ercentage lifference*
crop									sub- sample	sub- sampl	total	half- sample 1	half- sample 2	com- bined	
(1)	131	miye	hari	della	dada.	a-las	40 1	ac man	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. paddy					*				5351	4821	10172	30507	32182	31344	-5.34
2. jowar			1		- 185	inc.		(Interp	3181	2983	6164	10566	10650	10605	-0.79
3. bajra									1894	1732	3626	4309	4838	4576	-11.56
4. ragi		• 0	100						1420	1132	2552	1377	1420	1398	-3.08
5. maize			900					que.	1530	1514	3044	5728	6585	6154	-13.93
6. wheat			1					14	3208	3105	6313	12475	11675	12074	6.62
7. barley									1023	1261	2284	2438	2644	2542	7.79
8. total	91	. 5	7	1281		RAE .		TIS .	17607	16548	34155	67400	69994	68693	-3.78

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

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

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

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

				gross area	(000 acre	es)			gross	per-
crop		sub- sample 1	sub- sample 2	sub- sample	sub- sample 4	half- sample 1	half- sample 2	half- sample 1 & 2 com- bined	area (000) hec- tares	ecntage differ- ence*
(1)	The state of the s	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1. paddy		. 86299	90566	83396	86668	84848	88617	86731	35100	-4·35
2. jowar		. 84321	51543	56449	59550	52384	55545	53964	21839	-5.86
3. bajra	0.01	. 31612	33096	41058	38844	36333	35969	36151	14630	1.01
4. ragi	*	. 6173	7637	6086	7247	6133	7442	6787	2747	-19.29
5. maize	-	. 13230	13250	16220	17085	14722	15167	14942	6047	-2.98
6. wheat	150	. 39965	43001	39677	35460	39820	39232	39526	15996	1.49
7. barley		. 9626	9556	8507	9177	9067	9366	9216	3730	3.24
8. sub-total .	-	. 235226	248649	251393	254031	243307	251338	247317	100089	-3.25
9. small millets		. 9845	13249	12509	13589	11180	13419	12295	4976	-18-21
10. total	7.	. 245071	261898	263902	267620	254487	264757	259612	105065	-3.96

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

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

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

(All-India)

								estimated	percent	age of are	a under
crop								gross area (000 acres)	pure	mixed crop	total
(1)	10000	21072	11111	- Name	- Again	20100		(2)	(3)	(4)	(5)
l. paddy	• 1777	whi.	Take the			· Para	(*x w//)	. 86731	95.32	4.68	100.00
2. jowar	.1091	-Miles				-4/10/8/		53964	23.26	76.74	100.00
3. bajra	Auto.	1	(.))en-	.187.				. 36151	30.02	69.98	100.00
l. ragi	. 375%	. oht.	.7807.	**************************************	vacin.	horier		6787	40.71	59.29	100.00
i. maize								. 14942	48-49	51.51	100.00
6. wheat		AL SUPE	THE PARK	COLUMN	104763	- Property of	*	. 39526	36.24	63.76	100.00
7. barley	area.	•11	*(IS) 74		- 20EM	- The last		. 9216	12.55	87.45	100.00
8. small m	nillets							. 12295	49.91	50.09	100.00

3.6.1 The proportion of area under pure crop was maximum for rice (more than 95 per cent) and for the remaining crops it varied from 13 per cent (for barley) to about 50 per cent (for small millets)
2—7 CSO(ND)/63

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

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

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

-1000	ORD.	elle dei			pi	roduction	(000	tonnes)	126	-diameter		yield (kgm/	percen-
				1	964-65			1965-	66			re)	tage difference*
	crop			half- sample	half- sample 2	com- bined	half- sample	half- sample 2	com- bined	percentage diffe- rence*	1964- 1965	1965- 1966	
	(1)			(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. rice	- WHIEE	- (23)		. 39940	37888	38913	30507	32182	31344	1 —19·45	433	361	-16.63
2. jowar	. WHITE	1000		. 11401	11305	11355	10566	10650	10605	6.61	216	197	8-80
3. bajra	-	. 1815		. 3804	4739	4270	4309	4838	4576	7 · 17	126	127	1.01
4. ragi				. 2070	1941	2005	1377	1420	1398	-30·27	304	206	-32.24
5. maize	CHEE	Edm.	. 57	. 4820	6066	5444	5728	6585	6154	13.04	419	412	-1.67
6. wheat	. t (-0a.	a Sense	. 50	. 14683	15302	14992	12475	11675	1207	4 -19.46	338	305	-9.76
7. barley	·amei	· acate	. 96	. 3245	2 2751	2998	2438	2644	2542	2 —15.21	281	276	-1.78
8. total	. prof		. 30	. 79960	79992	79977	67400	69994	68693	3 —14·11	×	×	×

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

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

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

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

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

					gro	ss area (000 acres)	il suppli-	HE OF THE	
crop				han thinks	1964-65	i vinat me	e of genera	1965-66	: (0 8) 8	- 1
				half- sample	half- sample 2	com- bined	half- sample	half- sample 2	com- bined	diffe- rence*
(1)	725	Laborate		(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. rice				92566	87162	89865	84848	88617	86731	-3.49
2. jowar				54463	50823	52642	52384	55545	53964	2.51
3. bajra				34048	33958	34002	36333	35969	26151	6.32
4. ragi	-40-04F	. 15100		6961	6237	6597	6133	7442	6787	2.88
5. maize	. At the	A. 11 (A)		12018	13982	12999	14722	15167	14942	14.95
6. wheat	\$10.00	.100		43791	44873	44332	39820	39232	39526	-10.84
7. barley	* Fritz	. 100		10906	10426	10666	9067	9366	9216	-13.59
8. sub-total (1 to 7)		- 41.5		254753	247461	251103	243307	251338	247317	-1.51
9. small millets	"Marel	-dien		10287	12223	11265	11180	13410	12295	9-14
10. total (8 & 9)		•		265040	259684	262368	254487	264757	259612	-1.03

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

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

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

(All—India)

crop						non-NSS	(official) e	stimates			
						(part	ally revise	d)*	NS	S estimat	es
					11012	1964-65	1965-66	percen- tage differ-	1964-65	1965-66	percen tage differ-
		The same of the sa						ence			ence
THE PERSON	Civil .	7.010	1000	1,110	1135	1912	- teres	(INEX			mad 1
(1)						(2)	(3)	(4)	(5)	(6)	(7)
CARRY ST	First	-	1000	1500	/EGYU	TRANS.	QRE).	NINE.	- 4. 7		28/10/10
. rice .	100	OBUGE.	·	• 71 (1)	· TROPE	39,034	30,655	-21.47	38,913	31,344	-19.45
jowar .		Tout.	. Helic	- 9140	\$000	9749	7527	-22.79	11355	10001	-6.61
. bajra .	Man v		£539971	* 004st	. 42 (%)	4454	3655	-17.94	4270	4576	+7.17
ragi .		case 1				1898	1176	-38.04	2005	1398	-30.27
. maize .	Y					4658	4760	+2.19	5444	6154	+13.04
. wheat .	Bolst :	e de la company				12290	10424	-15.18	14992	12074	-19.46
. barley .	sample.	hat in ball	ases intana	to sle b	at matter feelules) as	2523	2377	— 5·79	2998	2542	-15.21
3. total .	inistelli	egitero-luo-	un juien	· denta	one word	74606	60574	-18.81	79977	68693	-14.11
non teorn	mbrbad h	52 y 1 0 0	net specifi	n die o	ura banin	rdo muco	the pulls	Appropries	arts time as	to fair to	Dollar.

^{*}Source : Agricultural Situation in India

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

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

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

(All-India) Number of villages planned per season per sub-sample=1059

													number o	f villages an	alysed
season													sub- sample 1	sub- sample 2	total
(1)	10.00	2150	10 XI	7 :									(2)	(3)	(4)
autumn .										mx -	-		995	978	197
vinter .			V							•0013) las	910	921	183
pring	ar a (e	in the	di in	in the time	 -	mai(1)	779.	Halfalas	-	Prop N		FIRM	869	843	171
ummer .		inne po			-		•:			•	The state of	ar Apire	780	722	150

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

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

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

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

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

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

(All-India)

									production nes) from	percentage difference*	estimated gr (000 acre		1 ercentage difference**
crop								post card schedule	detailed schedule		post card schedule	detailed schedule	
(1)		OTELL OTELL	ATIO		7 /		111/2	(2)	(3)	(4)	(5)	(6)	(7)
1. rice							10122	33,894	31,344	8.14	89,698	86,731	3.42
2. jowar								9,045	10,605	-14.71	45,622	53,964	-15.46
3. bajra				*	1 8			4,530	4,576	-1.00	32,541	36,151	-9.99
4. ragi								1,517	1,398	8.51	6,852	6,787	0.96
5. maize						1		6,066	6,154	-1.43	13,629	14,942	-8.79
6. wheat								12,462	12,074	3.21	40,695	39,526	2.96
7. barley							(3)13	2,149	2,542	-15.46	7,971	9,216	—13·51
8. sub-total	(1 to	7)						69,663	68,693	1.41	2,37,008	2,47,317	-4.17
9. small mil	llets		Lab	TENDE .		•		**	**		10,830	12,295	-11.91
10. total (8 8	& 9)		-4								2,47,838	2,59,612	-4.54

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

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

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

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

CHAPTER 4

SEASON-WISE ESTIMATES

- 4.1 The estimates for each crop presented in the earlier chapter was the aggregate for the four seasons—autumn, winter, spring and summer for the agricultural year 1965-66. The data were collected separately for each season and the estaimates for each crop were obtained for each of the seasons separately. The season-wise estimates of production and gross area at all-India level are given in this chapter.
- 4.2 Table (4.1) gives the all-India estimates of production and gross area under each crop for each of the seasons autumn, winter, spring and summer. The season-wise estimates of production and gross area expressed as percentages of the corresponding estimates for all the four seasons together are also given based upon the combined estimates.

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

				00.5	The same of	The sale	estin	mates of			percentade	dietribu
					production in	(000 tonn	es)	gross	area (000;	acres)	percentage tion based bined estin	on com-
season					half sample	half sample 2	com- bined	half sample	half sample	com- bined	produc-	gross area
00,001		U G	L. Web	101.2	L Smill	- 6.	300,0	137.0			2. 12. 24	
(1)			* X =		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
							1. rice					0.00070
autumn		1			6,228	6,277	6,253	22,975	23,332	23,154	19.95	26.70
winter		*	· sin /s		21,862	23,367	22,613	57,008	59,588	58,296	72 · 14	67.21
spring	*16		* 100		1,852	1,857	1,855	3,794	4,294	4,044	5.92	4.66
summer					565	681	623	1,071	1,403	1,237	1.99	1.43
total					30,507	32,182	31,344	84,848	86,617	86,731	100.00	100.00
					NAME OF THE PARTY	10851	2. jowar	1 1 1 1 1 1				
autumn	•				909	1,938	1,421	7,390	7,376	7,383	13.40	13.68
winter					6,146	6,040	6,093	31,344	33,700	32,523	57.46	60.27
spring					3,345	2,566	2,955	13,302	14,242	13,771	27.86	25.52
summer					166	106	136	348	227	287	1.28	0.53
total		1			10,566	10,650	10,605	52,384	555,45	53,964	100.00	100.00
		1		FIR	*	ingen m	3. bajra			THE N		
autumn					3,544	4,348	3,949	30,863	31,232	31,047	86.30	85.89
winter	. "	· .	1. 19		690	457	573	5,195	4,590	4,893	12.52	13-53
spring					7	19	13	167	87	127	0.28	0.35
summer	i.P	1.	. Her		68	14	41	108	60	84	0.90	0.23
total	100	(10)		all the	4,309	4,838	4,576	36,333	35,969	36,151	100.00	100.00
						ALC: D	4. ragi	SE VE	1143	2		
autumn	•			· see	551	809	680	2,021	3,045	2,533	48.63	37.32
winter	•	•			489	408	448	3,370	3,966	3,668	32.05	54.04
spring					308	170	239	659	349	504	17.10	7.43
summer	•		100	1	29	33	31	83	82	82	2.22	1.21
total				Pile !	1,377	1,420	1,398	6,133	7,442	6,787	100.00	100.00

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

				1 281	19.01 18.	estir	nates of	=	pe	ercentage di based on co estimate	mbined
season		aparina Una capa uparina	manyasala Maksidi Manasala	production	n in (000 to	onnes)	gross	area (000	acres) -	Cstimate	
		oler chida	e. interest in series in ottodie in	half sample	half sample 2	combined	half sample 1	half sample 2	combined	- produc- tion	gross area
(1)	Cannon b	Red onto	2017.014	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	00-7-00	A SECTION TO	Mana antina	The second	5	. maize	at to come				
utumn	in a contract of	11.10		5,640	6,460	6,049	14,397	14,896	14,645	98.30	98.02
vinter	nie begin			14	9	11	77	15	45	0.18	0.30
oring			15 0000 100	54	111	82	181	118	150	1.33	1.00
ummer	-autorn	• -m*/1	i led	20	5	12	67	138	102	0.19	0.68
otal				5,728	6,585	6,154	14,722	15,167	14,942	100.00	100.00
- (8)	3.00		× 50)	191		6. wheat					
utumn					- sin 1		1		1		
vinter		NELW T	Bergs.	24,000	W. 100	14 (15,5)	1	47	24	200	0.06
pring	N/ES	with the	000,00	12,416	11,576	11,995	39,600	38,675	39,137	99-18	59.(
ummer		. 1100		59	99	. 79	218	510	364	0.82	0.99
otal				12,475	11,675	12,074	39,820	39,232	39,526	100.00	100.0
1018111						. barley	×				
utumn	tonial v	*50 8*	Versit.		131	W.C.					
vinter	701.10		*007.78	14.71	**	outa	0111			••	Twi
pring	1000	1000	*958.21	2,426	2,642	2,535	9,002	9,320	9,161	99.72	99.40
ummer	1000	·462 ·	×155.	12	2	7	65	46	55	0.28	0.60
otal	*00-001	* vient*	. 41.00	2,438	2,644	2,542	9,067	9,366	9,216	100.00	100.0
					8	seven crops					
utumn	. 00.45	. 794.18		16,872	19,832	18,352	77,647	79,881	78,763	26.72	31.85
vinter	. 51-97	. (11)	. 9	29,201	30,281	29,738	96,995	1,01,906	99,449	43.29	40.2
pring	- 1.	,	J. 10.	20,408	18,941	19,674	66,705	67,085	66,894	28.64	27.0
ummer	. 00.0	AFE	.00.	919	940	929	1,960	2,466	2,211	1.35	0.8
otal	.00000		- rue A	67,400	69,994	68,693	2,43,307	2,51,338	3 2,47,317	100.00	100.0
					9. s	mall millets					
utumn				**			6,335	6,743	6,538	• • •	53 - 18
vinter							4,413	6,325	5,369		43.6
pring	T						362	238	298	**	2.42
ummer			No.				70	1,13	90	* *	× 0·73
	00,000	DIE	THE STATE OF THE S	24130	(3.00		11,180	13,419	12,295	1.14	100.00

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

CHAPTER 5

STATISTICAL TABLES

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

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

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

							Numb	er of sam	ple villag	es surve	ved for la	nd utilis:	ation surv	ey in the	season			THE S		000	-
Applied to the same of the sam	no. of sample			utumn	260			, john	winter		4		- 865	spring		- Hel		summe	r	93.	8.
state	villages planned per sub- sample and season	s.s. 1	s.s. 2	s.s. 3	s.s. 4	total	s.s. 1	s.s. 2	s.s. 3	s.s. 4	total	s.s. 1	s.s. 2	s.s. 3	s.s. 4	total	s.s. 1	s.s. 2	s.s. 3	s.s. 4	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
Rajasthan	. 96	92	94	92	94	372	92	92	91	93	368	94	95	95	96	380	95	96	96	96	383
Punjab	. 90	83	82	74	90	329	89	86	89	89	353	90	90	90	90	360	90	90	89	89	358
Jammu & Kashmir	. 90	64		68		132	63	57	66	54	240	73	66	70	68	277	87	62	88	61	298
Delhi	. 6	6	6	6	6	24	6	6	6	6	24	6	6	6	6	24	6	6	10	6	18
Himachal Pradesh	. 6	6	6	3	5	20	6	6	6	5	23	6	6	6	5	23	6	6	1	6	19
Uttar Pradesh .	. 264	258	263	260	262	1,043	258	264	264	260	1,046	262	257	263	260	1,042	262	254	261	254	1,031
Madhya Pradesh .	. 180	178	171	175	175	699	176	176	178	176	706	178	160	178	172	688	171	177	175	176	699
Bihar	. 192	191	186	187	187	751	192	189	186	190	757	192	182	191	182	747	187	165	189	169	710
Orissa	. 90	75	50	58	35	218	82	79	68	67	296	80	67	84	59	290	84	69	87	66	306
West Bengal	. 138	120	96	131	94	441	131	125	136	121	513	136	120	131	119	506	134	102	136	106	478
Assam	. 99	79	77	77	63	296	83	84	89	70	326	83	80	80	73	316	83	88	81	83	335
Manipur	. 4	8 . 47	46	46	45	184	47	46	47	45	185	48	46	47	45	186	48	46	46	46	186
Tripura	. 4	8 39	39	41	41	160	40	43	43	44	170	42	44	45	45	176	43	44	45	46	178
Andhra Pradesh .	. 16	8 165	133	166	107	571	163	162	164	157	646	168	158	166	159	651	167	166	167	163	663
Madras	. 15	6 155	130	155	98	538	153	144	155	137	589	155	151	156	146	608	150	150	154	149	603
Kerala	. 9	0 89	90	90	90	359	90	90	90	90	360	87	88	88	89	352	90	90	90	90	360
Gujarat	. 9	0 89	88	88	89	354	89	90	86	89	354	90	88	89	89	356	88	86	87	88	349
Maharashtra	. 17	4 173	170	172	174	689	171	174	171	174	690	173	169	171	173	686	173	168	174	167	682
Mysore	. 10	2 102	102	102	102	408	100	99	101	99	399	102	101	101	100	404	100	99	99	101	399
All-India	. 2,118	2,011	1,829	1,991	1,757	7,588	2,031	2,012	2,036	1,966	8,045	2,065	1,974	2,057	1,976	8,072	2,064	1,964	2,065	1,962	8,055

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

		no. of								8-0 500 107	00 101	crop-cutti	ng experime	cirts i	ii the seasor	1.	-		to the last	
		village planne for eac	s d		aut	umn				winter					spring				summer	
state	19 19 19 19 19 19 19 19 19 19 19 19 19 1	sub-sam and sea	ple son	sub sample 1	218 218	sub- sample 2	total	104	sub- sample	sub samp 2	ole	total	sub- sample	17e	sub- sample 2	total		sub- ample	sub- sample 2	total
(1)		(2)	(3)	100	(4)	(5)	13	(6)	(7)	15	(8)	(9)	40	(10)	(11)	- (1)	(12)	(13)	(1
jasthan	13 . 41	- 40	48	45		47	92		47	46	40	93	47	92	47	94	40	48	48	9
njab	29	25	45	40		41	81		44	44		88	45		45	90		45	45	
amu and Kashmir .	W 1300	· be	45	30			30		32	29		61	34		34	68		43	32	
hi	4 129	. 20	3	3		3 -	6		3	3		6	3		3	6		3	3	
nachal Fradesh	i tet	180	3	184 3		3	6		3	3		6	181 3		3	187 6		3	3	
r Pradesh	159	133	132	131		128	259		128	129		257	130		129	259		131	121	2
lhya Pradesh		SHY	90	89		84	173		87	87		174	88		81	169		86	90	1
ir in the same is a second			96	95		92	187		96	94		190	96		89	185		96	87	1
sa			45	33		20	53		44	43		87	40		35	75		44	35	
t Bengal			69	59		32	91		65	56		121	70		58	128		67	49	1
m		100	45	37		32	69		45	35		80	45		41	86		44	43	31
ipur		201	24	24		12	36		23	18		41	24		22	46		24	22	
ura			24	21	VAL	22	43		20	23		43	21		22	23		21	22	
nra Pradesh			84	82		47	129		81	71		152	84		77	161		84	83	1
ras			78	78		72	150		75	50		125	77		70	147		73	67	1
ıla			45	44		44	88		45	45		90	44		45	99		45	45	
rat			45	44		45	89		44	45		89	45		44	99		44	43	
arashtra	. , .		87	86		83	169		87	87		174	87		83	170		87	80	1
ore			51	51		49	100		49	49		98	51		51	102		51	45	1
ndia		1,0	159	995		856	1,851		1,018	957			The state of the s	Cr and Sp	7.85			2072		

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

Andreadans and	state					au	tumn	TIGR HS	-85 v	vinter	10	s	pring		s	ummer	-	all s	easons	
Action 1. 14	State					pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
Mathematical	(1)					(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	•					8	30	8	3	1	1/4	17		15			**	11	1	12
Punjab			2			42	44	42	90		21						••	42	**	42
Jammu & Kashmir			٠.			82	1:	82	160		199	.,				• •	**	82		82
Delhi					:	**	.5	- 25	311		1 1 2 2 1							sii.	**	
Himachal Pradesh				ě		6		6	13.2		500				10			6	55	6
Uttar Pradesh .		i.	1			284	94	378	259	13	272						**	543	107	650
Madhya Pradesh						189	12	201	183	3	186	**						372	15	387
Bihar				*		91	11	102	479	23	502						**	570	34	604
Orissa		*	•	*		72	7	79	233		233							305	7	312
West Bengal .					1.	89	- 2	91	328		328					••		417	2	419
Assam	•		*		*	34	**	34	217	1.00	217							251		251
Manipur	10.					39	**	39	132		132	4.						171		171
Tripura					-	82	4	86	89		89	10	**	10		***		181	4	185
Andhra Pradesh .						45	19	64	330	1	331	102	(81	102	50	(143)	50	527	20	547
Madras						163		163	193	1	194	251	13	264	59		59	666	14	680
Kerala		*				197	24	221	217	1111	218	35	missed	35	6	THE PARTIES.	6	455	25	480
Gujarat						70	24	94	6		6			***				76	24	100
Maharashtra .						193	29	222	47	3	50	**	ablant	4.		ANALYSIA T		240	32	272
Mysore						29	11	40	69	1	70	28		28	13	***	13	139	12	151
All-India .		*				1,715	237	1,952	2,785	47	2,832	426	13	439	128	erica .T	128	5,054	297	5,351

5

sub-sample: 1

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

Contract of the Contract of th							autumn	100		winter			spring		12	summer	N. B.	130	sub-samp	
State					-	pure	mixed	total	pure	mixed						summer		le	all seasons	200
(1)	. 1	-			-			THE STATE OF THE S	2 130	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	tota
				24		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan .	••					5	1	6			19		311	10		-		1111		-
unjab						53		53					**	•			**	5	1	
ammu & Kashmir			*							-			•		**		••	53	**	5
elhi						1		1			-058				**	11	**	93		
imachal Pradesh						6		6		••	77	••	**		**		••	1		
ttar Pradesh .						284	99	383	263								**	6		
adhya Pradesh .				15		177	21	198		4	267	•••						547	103	6
har						53	3		156	1	157							333	22	3.
riano			*	*	•			56	463	36	499							516	39	5
est Rengal			*	•	•	32		32	233		233	3		3	12		12	280		2
			•	*	•	30	2	32	274		274							304	2	3
ssam			•		•	66		66	168		168							234		2
fanipur	-					••		4.5	96		96							96		
ripura						88	10	98	108		108	12		12	6					
ndhra Pradesh .					•	22	2	24	298	2	291	81		81		**	6	214	10	2:
ladras						175		175	67	8	75	251	4		42	••	42	434	4	4:
erala						208	6	214	192	1	193	70		255	74	in the	74	567	12	5
ujarat	·					65	17	82	14		14			70	6	**	6	476	7	41
aharashtra						225	13	238	62			- "	Libra .	**		mme!*	••	79	17	
ysore						23	5	28		4	66	••	**	••				287	17	3(
		-	7				3		99	4	103	24	**	24	**	**		146	9	. 15
ll-India				•		1,513	179	1,692	2,484	60	2,544	441	4	445	140	(mgay	140	4,578	243	4,82

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

		Labor.		-	-								100	15	118	In .	2 15	212	sub-san	aples: 1	and 2 co	mbined
· Million in the			10	*			-		autumn			winte	er 300		spring			summer		, 10	all seasons	37H
state			*	*				pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	tota
(1)	4						- 2	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16
Rajasthan .		200			- 10			13	** 1	14	3	1	4							16	2	1
Punjab .			**	9				95	·	- 95		4 · ·	34.									
Jammu & Kash	mir							82		82					••			••		95	** **	9
Delhi .				-				1		1	**				••				**	82	.,	8:
Timachal Prades	sh						١.,	12	3	12		0	13	*.*						1	8	15
Ittar Pradesh			- 40					568	193	761	522	17	539	•••	1888			4.**		12	8 ** -	15
adhya Pradesh								366	33	399	339	4	343							1,090	210	1,30
nar .						•		144	14					**				**		705	37	74
The Parties	14			5.€5	•	•				158	942	59	1,001			••	2 .6		•••	1,086	73	1,15
D T	terb.		*					104	7	111	466	**	466	3		3	12		12	585	7	599
	•	•				•		119	4	123	602		602	**				•••		721	4	725
	time.	*	*					100	***	100	385		385						**	485		485
Ianipur .		• ~	•		*		N	39	** **	39	228		228		**	***				267		267
ripura .	•							170	14	184	197		197	22	***	22	6		6	395	14	409
ndhra Pradesh	•				•			67	21	88	619	3	622	183		183	92	194	92	961	24	983
ladras .		•						338		338	260	9	269	502	17	519	133		133	1,233	26	1,259
erala .				*			bots	405	30	435	409	2	411	105	Anna	105	12	imizod	12	931	32	963
njarat .								135	41	176	20		20							155	41	196
aharashtra					T CT			418	42	460	109	7	116		elyane:			unment	••	527		
ysore .	-				•			52	16	68	168	5	173	52		52	13	.,	13	285	49	576 306
l-India .								3,228	416	3,644	5,269	107	5,376	867	17	884	268	mby mulice	268	9,632	540	1,0172

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

				*		+in	autumn			winter			spring			summer			all season	ns
states				. 1	oure		mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	-	*	4.		(2)	308	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan		-	*		28	150	28	56	32	68	100	25.		.35	6			60	96	156
Punjab					4		***	4	778		518	-						4		4
Jammu & Kashmir .								.100	2012		7010							962		
Delhi							1	.157	0.5		Py S								i i	**
Himachal Pradesh .				10,00			3				100		**	D. 0	15		15	503	-324	
Uttar Pradesh.			že:				2	2	8	378	386							8	380	388
Madhya Pradesh .					2		12	14	16	334	350		12	12			**	18	358	376
Bihar							2	2	8	63	14						**	8	8	
Orissa								13	4	8	12					**				16
West Bengal		•							-						**		**	4	8	12
Assam								. 84				•	••		**	***	1	95	••	••
Manipur	•			- 1				-							**	**	**	95		
Tripura													**		**	4	••	10		••
Andhra Pradesh .					30		110	140	68	81	149	36	FO.			**	**	**	••	••
Madras					50		14	64	32	122	154		50	86	12	• (15)	12	146	241	387
Vanala												32		32	126	2 Unixed	128	240	138	378
Cuiarat					18		18	36	20	• 3 (3) (3)		- 13	A STREET	Therei				•••	••	••
Maharashtra							20	20	38	42	80	44		44	* *	**		110	60	160
Mirsone		•	•		16		48		18	476	494	160	222	382				178	718	896
aysore		•	•		10		70	64	10	130	150	74	118	192	12	••	12	112	296	408
ll-India				1	48		254	402	234	1645	1879	346	402	748	150	2	152	878	2303	3181

National Sample Survey : soth Round: July 1965 - June 1966

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

sub-sample: 2

winter spring summer al	l seasons
total pure mixed total pure mixed total pure mixed total pure r	nixed tota
(4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14)	15) (16)
64 26 36 62 42	84 126
24 4	20 24
	.0 15
362 362	362 362
18 22 369 391 22 3	187 409
4 4 14 18 2 16 18 6	34 40
	11 11
	uli in
130 20 104 109	
	160 314
	170 358
19 22 40 62 24 2 26	46 106
munic.	685 856
	287 388
102 3 137 140 52 94 146 101 368 189 1662 1851 345 329 674 82 8 90 748	

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

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

	-	autumn			winter			spring			summer			all seasons	
state	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan	. 44	76	120	58	104	162						- 7.0		-	
Punjab	. 8	20	28									**	102	180	282
ammu & Kashmir							.,	**		**	**	••	8	20	28
Delhi									•	**	3.5		••		(*/*
Himachal Pradesh							**			**	- **	••	**		
Jttar Pradesh		2	2	8	740	748		10	10	**	**		-0	**	
Iadhya Pradesh	. 2	30	32	38	703			••	**	**	**	**	8	742	750
ihar		6	6	12		741	**	12	12		**	- 9	40	745	785
Drissa					20	32	.2	16	18	*.*	**		14	42	56
Vest Bengal	J	::	::	4	.8	12		**	**		**	44	4	8	12
ssam	•	::	22	**	**		••	**	**		**	-17	1.	1	
Manipur	•	30.	- 11	11	*1	1.5	**	••		**	**			50	
rinuea	i ie	**	***	30	34	100				**			- 1.	.,	
andhra Pradesh	•	**	•••							.,			**	**	
Madras	. 46	142	188	128	175	303	102	84	186	24		24	300	401	701
	. 86	32	118	58	254	312	88	12	100	196	10	206	428	308	736
ierala	•				••		**								
ujarat	. 32	22	54	60	82	142	68	2	70				160	106	266
Iaharashtra		56	56	44	954	998	305	393	698		Internal A		349	1403	1752
lysore	. 62	104	166	13	267	280	126	212	338 .	12		12	213	583	796
ll-India	. 280	490	770	423	3307	3730	691	731	1422	232	10	242	1626	4538	

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

Vanantamen		14	19	12	20	10							S	sub-sample	: 1
state		autumn	262		winter			spring		. 23	summer	52	120	all seaso	ns
Make.	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	tota
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16
Rajasthan	56	252	308		•••	***	• • •		**	***			56	252	308
Punjab	64	24	88		***	**-	***					••	64	24	88
ammu & Kashmir	2	6	8	•••		••••	••	•••	**	3.07	**	•••	2	6	8
Delhi	2	6	8		•••					•••	•••	••	2	6	8
Timachal Pradesh			•••		0.6			**	•••	••				5 3	
Uttar Pradesh		124	124	2	146	148	••.	••-	•	••			2	270	272
Madhya Pradesh	84	40	48	,	100	100		**.	••	.,		****	8	40	48
ihar			• • •	•.•.	*,*,	***	• **	••	.,	**	••	• • •			
Drissa	• • • • • • • • • • • • • • • • • • • •		114	•••	•••	***			**		**		***		
West Bengal	**	••	• •	-	• • •	**	**	***	**	**.	•••				
Assam	20	- 14	stre	••		**	••	**	**				**	•	
Manipur		24.9	215		**	**	**				•••		***	710	
Tripura					**								••		1 YE.
Andhra Pradesh	84	102	186	(9)	22	22	(9)	760	=.40)	12	(177)	12	96	124	220
Madras	52	94	146	14	30	44	bruc	HITZUIT		8	lmsco	8	74	124	198
Kerala	m				' ··	2000 (1000 and 1000 and 1	••	**	**			Louisi		- Indiana	
Gujarat	74	168	242		2	2	2	whiens	2	60		60	136	170	306
Maharashtra	38	320	358	2	2	4	**	outine.	••		SHIMINGS		40	322	362
Mysore	8	50	58	8	10	18	••	••	**	••			16	60	76
All-India	388	1186	1574	26	212	238	2	STOW-MOL S	2	80	बार्च ग्रंबाध	80	496	1398	1894

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

djaras .	74	autumn	345		winter	3	5	spring		0.0	summer	90	100	all seaons	102
state	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
tajasthan	96	218	314		.,				**	**			96	218	314
unjab	50	54	104	**	**	***	**		2.		**	**	5.0	54	104
ammu & Kashmir	**	••		**		••			3.4				-1.1		
Delhi	14		14	.**	.51				**			21	14	40	14
Iimachal Pradesh	••	74.4							45.		**		***		
Ittar Pradesh	2	168	170	. 2	164	166		-11					4	332	336
Iadhya Pradesh	***	48	52	3.	140.	144			111		***	***	4	48	52
ihar	14.	.4	4						111		***	***		- 4	- 4
Prissa	**	o.	9.								- * *	14.4	·	0.	2.
Vest Bengal	3.		g.										8.		
Assam	21.	25.	001.										B+-	24.	82.
Manipur	56.	323.	2019									***	34.	=18+	10.
Cripura			* **				**		***						
Andhra Pradesh	52	30	82	14	(6)	14	(0)	(9)	Un)	037	(43)	-(15)	66	30	96
Madras	54	60	114	14	40	54	- ·	2	. 2		uniting.	unit.	68	102	170
Cerala															
Gujarat	146	116	262					dam'		32		32	178	116	294
Maharashtra	66	234	300	2		2	**	**	.,				68	234	302
Mysore	**	14	14	12	20	32		••	••	**		••-	12	34	46
All-India	484	946	1430	44	224	268	on bajin g	LOTEAN TOTAL O	me merced of	32	nus states	32	560	1172	1732

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

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

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

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

		174		
cub	COT	nnl	P	

Proportion & Comments of the C								-						suo-samp	
all man		autur	mn DOL		winter			spring			summer			all season	ns
state	-			-			-	- 1 Y	10000	-				110	F18.1
tedans	186	pure mi	ixed total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)	180	(2)	(3) (4)	(5)	(6)	(7)	(8)	(9)	(10)	13 (11)	(12)	(13)	(14)	(15)	(16)
Rajasthan						.,								+	- 72 4
Punjab	100													19	
Jammu & Kashmir					250										
Delhi								19							
Himachal Pradesh		+							72						
Uttar Pradesh	45	21 88 1	17 138										21	117	138
Madhya Pradesh	* 5	•• 565	201	12	310	12							12	605	1
Bihar Binar		94	55 149	1	**	1							95	55	15
Orissa	70	44	4 48	22	4	26		- 10		4			66	8	7
West Bengal	. 3	0	8										2	8	٤.
Assam	1,14	. 10	188										IN	10	15 .
Manipur	1.77	420	. 958										125	120	*
Fripura															
Andhra Pradesh	157	54	26 80	13	21	21	118	48	166	10	111	10	182	95	27
Madras	Вико	174	14 188	19	29	48	132	6	138	8	2	. 10	333	51	384
Cerala			2 2											2	3
Gujarat		•• ########		26	arteset	26		daniz.					26	I DECEMBED **	2
Iaharashtra		6	4 10	22	7	29							28	11	3
Mysore		46	38 84	16	122	138	56	6	62	34		34	152	166	318
Il-India	•	439 20	60 699	118	183	301	306	60	366	52	2	54	915	505	1420

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

sub-sample: 2

illorat Internation							autumn	2 ^		winter			spring			summer			allseason	S
state						pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)					3.	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan .								- W												
Punjab		5.	-	1						v.	2.					¥•		1.	**	
ammu & Kashmir	1	1	-		540			14.					=			**		**	**	
Delhi	1	4				204		00	70.5		65			W.	**				100	1,00
Iimachal Pradesh						30%	79.0	5.00	**					/ ·.	1.			1	- 100	1100
ttar Pradesh .						10	68	78	185		145							10	68	71
Iadhya Pradesh						35	2	2	14.					٠.	**			34.	18.2	518
ihar para						110	40	150		2	2						**	110	42	15
rissa		*				18		18	12	2	14					-	1	30	2	3:
est Bengal .	1			2,				-						·				**		
ssam	:				1.											**		16.0		
Ianipur									3.						10.			**		
ripura														**						
ndhra Pradesh .						46	4	50	6	8	14	126	2	128	(1)	.(12)	-(13)	178	14	19
Madras						108	20	128	16	52	68	122	16	138	16		16	262	88	35
Cerala						***************************************	2	2											2	
lujarat						2		2	20		20		Shartine.			amumat.		22	anne mente	2
Iaharashtra .						2	A STATE OF THE PARTY OF THE PAR	2	22	4	26							24	4	2
Iysore			•			30	26	56	8	148	156	46	4	50	8	4	12	92	182	27
ll-India						326	162	488	84	216	300	294	22	316	24	4	28	728	404	1,132

ング

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

sub-samples: 1 & 2 combined

state	-				3	autumn		20	winter_			spring			summer		a	ll seasons	
atate .					pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1) Pradesh		*			(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
ajasthan						2.7				44							1		
ınjab			*:		11	14	21							1.					**
mmu & Kashmir						**													
lhi					48.	7.7	V- 481	.15									ex	**	
machal Pradesh					140	4.61	160	44	**		14						1440	***	
tar Pradesh .					31	185	216										31	185	216
adhya Pradesh					-14)	2	2	12	44	12							12	2	14
nar jagger					204	95	299	1	2	3						**	205	97	302
rissa					62	4	66	34	6	40							96	10	106
est Bengal .	- :																		
sam					17	**				**									
anipur						1.0							×						
pura											**								
dhra Pradesh .					100	30	130	6	29	35	244	50	294	10	115	10	360	109	469
adras					282	34	316	35	81	116	254	22	276	24	2	26	595	139	734
erala			,			4	4			7						ENGE !		4	4
ijarat				7.	2	animite	2	46		46					pre-01**		48		48
aharashtra .					8	4	12	44	11	55					**		52	15	67
ysore					76	64	140	24	270	294	102	10	112	42	4	46	244	348	592
l-India					765	422	1,187	202	399	601	600	82	682	76	6	82	1,643	909	2,552

																		su	b-sample:	1
Selver , , ,		1				10	autumn	20		winter			spring	6		summer	13	0 5 4	ll seasons	30
state					,	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1) Landelle			*			(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan						34	130	164	**			**			6		- 6	40	130	170
Punjab						82	26	108		***			~	-		••	**	82	26	108
ammu & Kashmir	/*		4			80	20	100	194	••	-				0414		**	80	20	100
Delhi	+-					**		**		200	100		••	••		**	••	. 88.		
Iimachal Pradesh			1		140	118	3.88	₹00				**		**	*3	**	23	47.84	345	***
Ittar Pradesh .			٠.			44	270	314		7979				***	7.00		***	44	270	314
Iadhya Pradesh	4		-,		•	82	142	224	**	**		-	**		••	**		82	142	224
ihar language,	4				5.	74	370	444	••	**				**	12	**	12	86	370	456
rissa	٠		•			16		16	••	••	•••			5.	**	**	/-	16	***	16
Vest Bengal .			*			18	2	20			4.	••	••	1919			••	18	2	20
ssam			1	*		130		123	••	••			**	- ***		**	**	130	**	(93
Manipur	-		-			27	Total	128					***			••	**	22	100	128
ripura							**	••								**	**		mar.	-
andhra Pradesh .						14	22	36	(6)	(0)	41	(8)	(9)	100	(11)	(18.	(12	14	22	36
Madras						2	6	8	berie	witin	1000	Buit.	miles	100	buing	week)	intel [®]	2	6	8
Kerala				-				1												
Gujarat						16	18	34		-			alia inos		**	months.		16	18	34
Maharashtra .			3.			2		2					4	4	2		2	4	4	8
Mysore				*		6	14	20		••	,	4	12	16			**	10	26	36
All-India		w .				470	1,020	1,490	-cultura sad	er smen en eon	winoful pri	4	16	20	20	statu	20	494	1,036	1,530

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

sub-sample: 2

otate.					10	autumn	26		winter			spring			summer		_00	all seasons	
state				21	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
Area (I) Products					(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(15)
ajasthan					52	106	158		e(s):					**		**	52	106	158
unjab					176	6	182							••			176	6	182
ammu & Kashmir		*	,		• •)	••	***											2	
elhi					•••		10		**			210							
imachal Pradesh					20	2	22	**			1					**	20	2	22
ttar Pradesh .				*	40	302	342					***					40	302	342
adhya Pradesh		145			94	202	296				,			***	**		94	202	296
har					118	288	406	**						8	4	12	126	292	41
rissa					6	**	6	**			****	*8*1	••	• •		**	6		6
est Bengal .					••	56	(10)											460	
ssam		*				50	150				**	-			**				
Ianipur	v	-			• •	1-11	11.0											(*)*	
ipura	-						••												
ndhra Pradesh .			*		4	14	4				22	(9)	22	100	15	4,130	26	1100	26
adras						6	6			nito		podin						6	6
erala											Divid	nubost	- ional	DOSE.	100894	(010)	2 200	2110223	
ijarat					18	12	30				6	briot	6				24	12	36
aharashtra .		٠.				4	4	2	Minutes.	2	4	milit.	4		MOTOR'S		6	4	10
ysore						12	12	**										12	12
-India					528	940	1,468	2	insents could	2	32	para and a	. 32	8	4	12	570	944	1,514

sub-samples: 1 and 2 combined

					2	autumn			winter			spring			summer		a a	ll seasons	
state Table					pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)					(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Kajasthan					86	236	322									6	92	236	378
unjab					258	32	290	••				**	***			**	258	32	290
ammu & Kashmir .					80	20	100					••		4.			80	20	100
elhi						**					.11			17.		.,			
Iimachal Pradesh .					20	2	22										20	2	- 2
ttar Pradesh					84	572	656				69	1900	412	**			84	572	65
Iadhya Pradesh .					176	344	520				103	7.0	455				176	344	52
ihar					192	658	850				92	Time	1181	20	4	24	212	662	83
Prissa					22	100	22				15	- 100	15				22		2
Vest Bengal					18	2	20		117		177		181				18	2	2
ssam											00	19	38	33		17	62		
Manipur			15						1.11		162	1025	219	-				T LES	- 1
Fripura		-						***			97	505	- 500				101-	* 500	3-3
Andhra Pradesh					18	22	40				22		22	**	**	**	40	22	
Madras			•		2	12	14	(0)	160	(1)		160		(11)	(\$6)	1.5	2		Sie
Kerala				7				Ivane			finher	*******	1000	bose	atures.	1	home.	12	50.00
~	•	•			34	30	C4	pitte		••		3,4	••		••	1000			
Mahamahina			3.				64		••		6		6				40	30	
		·	-	•	2	4	6	2	M. M. S.	2	4	4	8	2		2	10	8	
Mysore	•			•	6	26	32		••	••	4	12	16			**	10	38	The second
All—India					998	1,960	2,958	2	barren or	2	36	16	52	28	4	32	1,064	1,980	3,0

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

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

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

sub-sample: 2

Guara						autumn			winter.	*04	538	spring			summer		a a	II seasons	
state .					рыте	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)		•	*		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan .					640	444		•••			52	192	244			810	52	192	244
Punjab				1	**.				**		136	188	324			***	136	188	324
Jammu & Kashmi	r			4.	**						22	2	24	17		17	39	2	41
Delhi				1	- 4		1		7.		6	10	16	7.	**	7.	6	10	16
Himachal Pradesh		٠.			**		7.				12	8	20				12	8	20
Uttar Pradesh		*		4		***					51	1028	1079	19	14	33	7.70	1042	1112
Madhya Pradesh			1				***				102	295	397	324	14		102	295	397
Bihar .		٠.			2.			11.			34	374	408				34	374	408
Orissa .									-:.		31.	14.	32				50	W	2.
West Bengal								- *	· · · · ·		8	14	22	+0.		40.	8	14	22
Assam .									***		5%.	311.	638		V.		380	e Paer.	. 1970
Manipur .		1.			٠.	1.					10.	110.	270.		7.	44	Tie.	2050	- 310.
Tripura .																			-
Andhra Pradesh						(2)	(4)		(0)		2	2	4	1113		(330)	2	2	4
Madras .			Į.		The year	DHESS	10007	1	mm/•••	1	6		6	Smi**	3115.5	-	7		7
Kerala .																***			
Gujarat .						watermers.			woodt.	* *	134	39	173				134	39	173
Maharashtra		•									174	111	285				174	111	285
Mysore .						**	-	••			4	48	52		-	-	4	48	52
All—India						20.00	on grad	1	can l'aus	u gelin	743	2311	3054	36	14	50	780	2325	3105

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

Sub-samples: 1 & 2 combined

state				2	utumn			winter			spring		S	summer.	MIN	all	seasons	
A				pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)				(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan										116	394	510		·		116	394	510
Punjab										298	340	638				298	340	638
Jammu & Kashmir .	* 4									52	10	62	49		49	101	10	111
Delhi								**	**	21	14	. 35				21	14	35
Himachal Pradesh .										24	8	32				24	8	32
Uttar Pradesh										106	2164	2270	37	14	51	143	2178	2321
Madhya Pradesh							.,			209	615	824				209	615	824
Bihar										103	720	823				103	720	823
Orissa											11 2				77			
West Bengal								1.1		19	28	47	.1.1			19	28	47
Assam				7.00														
Manipur		*	*	75+	· ·		200		144						40	4.0	100	
Tripura																		
Andhra Pradesh				(3)	-0	600	19			10	8	18			(13)	10	8	18
Madras				-	-	1.44	1	-	1	6		6	lu-ti-			7		7
Kerala				***	545				Cart .	••		10133						
Gujarat				***	Single +		***	-	exe	256	53	309			**	256	53	309
Maharashtra				••						325	231	556		40000		325	231	550
Mysore										8	74	82				8	74	82
All—India					(a) / (a)	mai San	1		1	1553	4659	6212	86	14	100	1640	4673	6313

0

sub-sample: 1 all seasons summer

postane					**	autumn	***	44	winter			spring			summer		an	scasons	
state					pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	tota
(1)					(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13).	(14)	(15)	(1
Rajasthan .											28	138	166		17		28	138	16
Punjab .						-	***	***	641	## =	8	4	12	**			8	4	1
Jammu & Kashm	ir					••	-	***	**		2		2		••		2		
Delhi .						**	***	***	***		1	**	1		•••	•••	1		
Himachal Prades	h				••				F	•••		***	***	***	***	444	85	**	
Uttar Pradesh											17	540	557	3	•••	3	20	540	5
Madhya Pradesh		,									2	16	18				2	16	
Pibos		:	,								26	208	234				26	208	2
Orissa .	-					***						15	10		-	***		15	
West Bengal					•••	•••	***	***			8	22	30				8	22	
Assam				-					••			Sit	10	-	***	***	3.5		
Manipur .							-	64	618		32	152	168				- 11-5	J. Jay	
Ггірига .	1				150	-	-			816			1-4-			(rest			
Andhra Pradesh			-				•••	***			187		CHOIL	Oli .	1200	(18)	U\$7		
Madras .							(1000)	fames	winiq	(Ottal	broug	unixed	10(4)	has	an Dedel	(Oto)	fame	untrical	
Kerala .			•		•••	•••													
Gujarat .			•		•••	oriennu	••	***	ADDING.	**	••	thents	••		Anterioria.		o, vii	sommis.	
Maharashtra				•		•••	**		4.0	••		7, 8,8	••	**		**			
		•	•		**	••	**	***	4	**		**							
Mysore .					TAMES (9)	and the	a or or or	use Lardy	TATULATE PART		r Sign	Smi case		AND SHEET	**	**	-	12.5	
All—India	7					chterro	dense name	ite ont	sisk: sorn	memo	92	928	1020	3		3	95	928	10

Mational Sample Survey; soth Hound

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

sub-sample: 2

state			,		***	autumn	49	***	winter	14		spring			summer		all	seasons	- 33
44.00					pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)		112.			(2)	(3)	(4)	(5)	(6)	(7.).	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan			*			**	**	618. • • •			36	132	168	**			36	132	168
Punjab											5	28	33				5	28	33
Jammu & Kashmir					11.		**	A.*		***	1		1	**			1	+ 10	1
Delhi										**	1	12	13				1	12	13
Himachal Pradesh			100								2		2				2	100	2
D. I		•			::	12	- 41				13	606	619	3	2	5	16	608	624
Madhya Pradesh .			•	•	- 43		-				6	70	76		***		6	70	76
	•	•				**	2;	::	**	- 14	22	280	302	**	*18	**	22	280	302
Sihar				:	- :		**	717								**			
Prissa	1,417		•		.:	.:	***	::	••			••	**	***	:-	**		••	
Vest Bengai .		*		- 1	::	::	::	- :	**	11	10	28	38	100	**		10	28	38
Assam			1	:	::	::	::	::	- ::	**			1001		- 1 **-	••		••	
Manipur							••							**		••			
Tripura					***	-		(3.5		** .	**	(**		**	**		**		
Andhra Pradesh .				*			••	**	**	**						**		•••	**
Madras		•			0-0	-	-	• •	**			10121	11011		711 P.		pine.		
Kerala					-	-	-	***								**			
Gujarat					-	640	-	***	Switz Colonia		1	2	3	*.*:			1	2	3
Maharashtra .					-	_	-	***			1		1			***	1	416	1
Mysore				•	•••		•••									***		**	
All—India								day Van			98	1158	1256	3	2	5	101	1160	1261

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

4

sub-samples: 1 and 2 combined

				27	100											-11
of the same		*	autumn	E17	-50	winter			spring		1	summer		al	l seasons	30
state		pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	tota
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(1
Rajasthan					100			64	270	334		,.		64	270	33
unjab								13	32	45				13	32	- 3
ammu & Kashmir						**		3		3		•• *		3	W.	
elhi						**		2	12	14	**			2	12	
Simachal Pradesh		100	.,		٧			2		2	13		18	2		
Uttar Pradesh				1015		30		30	1146	1176	6	2	8	36	1148	11
Iadhya Pradesh			906	***	***	10) 8832		8	86	94				8	86	
ihar		349		9.1				48	488	536				48	488	
Drissa												**				
V P1								18	50	68				18	50	
Assam		100	50	190						-1.		**		and the		
		Tas	*0	208				120		4000				ana.		
Tripura		126		236	311	1 10	108	- 15	340	4.50			•••			
			lav		(0)	(1)				(44)	(31)	(1)	(19)	(19)	1000	
		**	1.4.4											**		
	•	bnic	er triste	agest.		mined	1919)	bace	pulzer	17870)	BEST	mexed	Variati	back	**	
Kerala				**				1	2	3				1	2	
Gujarat		29/6	minma			velount		1	Efernia .	1		DESIGN		i	grentin.	
Maharashtra		••	••	**			••									
Mysore			**			J. J.	- :	**								And the second
All—India		men (10)	r) : Virgi	er of anime	utting expe	Same in cont.	edition of	190	2086	2276	6	2	8	196	2088	2

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

state						autumn	1		winter			spring		S	ummer		all s	seasons	
7 44 10 1 N	1				pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1) The British					(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(10
Rajasthan					126	410	536	35	69	104	92	340	432			6	259	819	1,07
Punjab	-				192	50	242				170	156	326				362	206	56
ammu & Kashmir .					164	26	190				32	8	40	32		32	228	34	26
Delhi				2 4	2	6	8				16	4	20	.:			18	10	2
Himachal Pradesh .	1				6	**	6				12		12				18		1
Juar Pradesh					349	607	956	269	537	806	72	1,676	1,748	21		21	711	2,820	3,53
Madhya Pradesh .					281	206	487	211	337	548	109	348	457	**			601	891	1,49
Bihar					259	438	697	488	29	517	95	554	649	12		12	854	1,021	1,87
Drissa					132	11	143	259	12	271							391	23	41
Vest Bengal					107	4	111	328		328	19	36	55		9.		454	40	49
Assam					34		34	217	**	217							251		25
Manipur	2				39	**	39	132		132							171		17
Tripura	-		-		82	4	86	89		89	10		10				181	4	18
Andhra Pradesh				-	227	279	506	398	125	523	264	104	368	84	1120	84	973	508	1,48
Madras		1		*	441	128	569	258	182	440	415	19	434	201	4	205	1,315	333	1,64
Kerala					197	26	223	217	I	218	35		35	bine	TOPOG	6	455	27	48
Gujarat					178	228	406	70	44	114	168	14	182	60		60	476	286	76
Iaharashtra					239	373	612	89	488	577	311	346	657	2	eminet .	2	641	1207	1,84
Tysore					105	161	266	103	263	366	166	162	328	59		59	433	586	1,01
ll—India		-								-						1	penning :	14	and 3

sub-sample: 2

state						60	autumn		Tie	winter	1337		spring			summer			all seasons	
state						pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)						(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan						169	373	542	26	36	62	88	324	412				283	733	1,016
Punjab						283	80	363			- /44	141	216	357				424	296	720
ammu & Kashmir									-	11.		23	2	25	17	::	17	40	2	4
Delhi : :						15		15				7	22	29				22	22	- 4
Iimachal Pradesh	1.	1.	1.			26	2	28	1.00	84.		14	8	22				40	10	
Uttar Pradesh .					1	336	637	973	265	530	795	64	1634	1,698	22	16	38	687	2,817	3,50
Iadhya Pradesh.						275	291	566	178	370	548	108	365	473				561	1,026	1,5
ihar					:	281	339	620	467	52	519	58	670	728	8	4	12	814	1065	1,8
Drissa						56		56	245	2	247	3		3	12	12 -	12	316	2	3
Vest Bengal .						30	2	32	274		274	18	42	60				322	44	3
Assam					:	66		66	168	**	168				:.		**	234		2
Manipur						T			96	4.	96		901	**				96		
ripura	7			٠,		88	10	98	108	**	108	12		12	6		6	214	10	2
andhra Pradesh .		1000				140	68	208	369	104	473	297	38	335	54		54	860	210	1,0
Madras			1.			373	104	477	124	232	356	435	34	469	160	8	168	1,092	378	1,4
Kerala						208	8	216	192	1	193	70		70	6		6	476	9	4
Gujarat						245	149	394	56	40	96	165	43	208	32	**	32	498	232	7
Maharashtra .	-		-	1		293	287	580	114	486	600	324	282	606				731	1,055	1,7
Mysore						99	113	212	122	309	431	126	146	272	8	4	12	355	572	9
ll India .						2,983	2,463	5,446	2,804	2,162	4,966	1,953	3,826	5,779	325	32	357	8,065	8,483	16,5

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

sub-samples: 1 & 2 combined

state	`		4		- State	autumn	,	10	winter			spring			summer			all seasons	
					pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total	pure	mixed	total
(1)					(2)	(3)	(4)	(5)	(6)	(7)	(8)	-(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Rajasthan					295	783	1,078	61	105	166	180	664	844	6		6	542	1,552	2,094
Punjab					475	130	605	4.4.		144	311	372	683				786	502	1,288
Jammu & Kashmir			- 1	1.	164	26	190	4.00	33		55	10	65	49		49	268	36	304
Delhi				4:	17	6	23				23	26	49				40	32	72
Himachal Pradesh				4	32	2	34		**		26	8	34				58	10	68
Uttar Pradesh .	11.5	3	7		685	1,244	1,929	534	1,067	1,601	136	3,310	3,446	43	16	59	1,398	5,637	7,035
Madhya Pradesh					556	497	1,053	389	707	1,096	217	713	930				1,162	1,917	3,079
Bihar					540	777	1,317	955	81	1,036	153	1,224	1,377	20	4	24	1,668	2,086	3,754
Orissa					188	11	199	504	14	518	3		3	12		12	707	25	732
West Bengal .					137	6	143	602		602	37	78	115			1.	776	84	860
Assam					100	**	100	385		385	3.6		144				485	-	485
Manipur					39		39	228		228 -					-		267		267
Γripura					170	14	184	197		197	22	**	22	6		6	395	14	409
Andhra Pradesh.					367	347	714	767	229	996	561	142	703	138	**	138	1,833	718	2,551
Madras					814	232	1,046	382	414	796	850	53	903	361	12	373	2,407	711	3,118
Kerala					405	34 -	439	409	2	411	105		105	12		12	931	36	967
Gujarat					423	377	800	126	84	210	333	57	390	92	*	92	974	518	1,492
Maharashtra .					532	660	1,192	203	974	1,177	635	628	1,263	2		2	1,372	2,262	3,634
Mysore					204	274	478	225	572	797	292′	308	600	67	4	71	788	1,158	1,946
All—India .		14.1			6,143	5,420	11,563	5,967	4,249	10,216	3,939	7,593	11,532	808	36	844	16,857	17,298	34,155

Table (11): Estimates of production (000 tonnes) and gross area (000 acres) under selected crops in selected states by sub-samples 1965-66

						production	on (000 tonne	s)			gros	s area (000 areas)		
state						half-sample	half-sample	combined	sub-sample	sub-sample	sub-sample	sub-sample	half-sample	half-sample	combined
(1)						(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	- (11)
		. 45				190 - 90	020	25. 19	No series	THE RESERVE	1.	rice	11	300	
Uttar Pradesh Madhya Pradesh. Bihar Orissa West Bengal Assam Andhra Pradesh Madras Kerala Maharashtra		* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *		2,056 1,977 4,922 2,654 4,210 2,113 4,674 3,265 1,041 962	2,801 1,575 5,285 3,003 3,566 2,199 5,722 3,057 771 1,138	2,428 1,775 5,104 2,828 3,888 2,156 5,198 3,161 907 1,050	9,405 10,636 14,866 8,644 9,489 5,424 8,863 6,209 1,926 3,180	11,542 11,237 13,735 9,948 8,362 4,512 10,133 7,603 1,712 3,479	10,931 -11,573 13,365 5,581 9,914 4,267 8,592 7,028 1,900 2,607	10,730 8,906 16,123 6,240 8,127 5,814 9,874 7,129 1,432 4,047	10,168 11,105 14,116 7,113 9,702 4,845 8,728 6,620 1,913 2,893	11,135 10,067 14,930 8,094 8,244 6,163 10,003 7,366 1,572 3,763	10,652 10,585 14,523 7,604 8,973 5,003 9,365 6,994 1,742 3,328
The second second				N. N.			The same				2	jowar		1000	
Andhra Pradesh . Madras . Gujarat . Maharashtra .						1,330 405 706 4,109	2,294 403 511 3,854	1,813 403 607 3,981	6,053 1,774 1,333 18,347	9,498 1,831 1,797 17,356	98,08 3,041 2,143 18,479	8,223 2,384 2,170 20,133	7,929 2,408 1,738 18,413	8,860 2,108 1,983 18,746	8,395 2,259 1,861 18,579
(enima)							San /	to "Peaper"	95) - 971	THE PARTY OF THE P	3. b	ajra	Part Part	Value 20	
Rajasthan					240	661	1,013	836	10,519	11,458	14,523	19,231	12,521	15,342	13,932
note:											4. 1	agi		7	30
Mysore				4		199	311	255	2,190	2,932	2,477	3,254	2,334	3,093	2,714
							35.53	10 10 10			5.	maize			
Jammu & Kashmir Bihar						117 721	117 939	117 829	403 1,788	433 2,180	462 2,072	433 2,862	433 1,930	433 2,521	433 2,225
											6.	wheat			1-1
Punjab Uttar Pradesh Madhya Pradesh. Gujarat			:		*	2,695 4,492 1,752 650	2,744 4,341 1,780 736	2,720 4,417 1,766 693	6,699 15,470 8,079 1,142	7,433 14,776 9,605 1,267	7,404 14,914 7,342 1,251	5,908 13,781 6,597 889	7,051 15,192 7,710 1,197	6,671 14,279 8,101 1,078	6,861 14,735 7,906 1,138
						September 1					7.	barley			
Uttar Pradesh .						1,315	1,501	1,408	6,595	5,453	5,425	5,838	6,010	5,645	5,827

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

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

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

									pure					mixed					co	ombined			
state						sub-san	aple 1	sub-sam		combi	ned	sub-sam	ole 1	sub-san	ple 2	combi	ned	sub-sam		sub-samp	ole 2	combin	ned
						no. of cuts	yield rate	no. of	yield rate	no. of cuts	yield rate	no. of cuts	yield rates										
(0)						(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan				4.		-11	73	5	32	16	60	1	0	1	9	2	4	12	67	6	28	18	5
Punjab	200					42	316	53	334	95	326							42	316	53	334	95	32
ammu & Kashmir					1.	82	385	93	627	175	514	6						82	385	93	627	175	51
Delhi																							
Iimachal Pradesh						6	424			6	424							6	424			6	42
ttar Pradesh .						543	222	547	218	1,090	220	107	191	103	164	210	178	650	217	650	210	1,300	21
ladhya Pradesh						372	149	333	156	705	152	15	93	22	109	37	103	387	147	355	153	742	15
ihar						570	318	516	341	1,086	329	34	308	39	354	73	333	604	318	555	343	1,159	33
rissa						305	359	280	353	585	356	7	254			7	254	312	357	280	353	592	35
Vest Bengal .						417	420	304	440	721	428	2	168	2	362	4	265	419	418	306	440	725	52
ssam						251	467	234	425	485	447			٠,				251	467	234	425	485	44
Manipur			ě			171	592	96	641	267	610				1			171	592	96	641	267	61
ripura			-			181	393	214	406	395	400	4	252	10	371	14	337	185	390	224	404	409	39
ndhra Pradesh.						527	522	434	502	961	513	20	269	4	673	24	336	547	513	438	503	985	50
Iadras						666	514	561	522	1,227	518	14	716	6	268	20	582	680	518	567	520	1247	51
Lerala						455	483	476	456	931	469	25	300	7	283	32	296	480	474	483	453	963	46
ujarat						76	295	79	248	155	271	24	160	17	62	41	119	100	263	96	214	196	23
faharashtra .						240	311	287	256	527	281	32	144	17	83	49	123	272	291	304	247	576	26
Mysore				V .		139	436	158	406	297	420	12	60	9	226	21	131	151	406	167	397	318	40
ALL-INDIA .		15		161		5,054	391	4,670	383	9,724	387	297	227	237	204	534	217	5,351	382	4,907	375	10,258	37

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

								100					nweighted	- C								
							pı	ire			3		m	ixed						nbined		
					sub-san	ple 1	sub-sam	ple 2	com	bined	sub-sa	mple 1	sub-sa	mple 2	comb	ined	sub-sar	mple 1	sub-sa	mple 2	comb	
state					no. of	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of	yield rate	no. of	yield rate	no. of cuts	yield rate	no. of	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)	*				(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Lajasthan					60	62	42	34	102	50	96	72	84	116	180	93	156	68	126	88	282	7
					4	53	4	120	8	86		***	20	69	20	69	4	53	24	77	28	7.
ammu & Kashmir					_	***	***	-	•••		0=0	-		***								
-11 .					_			-	-	-	-	**										
imachal Pradesh					***	•	-		-	***	-		•••		•							
ttar Pradesh .					8	72			8	72	380	153	362	136	742	145	388	151	362	136	750	14
adhya Pradesh.			Y		18	283	24	182	42	225	358	195	403	263	761	231	376	199	427	259	803	23
har					8	342	4	128	12	271	8	77	18	115	26	103	16	210	22	117	38	15
rissa					4	634			4	634	8	164	***		8	164	12	320			12	32
Vest Bengal .													**			**	9	• •		**		
ssam																	**					
anipur		:	:	-:			**				**					* (*)						
ripura						**					•••	***							/	**		
ndhra Pradesh .				•	146	165	156	211	302	189	241	173	158	214	399	189		170	314	212	701	18
ladras					240	374	194	421	434	395	138	80	176	83	314	82	378	267	370	260	748	26
erala						••															••	91
ijarat					100	504	60	277	160	419	60	295	46	197		252		426		242	266	23
aharashtra .					178	253	171	237	349	245	718	220	685	237		228		227	856	237	1,752	15
ysore					112	150	101	88	213	121	296	227	287	115	583	172	408	206	388	108	796	15
l-India .					878	274	756	248	1,634	262	2,303	188	2,239	188	4,542	188	3,181	212	2,995	203	6,176	20

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

and the same of th		180											unweight	ed yield	rate in ki	lograms p	er acre o	f gross ar	ea				
state	-		-	7				pı	ire				75	mi	ixed	100			ï	comb	ined		
, state						sub-san	ple 1	sub-sam	ple 2	comb	ined	sub-s:	ample 1	sub-sa	imple 2	comh	oined	sub-sa	ample 1	sub-sa	mple 2	com	bined
						no. of cuts	yield rate	no. of	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of	
(0)					T I P	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18
ajasthan						56	69	96	117	152	99	252	68	218	85	470	76	308	68	314	95	622	82
unjab						64	180	50	237	114	205	24	185	54	94	78	122	88	181	104	164	192	171
ammu & Kashmir						2	66			2	66	6	38			6	38	8	45		1415	8	45
elhi						2	36			2	36	6	321			6	321	8	250			8	250
imachal Pradesh															8	181	1.00	450				17.	
ttar Pradesh .						2	456	4	280	6	339	270	193	332	217	602	206	272	194	336	218	FJ8	20
adhya Pradesh .						8	29	4	161	12	73	40	276	48	192	88	230	48	235	52	190	100	21
ihar												33		4	108	4	108			4	108	4	10
rissa												1						-					
est Bengal .																							
ssam																							
fanipur		1.																		(x			
ripura	,				- 9									-0.0									
ndhra Pradesh .						96	249	66	168	162	216	124	96	30	207	154	118	220	164	96	180	316	169
Iadras		1.				74	310	68	325	142	317	124	77	102	112	226	93	198	164	170	197	368	179
erala						a rabi	41	1															
ujarat					i yuq	136	392	178	279	314	328	170	338	116	235	286	296	306	362	294	262	600	31:
aharashtra .			. ~			40	100	68	130	108	119	322	83	234	100	556	92	362	85	302	107	664	9!
ysore						16	101	12	0	28	58	60	24	34	37	94	29	76	41	46	28	122	3
l-India	X.					496	247	546	213	1042	229	1398	139	1172	149	2570	144	1894	167	1718	170	3612	168

0

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

																in kilog				14000		combi	ned		
									URF	pur					-la 1		ample 2	com	bined	sub-sar	mple 1	sub-sar	nple 2	comb	ined
state								sub-sa	mple 1	sub-sam	ple 2	combin		sub-sa				no. of	vield	no. of	yield	no. of	yield	no. of	
								no. of cuts	yield rate	no. of	yield rate	no. of	yield rate	no. of cuts	yield rate	no of cuts	yield rate	cuts	rate	cuts	rate	cuts	rate	cuts	rate
(0)			-		-	_		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
(0)			-									-								• •					
ajasthan					•		•		•••														.,		
unjab					•						**	•	12	**	:::		*:			30		**	44	**	
ammu & Kashmir							3	35	**		**	27												120	
elhi							•					**			• •		***				**		18.83	***	
Iimachal Pradesh	*	*						••	**					117	229	68	253	185	282	138	314	78	290	216	30
ttar Pradesh					*		1	21	398	10	542	31	444	117		2	63	2	63	12	153	2	63	14	14
Iadhya Pradesh .							•	12	153	**	**	12	153				339	97	255-		294	152	321	302	30
ihar							•	95	354	110	314	205	333	55	191	42			278	74	274	32	266	106	27
Prissa						٠,	*	66	274	30	264	96	271	8	272	2	303	10							
Vest Bengal .			2.					**	**	77	/ 17	**		.77				.77	.:	.:	••	••	12	4.	
Assam			3					100		***	1.0	144					N.	**	**	**	**		1		7
Manipur												37.34	**	7.	**	••	334	••	••	••	**			2	
Tripura				1					448	95	1						+1		••	**		•••	436	469	4
andhra Pradesh .								182	448	178	454	360	451	95	244	14	200	109	238	277	379	192		734	4
Madras								333	474	262	453	595	465	51	349	88	288	139	310	384	457	350	411	4	
Cerala								42			2 200	Bee au		2	55	2	0	4	28	2	55	2	0		1
Gujarat								26	91	22	167	48	126			**	1.4	* *	4	26	91	22	167	48	
Iaharashtra .								28	214	24	327	52	226	11	144	4	97	15	131	39	194	28	294	67	- 2
lysore								152	215	92	222	244	218	166	139	182	107	348	122	318	175	274	145	592	1
	- 100				-	-		915	374	728	384	1643	380	505	225	404	198	909	213	1420	321	1132	317	2552	9

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

state										pui	re			* 1		mi			gross area			com	bined		
								sub-san	aple 1	sub-sar	nple 2	comb	oined	sub-sar	aple 1	sub-sar		cor	nbined	sub-sa	imple 1		mple 2	com	bined
				*				no. of cuts	yield rate	no. of	yield rate	no. of	yield rate	no. of	yield rate	no. of	yield rate	no. of	yield rate	no. of	yield rate	no. of	yield	no. of	yield
(0)								(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		- 11-10-	10	337		cuts	rate	cuts	rate
ajasthan .						T. E.		40				51.61				(3)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
unjab .						•			382	52	410	92	398	130	354	106	461	236	402	170	361	158	444	328	40
mmu & Kashmi	r			•			•	82	749	176	780	258	770	26	596	6	598	32	596	108	712	182	774	290	75
lhi			•					80	310	92	319	172	315	20	141	22	245	42	195	100	276	114	304	214	29
machal Pradesh				*				••	6-9	-	-	•••	-	-	-	-	-	-	-						
tar Pradesh		•	•			,		-	-	640	-	-	••				**		24						
adhya Pradesh				*	,		* ,	44	397	40	627	84	507	270	301	302	406	572	356	314	314	342	431	656	37
0.0	•						*	82	406	94	408	176	407	142	223	202	238	344	232	224	290	296	292	520	29
issa .	•			•	*			86	424	126	414	212	418	370	372	294	380	664	376	456	382	420	390	876	38
est Bengal					-			16	348	6	780	22	466		-		14			16	348	6	780	22	46
			•	*			•	18	1811	***	144	18	1811	2	2412		7.	2	2412	20	1871			20	187
sam				*	140		,	-	0.00	-	-	-	040	_	_		_	816	545						107
anipur .		*	*						***	B-B-											-		***		
ipura .	*	4	f* :	20		-	-		0.0																
dhra Pradesh							147	14	445	26	1193	40	931	22	544			22	544	36	FOC		***		• 1
adras .					*			2	695	***	810	2	695	6	602	6	288	12	445		506		1193	62	79
erala .								**		***	***	440		040					443	8	626	6	288	14	48
ijarat .	+							16	306	24	329	40	320	18	244	12	304	0.0	0.00	**	100	18.8		**	
aharashtra								4	181	6	341	10	277	4	151			30	268	34	273	36	321	70	298
ysore .								10	309			10	309	66		4	208	8	180	8	166	10	288	18	234
-India .		-	-			_	3					10		00	539	12	962	38	673	36	475	12	962	48	598
		*	*		•	. 3	•	494	492	642	544	1136	522	1036	342	966	371	2002	356	1530	390	1608	440	3138	416

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

0

					-								***************************************	mix	ed					combin	ned		
state					-		-1- 1	pur	mple 2	coml	bined	sub-san	nnle 1	sub-sar	4.4	combin	ned	sub-samı	ole 1	sub-san		combi	ined
					-	sub-sam			-		-164		yield	no. of	yiled	no. of	yield	no. of	yield	no. of	yield	no. of	yield
						no. of	yield rate	no. of	yield rate	no. of cuts	yield rate	no. of cuts	rate	cuts	rate	cuts	rate	cuts	rate	cuts	rate	cuts	rate
(0)						(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
ajasthan						64	592	52	495	116	549	202	287	192	252	394	270	266	361	244	303	510	33
unjab						162	437	136	441	298	439	152	392	188	318	340	351	314	415	324	369	638	39
ımmu & Kashmir						62	282	39	365	101	314	. 8	231	.2	349	10	255	70	276	41	365	111	30
elhi						15	697	6	984	21	779	4	567	10	549	14	554	19	670	16	724	35	69
imachal Pradesh				6		12	315	12	145	24	230			8	91	. 8	91	12	315	20	124	32	1
ttar Pradesh .						73	274	70	338	143	305	1136	312	1042	313	1278	312	1209	309	1112	315	2321	3
adhya Pradesh .						107	259	102	249	209	254	320	181	295	187	615	184	427	201	397	203	824	2
har						69	318	34	299	103	312	346	244	374	210	720	226	415	256	408	217	823	2
rissa			2.0			-			197*		131					(*.*		**			- 137	-15	
est Bengal .						11,	189	8	381	19	270	.14	147	14	362	28	254	25	165	22	369	47	2
sam .							**		- 55		100		••					**	151	.,	2.47		
Ianipur						•••		•••	7.54	**	**	.,	225	50	911	***	285	10	· de	23	255	100	
ripura			٠.			550	-	-		•••	200	Jahr .	201	120	3 160	320	9145	100	-117	100	400	187	
ndhra Prade 'i .						8	417	3	81	11	325	6	110	2	91	8	105	14	285	5	85	19	2
ladras						311		6	483	6	483	127	CHI	**	•••		•••	• •	• •	6	483	6	4
erala						000	100	contr	1900	CHO.	KHI.	,cnia to ot	Little Lings	no or	Late.	ito-of	745 A	nd. of	-	no oi	Austr	00 0	
ujarat						122	655	134	599	256	626	14	806	39	507	53	586	136	671	173	578	309	Simes
laharashtra .						151	350	174	388	235	370	120	195	111	237	213	215	271	281	285	330	556	
ysore		(*)				4	211	4	488	8	350	26	116	48	104	74	108	30	129	52	133	82	
ll-India	_					860	406	780	414	1640	409	2348	280	2325	271	4673	276	3208	314	3105	307	6313	

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

				*				-		-	и	nweighted	yieiu ra	te in killo	grams pe	r acre of	gross area	ı					
states		- 4	- 2			- 151	300	pı	ire		-	170	120	mix	ed		315	751	70.7	coml	pined		
						sub-sam	ple 1	sub-sar	mple 2	com	bined	sub-sar	nple 1	sub-san	nple 2	comb	ined	sub-sa:	mple 1	sub-sar	nple 2	com	bined
						no. of	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
(0)						(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Lajasthan	**					28.	776.	36	916	64	855	138	397	132	370	270	384	166	460	168	487	334	47
unjab	*					.8	465	.5	234	13	376	4	657	28	574	32	584	12	529	33	522	45	52
ammu & Kashmir					,	2	121	1	257	3	166	.,			**			2	121	1	257	3	16
Delhi						1	846	1	510	2	678		**	12	78	12	78	1.	846	13	111	14	16
limachal Pradesh			 	**	•3			2,	131	2	131				100	***	*1*1	•••		2	131	2	13
Ittar Pradesh .					*,	20	176	16	208	36	190	540	261	608	260	1148	260	560	258	624	258	1184	25
Madhya Pradesh .				*		2	554	6	180	. 8	224	16	210	70	69	86	95	.18	248	76	77	94	110
ihar						26	182	22	243	48	210	208	168	280	140	488	152	234	170	302	148	536	158
Drissa						15	15	13	110		-10			**		***	**1	. 1 1 1 1 0		11112	372		
Vest Bengal .			4		*	8	343	10	95	18	205	22	61	28	110	50	88	30	136	38	106	68	119
Assam .			 740		*	20.	185	5a	203	111	214					**	***	-10		10	***		
Manipur						100	125	155	-01	126	930	156	283	55	***		121	30	311	- 1	100	111	
ripura	- /*-	•		-			250	0.5	100	114	544		244	100	325		421	100	912	234	323		76
Andhra Pradesh .															0.00	404	***	166	Sitt	244	303	210	35
Madras							(2)	(0)	(4)	(2)	(0)	(5)	(0)	(50)	(10)	(11)	100	(1.6)	1/47	(12)	(10)	(13)	(19)
Kerala						- 500	1500	carry nor or	1716	emp.	mil	cità	Lagra.			- voige	17.	67.72 110 - 61	49,00	ange	2976	com	E/H
Gujarat							The state of	1	269	- 1	269	4.0	-	2	188	2	188	no of	, rold	3	215	3	215
Maharasthtra .							••	1	52	1	52	and seat	mole i	anp-en	unic z	comp	840	ndp-kinn	ole 1	100-100	52	comp	52
Mysore												5-6	***	**	44.			0.4	9.4	coughi	ngd		
1. T. die				-		0.5	107	101	7		100	un elalin	a solution	reciti lufan	STATIST DE	r again of p							
li-India	-		*			95	407	101	457	196	433	928	256	1160	234	2088	244	1023	271	1261	252	2284	260

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

Laur		***					432				unv	weighted ;	vield rate	in kilogra	ims per a	cre of gro	oss area	304	756	382	100	796	113
state	*		9	*		104	101	irrigat	ted	863	393	792	2014	non-irri	gated	1,530	5/3	898	553	combi	- Control of the Cont	3,752	233
mintal						sub-san	iple 1	sub-sam	ple 2	combi	ned	sub-sai	nple 1	sub-sam	ple 2	comb	oined	sub-san	nple 1	sub-sam	ple 2	comb	ined
						no. of	yield rate	no. of	yield rate	no. of	yield rate	no. of cuts	yield rate	no. of	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
Indiana -						218	1972	700	(TID	105	400	(7)	(0)	175	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
(0) Printerly	2					(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(ro)	(11)	(12)	255	2.177	40.00	31107		130
ajasthan		. 4				. 1	100	1	9	2	54	11	64	5	32	16	54	12	67	6	28	18	54
unjab						. 25	244	43	404	68	345	17	422	10	43	27	282	42	316	53	334	95	326
mmu & Kashmir					*	. 70	428	81	637	151_	540	12	121	12	555	24	338	82	385	93	627	175	514
elhi						· · · · · ·							1		••							••	
imachal Pradesh			*			. 6	424	**		6	424	15	320			15.	350	6	424		- **	6	42
ttar Pradesh .			2			. 197	301	188	275	385	288	453	181	462	184	915	183	650	217	650	210	1300	21
ladhya Pradesh .						. 68	226	31	293	99	247	319	130	324	140	643	135	387	1147	355	153	742	15
ihar .						. 167	361	153	377	320	369	437	301	402	329	839	315	604	318	555	343	1159	33
prissa						. 69	436	57	386	126	413	243	334	223	344	466	339	312	357	280	353	592	35
Vest Bengal .	4	*				. 46	559	78	534	124	543	373	401	228	408	601	404	419	418	306	440	725	42
Issam		*				. 18	537	8	444	26	508	233	462	226	424	459	443	251	467	234	425	485	44
Manipur						. 35	613	27	616	62	614	136	587	69	650	205	608	171	592	96	641	267	61
relination 1	-					. 9	359	25	426	34	408	176	391	199	401	375	396	185	390	224	404	409	39
Fripura				-		. 490	535	416	518	906	527	57	320	22	214	79	290	547	513	438	503	985	50
Andhra Pradesh .	•	·	-			. 666	527	548	532	1214	529	14	93	19	162	33	133	680	518	567	520	1247	5
Madras		2 -		100		. 168	530	172	499	340	514	312	444	311	428	623	436	480	474	483	453	963	4
Kerala	•	•				. 23	474	30	377	53	419	77	199	66	141	143	172	100	263	96	214	196	2
Jujarat	•					. 61	427	67	296	128	358	211	252	237	232	448	241	272	291	304	247	576	2
Maharashtra . Mysore						. 67	530	123	457	190	483	84	308	10 m/44	230	128	281	151	406	167	397	318	4
All-India	-					2186	475	2048	470	4234	473	3165	317	2859	306	6024	312	5351	382	4907	375	10258	3

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

state	,		-	101	674	irrig	ated 100	150	1500	211		in kilog		140	0			combi			
Culium			-	sub-sa	mple 1		mple 2	comb	ined		aple 1	-		comi	oined	0.30	301			576	268
Sorale *				no. of	yield	no. of		no. of	yield	no. of	yield	no. of	yield		-	sub-sar			mple 2		bined
				cuts	rate	cuts	rate	cuts	rate	cuts	rate	cuts	rate	no. of	yield rate	no. of	yield rate	no. of	yield rate	no. of	yield rate
(0) Production			4	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
ajasthan					359	2	40	2	40	156	68	124	89	280	77	156	68	126	88	282	77
unjab				55	ma .	37	cie		910	400	53	24	77	28	74	4	53	24	77	28	74
mmu & Kashmir				18	282	9	114	20	709	593	462	550	507	100	16.8	191	901	204	40.5	402	113
elhi				40	228	78	331	154	200	373	201	550	408	109	104	110		3.0	440	72.5	773
imachal Pradesh				68	429	57	200	150	118	248	7.8	V.2		- 100	0.00	312	- 721	\$80	102	265	
ttar Pradesh .				8	189	2	63	10	164	380	150	360	137	740	144	388	151	362	136	750	144
ladhya Pradesh .				***	380	6	0	6	0	376	199	421	262	797	232	376	199	427	259	803	231
har				103	108	188	720	102	284	16	211	22	117	38	157	16	210	22	117	-	156
rissa								.0		12	320			12	320	12	320			12	320
est Bengal																					
ssam				40	123	31	671	121	340	15	151		300			, A.S.			oks		
anipur				72	344	43	104	60	3.10	13	155	10			1 505	- 17	7,12	24			
ripura				0-6	100			. 3	51		- CH			16	2.1	15	01		in.	10	22
ndhra Pradesh .				50	178	46	195	96	186	337	169	268	215	605	189	387	170	314	212	701	189
adras	,			210	419	192	419	402	419	168	77	178	88	346	83	378	267	370	260	748	264
erala				נים מנו	7494	30,00	134.15	10° 0	1 10	no of	Abio	30.00	1947	an in	2.002	ind . on	Fig.	mo, of	Zirger	EMIS OF	Art. c.
ujarat				2	96	24	464	26	436	158	430	82	178	240	344	160	426	106	242	266	353
aharashtra .				104	401	98	380	202	391	792	204	758	219	1,550	217	896	227	856	237	1,752	232.
ysore				30	432	26	80	56	269	378	189	362	110	740	150	408	026	388	108	796	158
l-India				404	380	396	354	800	367	2,777	188	2,599	180	5,376	186	3,181	212	2,995	203	6,176	208

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

state					-	-	199	irrigated	1	4	TOR	1,32	20/n	on-irrigate	d					combin	ed		
Culturat						sub-sam	ole 1	sub-sam		combi	ned	sub-sam	ple 1	sub-sam	ple 2	comb	ined	sub-san	nple 1	sub-san	aple 2	com	nbined
						no. of	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate
(0)						(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
ajasthan .						4	133	24	299	28	275	304	67	290	78	594	72	308	68	314	95	622	82
njab .						4	434	24	326	28	341	84	170	80	116	164	144	88	181	104	164	192	171
mmu & Kashr	nir		**	*								8	45			8	45	8	45	4.7		8	45
elhi						8	250			8	250					7.		8	250		<i>z.</i>	8	250
imachal Prade	sh					12	1.226			12	220		203	37	2.0	15	277	N.	274	35	200	140	144
ttar Pradesh	N.V					2	408	20	411	22	411	270	194	316	205	586	200	272	194	336	218	608	207
ladhya Pradesh	1 .											48	235	52	190	100	212	48	235	52	190	100	212
har Bushen						35	546	8	. 692	.40	919	100	340	4	108	4	108	TOP	33.5	4	108	4	108
rissa.	OFF.														• •								**
est Bengal																							
ssam .	DETAIL.																					T	
anipur .																					**		
ipura .					-											**		**					
ndhra Pradesh						26	384	30	213	56	292	194	134	66	166	260	142	220	164	96	180	316	169
adras .						62	368	72	346	134	356	136	71	98	88	234	78	198	164	170	197	368	179
erala .		1				00.00	yield	nn, of	71019	no of	yleld	muivil Sura	- Alein	milet	Sibile	40.01	A TOUT	100.00	Shrine Shrine	more of cuts	25.00	those of	- XIN
ujarat .						98	537	48	718	146	597	208	279	246	251	454	264	306	362	294	262	600	31
aharashtra						14	304	10	91	24	215	348	76	292	107	640	90	362	85	302	107	664	9.
ysore .							**			• •		76	419	46	28	122	36	76	41	46	28	122	3.
-India .						218	434	223	394	446	414	1,676	132	1,490	140	3,166	140	1,894	167	1,718	170	3,612	16



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

											unweigh	ted yield	rate in	killogran	ns per ac	ere of gr	oss area	- 11	34	- 89	158	10
state						10%	irriga	ted	2		JAH.	70	non-it	rigated	O FO	80	367	BI	comb	ined		0.1
					sub-sam	ple 1	sub-san	ple 2	comb	oined	sub-san	nple 1	sub-san	aple 2	com	bined	sub-sa	mple 1	sub-sa	mple 2	con	nbined
		*			no. of	yield	no. of	yield	no. of	yield rate	no. of	yield rate	no. of	yield rate	no. of	yield rate	no. of	yield rate	no. of	yield rate	no. of	yield rate
Here .					cuts	rate	cuts	rate	cuts	Tate	cuts	Tate	111	rate	204	38.	1,000	101	140	Tate	Cuts	Tate
(0)			-		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan																						
Punjab		30.														3.			**			1.
Jammu & Kashmir										**						1.	7.				2	
Delhi			,											**					***			
Himachal Pradesh									7.				••	**				12.		7.		
Uttar Pradesh .					32	546	8	692	40	575	106	243	70	244	176	243	138	314	78	290	216	305
Madhya Pradesh .	*					3.				• •	12	153	2	63	14	140	12	153	2	63	14	140
Bihar					8	306	4	563	12	392	142	294	148	314	290	304	150	294	152	321	302	308
Orissa					12	226	**		12	226	62	283	32	266	94	277	74	274	52	266	106	272
West Bengal					0	570				250			**				0.	320	-:	1.		34.
Assam											1.	17.			9.	43		3.2			.0	4.01
Manipur					-4.	181	34.	326	18	391	9.5	140	8)	Hip.	10.4	-141	- 70	181	10.1	307	195	130
Tripura						138	- 51.	200	28	273	803	93	290	-1.	PB4	17.	early y		344	47	000	- 95.
Andhra Pradesh .					215	471	182	458	397	465	62	58	10	37	72	55	277	379	192	436	469	402
Madras					341	492	304	442	645	468	43	190	44	216	87	203	384	457	350	411	734	435
Kerala					DO 01	SKININ.	-keer on	थ ग्र	no ni	41010	2	55	2	0	4	28	2	55	2	0	4	28
Gujarat					mpolymi	G 1.	\$0.0-1.00	16 2.	compri	ren	26	91	22	167	48	126	26	91	22	167	48	126
Maharashtra .					4	138	Indigited.		4	138	35	201	28	294	63	242	39	194	28	294	67	236
Mysore					146	275	96	290	242	281	172	91	178	62	350	76	318	175	274	145	592	161
						438				433	662	187	536	196			1,420	321				

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

						2 3	1 10 10		irrigate	d	13				non-irr	igated					700	combined	200	306
state						-	sub-sam	unla 1	sub-sam		comb	oined	sub-sam	ple 1	sub-san	aple 2	comb	ined	sub-sam	ple 1	sub-sam	ple 2	comb	ined
							- 170	yield	no. of	vield	no. of	yield	no. of	yield	no. of	yield	no. of	yield	no. of	yield	no. of	yield rate	no. of cuts	yield rate
							no. of	rate	cuts	rate	cuts	rate	cuts	rate	cuts	rate	cuts	rate	cuts	rate	cuts			
(0)	-	-	-				(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
No. of Street, or							68	477	60	421	128	451	102	283	98	458	200	369	170	361	158	444	328	401
Rajasthan			37.1				65	875	126	851	192	859	42	457	56	603	98	540	108	712	182	774	290	751
runjab		•			(47)	40	4	569	46	233	50	260	96	264	68	353	164	301	100	276	114	304	214	291
ammu & Kashmir								-44.				7.00		1,68	30	103		324	52	102		300	23	100
Delhi																77	12	22				••		*(*
limachal Pradesh.	98					471	66	372	138	535	204	482	248	300	204	362	452	328	314	314	342	431	656	37
Jttar Pradesh .			m e r			- 10		300	24	321	24	321	224	289	272	289	496	289	224	290	296	292	520	29
Madhya Pradesh .	•		•				24	326		1000	24	326	432	385	420	390	852	387	456	382	420	390	876	38
ihar		10.50	•	•			7(0)		PIEZ.	12.5	1.453	1855	16	348	6	780	22	466	16	348	_6	780	22	46
Drissa Pro Per lesp.	-	•				•		**		180		1995	20	1,871		911	20	1,871	20	1,871	10	524	20	1,87
Vest Bengal			*			-	M	704	All .		28	283			**	321	10	afé	- 51	300	91	360	5 M.	200
Assam . Margania	*						13	310		440	73	- 100		000		341		247	.,	4/0	334	369	100	39
Manipur							1997	504.	100	457	183	186		313		1011		122	-11	100	544	102	9.50	
Cripura							197.	429.	22	1,323	36	982		544		478		534	36	506	26	1,193	62	79
Andhra Pradesh .							14	445	6	288				940	(a)	- (10	(11)	940	8	626	6	288	14	48
Madras				•	•		6	521	0					into		Arrig.	CH12	(8)	eng.	100	con	1986	C Unit	- UI
Kerala	76		*				nn. of	Au d	110 VI	201		र्गलीय			043, 10.			282	34	273	3 36	321	70	29
Gujarat	18.			7 TE	74		4	278		mple 1	000							151		166	5 10	288	18	2
Maharashtra .						*	4	181											36		5 12	962	48	55
Mysore					*	*	36	476	12	902	numi	mi to-g	held paid	76. 750c	July 181	5016 O	attended to	(N)	1,530	390	1,608	3 440	3,138	4

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

Divine									307	unwei	gnied yn	eld rate i	n kilogra	ams per	acre of	gross are	a						
state							197	irrigate	d		-		1-1	non-irri	igated			- 00		combi	ned		
						sub-sar	nple 1	sub-san	aple 2	com	bined	sub-sar	nple 1	sub-sar	mple 2	com	bined	sub-sar	nple 1	sub-san	aple 2	com	bined
						no. of	yield rate	no. of	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of cuts	yield rate	no. of	yield rate	no. of	yield rate	no. of	yie
(0)						(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)				rat
Rajasthan			- 415			197	428	206	341	403	- 900	7		7	757	AR.	237	- 19	(14)	(15)	(16)	(17)	(18
Punjab						197	504	190	467	387	384 486	69	168	38	101	107	144	266	361	244	303	510	333
ammu & Kashmir						17	212	6	440	23		117	265	134	231	251	247	314	415	324	369	368	392
Delhi						13	764	13	772	26	271	53	297	35	351	88	318	70	276	41	365	111	309
Iimachal Pradesh								6	186	6	768	6	464	.3	514	9	481	19	670	16	724	35	695
Ittar Pradesh .						788	366	665	357		186	12	315	14	96	26	197	12	315	20	124	32	196
Madhya Pradesh .						82	372	48	428	1,453 130	362	421	203	447	252	868	228	1,209	309	1,112	315	2,321	312
ihar						80	296	104	233	184	393	345	159	349	172	694	166	427	201	397	203	824	202
Prissa							250				260	335	247	304	211	639	230	415	256	408	217	823	237
Vest Bengal						8	244	2	29	10	001	•••	**	**	**	**	**		**				
ssam										10	201	17	128	20	402	37	276	25	165	22	369	47	260
fanipur							200	120	1774	***	1900	v.in	THE REAL PROPERTY.	- 118	**	164	100	111)	***	311	- 115		701
ripura							150	1516	100	183	120	12	(0)	20	etite	3.18	241)	1111	33%	186	**	351	199
ndhra Pradesh .						4	570	4	106	130	200	1115	385	10	11/1	5116	300	150	210	199	***	**	(8)
ladras						111	370	0.1	100	8	338	10	172	(a)	0_	- 11	156	14	285	- 5	85	19	232
erala						COLUMN TO SERVICE SERV	Dillic	-ille	100	emiz.	1000			.6	483	6	483	••	••	6	483	6	483
ijarat						128	696	148	599	276	611			mor log	HC.	min m	MAIN.	CHE OF	APIN :	enta.	Take.	nor of	Len.
aharashtra .						141	430	160	458		644	8	282	25	457	33	415	136	671	173	578	309	619
rsore						4	211	8	344	301	445	130	120	125	165	255	142	271	281	285	330	556	306
		_					211	0	344	12	300	26	116	44	95	70	103	30	129	52	133	82	132
India					•	1,659	418	1,560	398	3,219	408	1,549	202	1,545	216	3,094	209	3,208	314	3,105	307	6,313	311

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

orange v				manufa.					un-wei	ghted yiel	ld rate in	kilogra	ms per ac	re of gro	oss area							
state					-0		irrigated	d					non-irri	gated					comb	ned		
				8600	sub-sam	ple 1	sub-sam	ple 2	com	bined	sub-sam	ple 1	sub-san	ple 2	com	bined	sub-san	nple 1	sub-san	ple 2	com	bined
					no. of cuts	yield rate	no. of	yield rate														
(0)				o meles	(1)	(2)	(3)	(4)	(5)	(6)	(7)	. (8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Rajasthan		· namen			132	524	145	537	277	531	34	214	23	173	57	197	166	460	168	487	334	474
Punjab					9	615	18	629	27	624	3	270	15	396	18	375	12	529	33	522	45	524
Jammu & Kashmir		0.0000		0-9903							2	121	1	257	3	166	2	121	1	257	3	166
Delhi		11,0001	6 0	F-9463	1	846			1	846		**	13	111	13	111	1	846	13	111	. 14	164
Himachal Pradesh		. F 0203	12	a-ing								ese	2	131	2	131			2	131	2	131
Uttar Pradesh .				15-100 FA	372	323	398	312	770	317	188	130	226	164	414	149	560	258	624	258	1,184	258
Madhya Pradesh .					6	144	14	151	20	149	12	300	62	61	74	100	18	248	76	77	94	110
Bihar		-012364	-	0.0181	27	250	66	86	93	134	207	159	236	166	443	163	234	170	302	148	536	158
Orissa		0-8)91		0,5014							0.1	371		- 0	KUUT							
West Bengal		0 CAMPIT		0.6800			7	21	7	21	30	137	31	124	61	130	30	136	38	106	68	119
Assam		**		ń 11254							30						30					
Manipur	= 5				**		•			•••		•••								**	.7 01	
Tripura		· mentals			**				3371	**			.:-	*(4-	#1387 ··			••	••			
Andhra Pradesh .		0.8881		0.2928	.0	4010	***	*(1)	\$ 915	••	**	** **	**	-0	1730	••	• • •			** .	0:0	
Madras	*	u despare		0-1000		4139°	**.		4930		••	••••	Y	1	1627	•••			•24.		**	***
		-	•	•			•			••			••	• •	**	**			••			-
Kerala		* **		· duly-		••	4.			. 0.,	••	**	a.			v.	•••			•••	•••	
Gujarat		saling ;	250	dy s	mil		3	215	3	215	and the		ample 5	1	10-1	and by t	deits	61	3	215	3	215
Maharashtra .		• 11/2			4.		sub-	**		alle .	**		1	52	I	52	100-		1	52	1	52
Mysore	•	2 x b	• MAY		• •	lans		**	TWI.			10%,		**	U.F.		*	200	• •		Barrio.	-
All-India					547	372	651	: 341	1,198	355	476	154	610	157	1,086	156	1,023	271	1,261	252	2,284	260

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

state	pa	ddy	jowar		baj	ra	rag	i	n	naize	wh	eat	barley	**
State	sub- sample 1	sub- sample 2	sub- sample 1	sub- sample 2	sub- sample 1	sub- sample 2	sub- sample 1	sub- sample 2	sub- sample 1	sub- x sample 2	sub- sample 1	sub- sample 2	sub- sample 1	sub- sample 2
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Rajasthan	0.6526	0.4660	0.4154		0.4323		••		0.4627				- · ·	~
unjab	0.8831	0.7679	0.4010		0.5202		·		0.4730					**
ammu & Kashmir .	0.7575				0.3351			des	0.4787	0.0				
Delhi	0.0	0.8584				••	• #1		-					
Iimachal Pradesh	0.7301	0.6800	**			••		31.	. I		**		106. 76%	
ttar Pradesh	0.8181	0.8014			0.4615		0.4371		0.4084				100 500	
adhya Pradesh	0.7564	0.8361	0.6122		0.3923	0 195*	**90		0.3421	100	18 24		21 . 18	1.44
har	0.8051	0.8017	0.3492	0.4907	3/5 ••12	0.5116	0.5120	0.4376	0.4863	0.4865	280521	974	107 .0104	300
rissa	0.8583	0.9181					0.4835		0.4918	12.			1915	- 111
est Bengal	0.8841	0.8929			•••	11-11-11-11-11-11-11-11-11-11-11-11-11-	•		0.7368	det	**	••	-	
ssam	0.9056	0.8887												
anipur	0.8826		100	0.		200	34. ** \$1			135	180- ** 18	188	ens •• 804	
ripura	0.8557	0.8805			***		** (8)	**	Thur **(11)		nn	(10)	(10) ****	
ndhra Pradesh	0.8829	0.7558	0.4954	0.6867	0.5479	0.4396	0.4099	0.3533	0.5109	0.4747		- 41		
Iadras	0.8772	0.8788	0.5520	0.4767	0.5232	0.5400	0.4569	0.4282	0.4022	0.4150	7 W *			
erala	0.8902	0.8832		••		•••	0.3542				u biungle 1	100 0010	AN SIN	••
ujarat	0.8670	0.7416	0.4589		0.5878		THE OF STATE	anne luci des	0.4245		**-			**
aharashtra	0.8800	0.8372			0.4772		0.6528		0.4288					
ysore	0.8660	0.9003	0.4531	De-major	0.2880	Windmister)	0.6316	orated and	0.5466	grant or Hale				

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

		padd		jowar	pane	bajra		ragi	- · · ·	miaze		whe	at .	barle	
state	-	sub- sample 1	sub- sample 2	sub- sample 1	sub- sample 2	sub- sample 1	sub-	sub- sample 1	sub- sample 2						
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
ajasthan	•	0.00	11.00000	0.4463	0.4233	0.6271		•••		-144			**	•••	••
unjab		***			•••					**	***	••			••
ammu & Kashmir				.,							**	**		••	**
elhi			_		-	***	-				tele	0.0100	0.00	0 (0.15)	
imachal Pradesh .											54.9	***			
ttar Pradesh .		0.8200	0.8540	0.4956	0.4985	0.4924	0.4813	••			***	0.0002	0 0223	0.0021	0.001
ladhya Pradesh .		0.8693	0.8574	0.4921	0.5147			6.6859		0.5545	**	0.2924	0-820-4	0.300	0-557
har		0.8338	0.8597	0.5848	0.4009			0.4787	0.4008		**		0-2355	0/2550	0.423
Prissa		0.9000	0.8779	0.5999		••		0.4518	0.5514		-	0-2001	0-1957	••	10-011
Vest Bengal		0.9121	0.8866									0.3250	0.000	diagra.	-0.00
Assam		0.9167	0.9009	1			••					0.988	9 0011	1	200
Manipur		0.8421	0.8882	**						9+0	•••	0-3-13	0.000	ensels.	1000
Tripura		0.8613	0.8663		**					**		0-112	0.200	0.00	10.00
Andhra Pradesh .		0.8575	0.8727	0.5871	0.528	0.7776	0.4793		0.4352		*				H
Madras		0.8695	0.8989	0.5772	0.5949		0.5295	0.5839	0.4664	***		**		· · · ·	
Kerala		0.9147	0.8772	1000	ruurin	(archin	Training 5	up	Subject .	In the second	100	mp.	p-••		
Gujarat		0.9221	0.7615	0.6731	0.5547		- L	0.4370	0.4630				where	**	
Maharashtra		0.8200	0.8511	0.5382	0.5345	Anna a	0.4483	0.5781	0.6446	Sage Section	0.4950				
Mysore		0.8903	0.9126	0.6627	0.5691	0.6826	0.4811	0.4291	0.4042	dino terr				*:*	

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

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

state				ddy	Jo.	war	ba	ajara **	0 1210	ragi	m	naize		wheat	1	parley
May Mp			sub- sample 1	sub- sample 2	sub- sample 1	sub- sample 2	sub- sample 1	sub- sample 2	sub- sample 1	sub- sample 2						
(1)			(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Rajasthan .			0.0017	0.1975	· · ·	*.*			***				0.6164	0.5455	0.6612	0.6516
Punjab	,		days	n-man	***								0.5919	0.5843	0.6918	0.7609
Jammu & Kash	mir		0.0102	n and									0.5424	0.6072	0.6114	0.7609
Delhi .			0.71	0/8879	••		**						0.5560	0.6036	0.5317	0.564 3
Himachal Prades	sh .		0.90.70	0-8120	0-0-33				814013	0.934			0.5881	0.4595		0.5118
Uttar Pradesh			0 40 15	0.31(2)	0 2010	0-(855)	••	**	0.4777			**	0.5912	0.5978	0.7269	0.7541
Madhya Pradesh	*		0-80.75	0.0129	0.4.91	0.0111			e com		6-232	***	0.5526	0.5394	0.5269	0.5575
Bihar .	*	•	040.00	n buje	0.0350	3.00	0.4047	0.4813	***	***			0.6095	0.5773	0.6554	0.6074
Drissa			**	••							**					
Vest Bengal .		•	.esa			**		**	**	**	(*)*	*1**	0.4106	0.8107	0.6131	0.6704
Anipur .	dir.	•	6+6		••		••	**		••			••			
ripura .	*	•	0.07700	••	••	***	*****	••	•••		**	**	**			
ndhra Pradesh	•	•	0.8762	0.8596	0.000	0-0-2	0.0.4	••				••				••
Iadras .	•	•	0·7622 0·8889	0.8389	0.6838	0.5379			0.4813	0.4234	100	0.8555	0.5287	0.3747	010	8.0
erala			0.9096	0.9094	0.4088	0.6084	etatus 1	0.4000	0.4897	0.5160		••		0.5692	- 4.	10
ijarat .				0.9416	0.5940	0.5000		1117.	nile.	100.		1.0	45	mile.	Finite (The bres
aharashtra .	1				0·5340 0·5988	0.5983	0.8000	**				0.4338	0.6263	0.5886	•200	0.6753
sore			0.9062	0.9353		0.6133	: Balio of Ax	entry to the	a majawa of a	mai anto si	object to the same	0.3705	0.5967	0.5959		0.4043
	_	-	0.3002	0,9333	0.5817	0.6294	Sample Care	April 1 mile il	0.4301	0.6566	0.4172		0.5684	0.6599		

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

state		paddy	j	owar	ba	jra	ra	gi	mai	ze	whea	ıt	bar	ley
	sub- sample 1	sub- sample 2												
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Rajasthan	12.7			0.0		27.			0.4676		1	***	118.0	
Punjab	**	•••				0.0		••						
Jammu & Kashmir .		-			\$44B		F		3		0.5465			3
Delhi	· · ·													
Himachal Pradesh				-							5000			
Jttar Pradesh	000						••			-	0.4951	0.5365	0.6247	0.8665
fadhya Pradesh		***		010	4	+ .10			1		48.5			
har		•••							0.5031		11.5			
rissa	010,	0.8992					1.18		ē		49.34			
est Bengal	-	000	Page.	1.54	117.66		2 3 5		B 28					
sam				1.0								100	•••	
anipur			777	78.6					1					
		0.8427												
D 1 0 0	0.8484	0.8296	0.6633	0.3984			0.6162		29		3 ***		433	-
To deno	0.8661	0.9371	0.5402	0.5959				0.0500	Marie Marie		R. S.			***
			0.3402	0.3933			0.2945	0.3539	8 BA		1			**
erala	0.8950	0.9267	**						d	111	2000			**
ijarat	**)_				0.5788	0.5634		483	4 1		E S S S			**
aharashtra			17.	2.	2		a gran	1500	1	TEN S	THE PARTY	195	1994	**
lysore	0.9683	0.9325		1 5 P		4.0	0.5987	2 9 m. F	5.75	9 5	11.00	1 3.5 1		

APPENDIX I

SAMPLING DESIGN AND ESTIMATION PROCEDURE

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

- 2. Within a state, contiguous tehsils or parts of contiguous tehsils fairly homogeneous with respect to population density and altitudes and having good transport and communication facilities amongst them were grouped together to form compact strata as far as possible such that the sum of the sizes of the villages in each stratum was exactly equal, the size of a village being the ratio of its population to the average population of a village in the population class (0-499) of that state, rounded off to a suitable integer. In the whole of India 353 strata were formed.
- 3. The allocation of the total sample size to the various states was done on a joint consideration of the rural population, area under food crops and the investigator strength in the central NSS Blocks of the States. The allocation was modified to ensure a minimum sample size, for the central sample of 360 villages in each State and about 200 sample villages in each of the Union Territories Manipur and Tripura. The allocation was rounded off to 24 or multiples of 24 to facilitate having 4 sub-samples of 6 villages each per stratum.
- 4. The frame used for selection was the list of villages as per the 1961 census. Within each stratum the tehsils were arranged in a serpentine order and four independent interpenetrating sub-samples of 12 villages each were selected 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 seasons. The crop-cutting experiments were conducted in villages 1, 3 and 6 of sub-samples 1 and 2 only of each stratum for all the four seasons.
- 6. In sample villages meant only for land utilisation survey a circular systematic sample of 4 clusters of 5 plots each and in sample villages meant for both land utilisation survey and crop-cutting experiments a circular systematic sample of 6 clusters of 10 plots each were selected per village. This selection procedure was adopted where cadastral maps for the villages were available and also in case of villages (without maps) where a list of plots was available. The sample clusters were selected through the basic plots (equal to number to the number of clusters to be selected), selected 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 a radius of 5 miles of the sample village were surveyed. If the number of households in the village was less than 4 or 6 as the case may be all the households were taken up for the survey. The same set of sample clusters or plots possessed by same set of households were surveyed for all the seasons.
- 7. In each season six sub-plots from the sample plots surveyed for land utilisation were selected with probability proportional to the gross area under the specified crops. From a selected sub-plot, yield data were collected from one circular cut selected at random (per crop) in case the sub-plot was growing any of the cropspaddy, ragi, wheat (grown pure) or barley (grown pure) and from two cuts selected at random (per crop) in case of sub-plots growing—jowar, bajra, wheat (mixed). maize or barley (mixed). If the number of sub-plots having the specified cereal crops in a village was less than 6, all these sub-plots were taken up for crop-cutting experiments. Selection of sub-plots for crop-cutting experiments was done afresh in each season.
 - 8. Estimation procedure :
 - 8.1 Notation :

s=subscript for sth stratum/sub-stratum

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

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

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

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

z=size (used for selection) of the village

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

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

H=total number of households in the village
n=number of clusters/households selected
c=cluster size (in terms of number of plots)
a=area under a particular crop
y=yield rate for a particular crop

- 8.2 The estimate of area and yield rates for each crop were obtained separately for each crop season and for each sub-sample for crop grown 'pure' and 'mixed' separately. The estimates of crop production was obtained as a product of the estimate of the crop area (based on all sample villages where land utilisation survey was conducted including crop-cutting villages) and the estimate of yield rate (obtained from all sample villages where crop-cutting experiments were conducted).
- 8.3 Acreage estimate.—An estimate of the gross (separately for 'pure' and 'mixed') area under a paticular crop in a particular season for a given sub-sample in a State is given by

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

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 villges surveyed.

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

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

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

 $\hat{A} = \overset{k}{\underset{s=1}{\Sigma}} \overset{\wedge}{A_{s}} \text{ where } \overset{\wedge}{A_{s}} \text{ is the sth stratum estimate }$

and $A_s = \frac{z}{v} \frac{v}{i=1} \frac{A_{si}}{Z_{si}}$ where A_{si} is the estimate for the ith village in the sth stratum and

$$\stackrel{\Lambda}{A_{si}} = r_{si} \, \frac{N'_{si}}{r_{si}} \, A_{si}$$

- 8.4 Substitutions.—If any of the selected villages was a casualty for the land utilisation survey for a season in the sense that it could not be surveyed, it was to be substituted by the next sample village selected for land utilisation survey in that stratum. Similarly if a cluster/household selected for acreage survey in a village was a casualty it was substituted by the next surveyed cluster/household. Likewise if a selected plot in a cluster selected for acreage survey was a casualty, it was substituted by the next plot. No substitution was done in post card schedules.
- 8.5 Production estimate.—The production estimate P is the product of Y, an estimate of the yield rate of the crop based on the villages reporting crop-cutting experiments and A, an estimate of the area under the crop based on all the villages selected for the land-utilisation survey.

8.6 The estimate \hat{Y} is given by

$$\stackrel{\wedge}{\mathbf{Y}} = \stackrel{\Sigma'}{\underset{\mathbf{S}}{\mathbf{A}_{\mathbf{S}}}} \stackrel{-}{\overset{-}{\mathbf{Y}_{\mathbf{S}}}} / \stackrel{\Sigma'}{\overset{\wedge}{\mathbf{A}_{\mathbf{S}}}}$$

where $Y_s = \text{simple average of yield rates over the cuts taken for the crop in the sth stratum.}$

 $\begin{array}{ll} \overset{\wedge}{A_s} = & \text{obtained as described in paragraph 8.3} \\ \Sigma' & \text{denotes summation over only those strata} & \text{reporting crop-cutting experiments} \\ & \text{for that crop.} \end{array}$

^{*} r = 1 When the surveyed tevenue village coincides with the sample census village and the whole of it was surveyed.

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

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

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

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

- 8.7 As mentioned before, the area survey was planned to be conducted in all the sample villages of each of the four sub-samples while crop-cutting experiments were planned for a sub-set of villages of sub-samples 1 and 2 only. The production estimates have therefore been obtained as the product of
 - (i) acreage estimate from sub-samples 1 and 3 combined and the estimates of yield rate from sub-sample 1 (designated as half-sample 1)
 - (ii) acreage estimate from sub-sample 2 and 4 combined and the estimate of yield rate from sub-sample 2 (designated as half-sample 2).

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

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

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

APPENDIX—II

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

season				states				strata excluded
(1)				(2)				(3)
1. Autumn				West Bengal				1 and 17
2. Winter				Rajasthan				14
				Punjab				5 and 6
				Jammu and Kashmir				2, 5, 6 and 7
				Delhi		100		1
				Himachal Pradesh				1
				Uttar Pradesh .				23
				West Bengal .				2, 17 and 22
				Manipur				7
				Andhra Pradesh .				22
3. Spring				Jammu and Kashmir				5 and 7
openig				Uttar Pradesh .				23
				West Bengal .	3			1, 2, 9 and 17
				Assam				3, 6, 12 and 13
				Manipur				7
4. Summer			. 1.	Rajasthan	•			9 and 14
				Punjab				1
				Jammu and Kashmir				5, 7 and 11
				Uttar Pradesh .	4			1, 11, 23 and 40
				Bihar			•	18
				West Bengal .				1, 2, 9, 10, 11 and 12
				Assam				6 and 13
		*		Maharashtra				16

APPENDIX III-Facsimile of the Schedule of Investigation

*delete whichever is inapplicable.

GOVERNMENT OF INDIA NATIONAL SAMPLE SURVEY 1965-66

ORIGINAL*
DUPLICATE

RURAL

Schedule 5.0: Land Utilisation

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(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
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^{*} 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.

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

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serial number	cluster/h	number	survey number	geographical (0.00) acres	sub-plot number	area of sub-plot as percentage of geo- graphical area of plot	utilisation type	name of crops	crops code*	season code**	name	season code**	paddy	jowar	bajra	ragi	maize	wheat	barley	small millets	paddy	jowar	bajra	ragi	maize	wheat	barley	small millets
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seria	local name	code*	name of crops	crop 6	mixed crop	normal year	current year	normal year	current year	normal year	current	normal year	current
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^{*}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 *not to be filled in by the investigator.

GOVERNMENT OF INDIA NATIONAL SAMPLE SURVEY: 1965-66

Schedule 5.1: Crop-cutting Experiments

AUTUMN

(Twentieth Round)

RURAL	CONTRACTOR OF THE PROPERTY OF	
	[1] identification particulars of village	
1. serial number	6. method code	11. state
2. zone-state-region	7. date of area survey	12. district
3. stratum	8. number of visits for crop-cutting	13. tehsil/taluk/thana*
4. sub-sample	9. total number of experiments	14. name of village
5. sample village	10. number of sheets for block 6	15. village area (0.00 acres)
5. sample vinage		
	[2] investigation particulars	
1. investigator: name r	oll no date (i) survey (ii) d	espatch signature
	ate (i) inspection (ii) scrutiny (iii) d	
3. scrutiniser: name d	ate (i) receipt (ii) scrutiny (iii) d	espatch signature
Planta de la companya della companya della companya de la companya de la companya della companya	[3] remarks by investigator	
	[4] semants by inspector	
	[4] remarks by inspector	
		CONTRACTOR OF THE PARTY OF THE
[5] number of san	mple fields (sub-plots) in which crop-cutting	g experiments were done
srl.	item	number
no. (1)	(2)	(3)
1. sample fields originally selected for	or crop-cutting	
I I to I Cold to them on	op-cutting experiments were done	
- 1 0 11 h tituted for evigi		3
- 1 Call whom or on	cutting experiments were done (srl. no. 2+3)	
5. sample fields missed for crop-cuttle		

^{*}Delete whichever is inapplicable.

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total gross area	(0.00 ac	res)=		• • • • • • • • • • • • • • • • • • • •			2. interval (I) =		-=		ecentric ma energia;		
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. R+4I=							8. R+5I=		212 1831				• • •
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	survey number	-qns	gross area (0.00 acres)	um	orde	anse		survey number	sub-plot number	gross area (0.00 acres)	cumulative gross area (0.00 acres)	order of selection	
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nan	ne of c	rop	survey	number	sub-plot number	gross area	(0.00 acres)	cumulative	(0.00 acres)	order of selection	cause of rejection*	nan	ne of	crop		survey	sub-plot	SECTION AND DESCRIPTION AND DE	(0.00 acres)		-	order of selection	cause of
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of sub-plot group	rop	mbe		e of	e e	order of selection of sub-plot		order of selection of sub-plot group	crop	survey number		je of	ve	order of selection of sub plot	*	order of selection of sub-plot group	name of crop	survey number		ge of	ive	order of selection of sub-plot	*
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ns Jo	name	surve	sub-plot number	percentage gross area	cumulative	order of se of sub-plot	cause of rejection	orde of su	nam	surv	sub-plot	percenta gross ar	cum	orde of so	caus	ord of s	nan	sur		and the same			
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order of selection	survey	sub-plot number	name				na	me o with	f cultiv	vator ess			cu	the ltivat for rmissi	or	probable week of	harvesting	cultivator's attitude**	pos	ssessed	Ci ci	und rops o refere seas	of the ence
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^{*} harvested—1, not permitted by cultivator—2, others—3.

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

r	ando	m nı		used:starti	ing wit	h page													iments				line					I	Block 1	0 : Sum expe	mary erimen		p-cutti	ing
		er	der-crop			M	(a)	9			crop (e)	of s	gth sides eps)	len of : (ste	gth axes	ranc	lom	doro 1			1000	green (gms.)	crop		1-	num	ber of	plants	313			iber of	total 4' c	yied
	mbe	number	nu old-c	do	н	101	code	manure	of seed	e (d	of cr	7.						taking of green	alk	2'3"*	00		4'-2'3"	*		2'3"*		1 4	·*			413	(gr.	ams)
1	survey number	sub-plot	gross area under-crop in the sub-plot (0.00 acres)		cut number	pure crop-	irrigation	type of used (b	variety	-	condition of	east-west	north-south	X	Y	x	V	date of tak weight of g	border	others	total	border	others	total**	wholly inside	inside border (Bi)	outside border (Bo)	inside border (Bi)	outside border (Bo)	crop	pure	mixed	pure	havim
)	(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)	(28)	(29)	(30)	(1	(2)	(3)	(4)	-
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⁽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) improved variety from: (i) agricultural department—1; (ii) market—2; (iii) other sources—3; local variety—4 GIPN—S6—7 C. S. O. Cal./68—6-8-59—0,000.

⁽d) broadcasting-1, transplanting-2, drilling-3, others-4 **not to be filled in by the investigator.

⁽e) very good-1, good-2, average-3, poor-4, very poor-5

indicates radius of circle.

CENTRAL*

ORIGINAL*
DUPLICATE

GOVERNMENT OF INDIA NATIONAL SAMPLE SURVEY: 1965-66

Schedule 5.2 : Driage Experiments

AUTUMN

RURAL

(Twentieth Round)

l. serial number	5. sample village	8. district
2. zone-state-region		9. tehsil/taluk/thana*
3. stratum	6. method code	10. name of village
1. sub-sample	7. state	11. village area (0.00 acres)
	[2] investigation particula	urs
1. investigator : name	roll no date (i) con	apletion of driage experiments
(ii) despatch		
2. inspector: name		(ii) scrutiny
(iii) despatch		
3. scrutiniser: name		(ii) scrutiny
(iii) despatch	signature	······
	[3] remarks by investigat	or

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order of selection	name of crops	cut no.	weight of green crop	crop (in gms)	date	weight (in gms)	date	weight (in gms)	date	weight (in gms)	date	weight (in gms)	date	weight (in gms)	date of taking final weight of dry grains	weight of dry grains only
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NATIONAL SAMPLE SURVEY REPORTS ALREADY PUBLISHED

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

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

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

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