

Sarvekshana

सर्वेक्षण

JOURNAL OF
THE NATIONAL SAMPLE SURVEY
ORGANISATION



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July-October 1985

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July-October 1985

Department Of Statistics
Ministry Of Planning
GOVERNMENT OF INDIA

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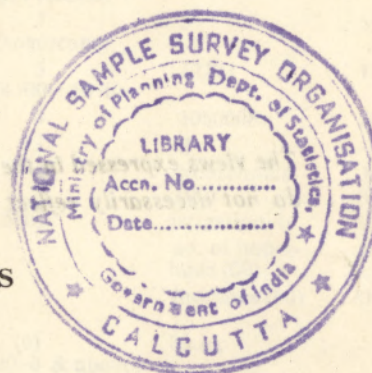
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2. Haryana
3. Himachal Pradesh
4. Jammu & Kashmir
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11. Goa, Daman & Diu
12. Pondicherry.

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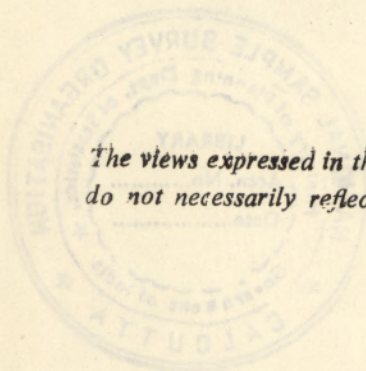
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The views expressed in the articles and notes are those of the contributors and do not necessarily reflect those of the National Sample Survey Organisation.

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selected important results of the Survey on use of irrigation on household holdings—NSS 31st Round (July 1976-June 1977)

on unimproved household holdings—States and All India : NSS 31st Round July 1976-June 1977

States given for the States/Union territories :

1. Haryana 2. Himachal Pradesh 3. Jammu & Kashmir 4. Kerala 5. Madhya Pradesh 6. Punjab 7. Rajasthan

8. Uttar Pradesh 9. West Bengal 10. Andhra Pradesh 11. Gujarat 12. Karnataka 13. Madhya Pradesh 14. Madhya Pradesh

ERRATA

(SARVEKSHANA, Vol. IX, Nos. 1 & 2, JULY—OCTOBER, 1985 (ISSUE No. 25))

Sl. No.	Page	State	Table No.	Column No.	Line/Row	For	Read
1	2	3	4	5	6	7	8
1.	1	—Para	1.3	—	4	cannvassing	canvassing
2.	1	—Foot	Note 1	—	1	district of Bastar	district Bastar
3.	1	—Foot	Note 2	—	1	details of	details on
4.	3	—Para	1.3	—	1	A the	All the
5.	S-9	GUJARAT	8	(0)	5	all cereal	all cereals
6.	S-9	Do.	8	(0)	9	all other	all other crops
7.	S-10	Do.	9	(4)	col. no.	(4)	(4)
8.	S-10	Do.	9	(5)	col. no.	5)	(5)
9.	S-10	Do.	9	(6)	col. no.	(6)	(6)
10.	S-11	Do.	11	(8)	7	121	12
11.	S-17	HARYANA	2	(9)	heading	wind m milll	wind mill
12.	S-18	Do.	4	(0)	3	private-joint	private-joint
13.	S-21	Do.	9	(8)	16	2	235
14.	S-23	Do.	13	(1)	(all cereals)		
15.	S-24	Do.	15	(2)	7	5	59
					(sugarcane)		
16.	S-25	Do.	17	(4)	5	12221	1221
17.	S-26	Do.	18	(3)	4	3060008	306008
18.	S-27	HIMACHAL PRADESH	0	(0)	13	S	—
19.	S-27	Do.	0	(0)	4	households (00)	households ^a (00)
20.	S-28	Do.	3	(0)	5(ii)	irrigation b	irrigation ^b
21.	S-28	Do.	3	(0)	heading for cols. (1) to (6)	no. of households (00)	no. of households (00)
22.	S-28	Do.	3	(0)	heading for cols. (7) to (12)	(hectares (00))	(hectares (00))
23.	S-28	Do.	3	(9)	(6)	blank	—
24.	S-30	Do.	7	(10)	(10.0 & above)	blank	—
25.	S-31	Do.	8	(4)	Do.	blank	6
26.	S-33	Do.	11	(3)	2	blank	
27.	S-37	Do.	19	(0.05—0.1)	12	5540	540
28.	S-37	Do.	19	(12)	(wheat)		
29.	S-38	JAMMU & KASHMIR	0	(12)	9	1096	1396
30.	S-42	Do.	8	(0)	(all crops)		
31.	S-44	Do.	10	(0)	column heading	0	(0)
32.	S-44	Do.	10	(0)	Do.	1	(1)
33.	S-44	Do.	10	(0)	4	households (00) a	households ^a (00)
34.	S-45	Do.	13	(0)	16	all other commodities	other crop commodities
35.	S-49	KERALA	0	(0)	5	all pulses	all pulses
36.	S-49	Do.	0	(0)	7	other crops commodities	other crop commodities
37.	S-49	Do.	0	(10)	4	12	112
38.	S-50	Do.	2	(3)	2	10	102
39.	S-51	Do.	4	(1)	Top left	GENERAL SAMPLE	GENERAL SAMPLE
40.	S-53	Do.	8	(4)	heading 2nd line	households a (00)	households ^a (00)
					5(ii)	irrigation b	irrigation ^b
					(1)	CLASS OF HOLDING	CLASS OF HOLDING
					3	0	—
					heading	by pests diseases	by pests & diseases

1	2	3	4	5	6	7	8
41.	S-53	KERALA	8	(0)	5	other crop commodity	other crop commodities
42.	S-53	Do.	8	(0)	12	other crop commodity	other crop commodities
43.	S-53	Do.	8	(0)	13	all other crop	all other crops
44.	S-53	Do.	8	(9)	11 (all oil seeds)	141	14
45.	S-54	Do.	9	(4)	heading	by pests diseases	by pests & diseases
46.	S-54	Do.	9	(0)	5	other crop commodity	other crop commodities
47.	S-54	Do.	9	(0)	12	other crop commodity	other crop commodities
48.	S-55	Do.	10	(0)	5	other crop commodity	other crop commodities
49.	S-55	Do.	11	(0)	5	other crop commodity	other crop commodities
50.	S-55	Do.	11	(11)	2	995	795
51.	S-58	Do.	16	(3)	2	3	—
52.	S-58	Do.	16	(3)	4	—	3
53.	S-58	Do.	17	heading		NUMBER OF PUMPSETS	NUMBER OF PUMPSETS*
54.	S-58	Do.	17	(2)	3	79900	70900
55.	S-59	Do.	18	heading for columns (1) to (5)		airrigated	irrigated
56.	S-59	Do.	18	(3)	2	32	43
57.	S-59	Do.	18	(4)	5 (electricity for owned jointly)	blank	—
58.	S-60	At the top of the page				July—October 1985	SARVE-KSHANA
59.	S-60	At the top of the page				SARVE-KSHANA	July—October 1985
60.	S-61	PUNJAB	3	column heading for (1) to (7)		no. of hous holds (00)	no. of house-holds (00)
61.	S-62	Do.	4	Table heading 1st line		OF TH SOURCE	OF THE SOURCE
62.	S-63	Do.	7	footnote 1st line		or continuously	or contiguously
63.	S-68	Do.	14	(2)	14	blank	—
64.	S-68	Do.	14	(3)	14	blank	132
65.	S-68	Do.	15	footnote 1st line		on member of	on number of
66.	S-68	Do.	15	footnote last line		10	to
67.	S-70	Do.	18	(4)	3	5	—
68.	S-70	Do.	19	(0)		channeps	channels
69.	S-71	RAJASTHAN	0	(0)	5(i)	irrigation b	irrigation
70.	S-71	Do.	0	(0)	5(ii)	irrigation	irrigation ^b
71.	S-72	Do.	2	under columns (1) to (12)		number of households (00)	number of households (00)
72.	S-72	Do.	3	(5)	5	52	25
73.	S-75	Do.	8	(0)	19	a pulses	all pulses
74.	S-76	Do.	9	(7)	15	57 (Maize)	37
75.	S-78	Do.	12	(6)	4	1310	13104
76.	S-80	Do.	16	(0)	7	no recorded	not recorded

1	2	3	4	5	6	7	8
77.	S-80	RAJASTHAN	17	(8)	heading 3rd line	of valu	of value
78.	S-82	TAMIL NADU	0	(1)	3	8238	8230
79.	S-83	Do.	3	(0)	heading	size class of holding	size class of holding (hectare)
80.	S-85	Do.	7	State name		TAMILNAD	TAMIL NADU
81.	S-86	Do.	8	(0)	8	other crop/ commodity	other crop commodities
82.	S-86	Do.	8	(0)	18	other crop commodity	other crop commodities
83.	S-86	Do.	8	(9)	8	14574	4574
84.	S-89	Do.	12	Table heading 1st line		BY CRNP/	BY CROP/
85.	S-89	Do.	13	Table heading 2nd line		BY CROP/ CROP GROUPS	BY CROP/ CROP GROUP
86.	S-89	Do.	13	(3)	10	2576	25761
87.	S-90	Do.	14	Table heading		2nd line is to be read as: DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES—3 YEARS OR MORE) OWNED BY	
88.	S-90	Do.	14	Table heading 3rd line		CLASS OF HOUSEHOLD	CLASS OF HOUSEHOLD
89.	S-90	Do.	14	(6)	heading	10·0 above	10·0 & above
90.	S-90	Do.	14	(0)	16	other (animal drawn)	others (animal driven)
91.	S-90	Do.	14	(0)	17	countar paise	counterpoise
92.	S-90	Do.	15	footnote 2nd line		rest. In	rent. In
93.	S-90	Do.	15	footnote 2nd line		total numbers	total number
94.	S-90	Do.	15	footnote 3rd line		has less counted	has been counted
95.	S-91	Do.	17	footnote		See fotnote table 15	see footnote in table 15
96.	S-92	Do.	18	(0)	11	both elctricity	both electri- city
97.	S-92	Do.	18	column heading for (1) to (5)		no. of the pumpsets (00)	no. of pump- sets (00)
98.	S-92	Do.	18	for onwership 1st line		owned singly	owned singly
99.	S-93	UTTAR PRADESH	1	(5)	4	25660	25560
100.	S-94	Do.	3	(0)	6	10·0 & bove	10·0 & above
101.	S-97	Do.	8	Table heading last line		BY CROPS/ CROP GROUP	BY CROP/ CROP GROUP
102.	S-99	Do.	10	Table heading last line		BY/CROP CROP GROUP	BY CROP/ CROP GROUP
103.	S-99	Do.	10	(2)	11	6312	6321
104.	S-101	Do.	14	under. Col. (0)		agricrual	agricultural
105.	S-101	Do.	14	(6)	2	5042	5043
106.	S-101	Do.	14	(7)	6	32691	132691
107.	S-101	Do.	15	Table heading 1st line		OF PUM- SETS	OF PUMP- SETS
108.	S-101	Do.	15	footnote		counted a	counted as
109.	S-101	Do.	15	(2)	1	260	250
110.	S-102	Do.	16	(2)	7	18	184
111.	S-102	Do.	16	(4)	1	1	17
112.	S-102	Do.	16	footnote		see footnote	*see footnote

1	2	3	4	5	6	7	8
113.	S-104	DELHI	1	(13)	5	blank	83
114.	S-106	Do.	4	(2)	3	—	3
115.	S-106	Do.	4	(2)	5	—	3
116.	S-106	Do.	4	(3)	3	3	—
117.	S-106	Do.	4	(3)	5	3	—
118.	S-107	Do.	6	Table heading 2nd line		AND REA SON	AND REASON
119.	S-107	Do.	6	(4)	1	blank	—
120.	S-107	Do.	7	(4)	heading	not irrigated	not irrigated
121.	S-108	Do.	8	Table heading 4th line		IRRIGATEÆ	IRRIGATED
122.	S-110	Do.	11	col. heading for (1) to (12)		area hectares 00)	area (hectares 00)
123.	S-112	Do.	14	col. heading for (1) to (7)		equipments and	equipments and draught
124.	S-115	GOA, DAMAN & DIU	0	(0)	4	households a(00)	households (00)
125.	S-115	Do.	0	(0)			
126.	S-115	Do.	1	Table heading last line	5 (ii)	irrigation b	irrigation ^b
127.	S-116	Do.	2	(10)	heading	IRRIGATION BY	IRRIGATION FACILITY BY
128.	S-117	Do.	5	(0)	heading	otheres	others
129.	S-125	Do.	19	(1)	6	lifting	lifting equipment
130.	S-126	PONDICHERRY	1	(7)	7	96	698
131.	S-126	Do.	1	(8)	7	230	203
132.	S-128	Do.	4	(2)	1	19	9
133.	S-128	Do.	4	(2)	5	2	—
134.	S-128	Do.	4	(3)	1	2	—
135.	S-128	Do.	4	(3)	5	—	2
136.	S-129	Do.	6	(0)	col. no.	—	2
137.	S-130	Do.	9	col. heading for (5) to (8)		0()	(0)
138.	S-130	Do.	9	(4)	heading last line	(hectres 00)	(hectares 00)
139.	S-130	Do.	9	(0)	10	disases	diseases
140.	S-130	Do.	9	(6)	8	oil ceeds	oil seeds
141.	S-131	Do.	10	(8)	4	1	—
142.	S-131	Do.	10	(8)	6	—	1
143.	S-131	Do.	10	(10)	6	—	1
144.	S-133	Do.	14	(7)	3	1	2
145.	S-133	Do.	15	footnote 2nd line		4	43
146.	S-137	—	—	page no. for table 0		of the house share S-137	of the house- hold share S-138
147.	S-139	GUJARAT	1	(8)	1 (below 0.5)	694	594
148.	S-140	Do.	1	Table heading 1st line		TABLE 1 : Contd.	TABLE 1 Contd. :
149.	S-143	Do.	1	(8)	heading	gross cropped area	gross cropped area
150.	S-151	Do.	3	(20)	heading	other all seeds	other oil seeds

USE OF IRRIGATION IN HOUSEHOLD HOLDINGS NSS 31ST ROUND (JULY 1976-JUNE 1977)

PART I

ARTICLES/NOTES

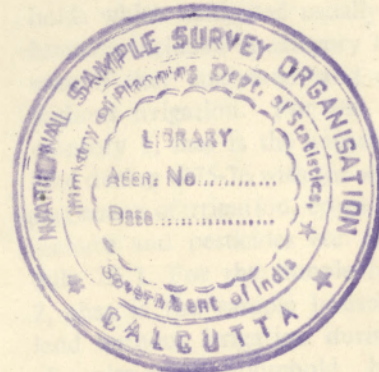
1. INTRODUCTION

1.1. A study on the use of irrigation in rural areas was carried out by the National Sample Survey Organisation (NSSO) in the 31st round of the NSS from July 1976 to June 1977. In this survey particular attention was given to household holdings which were surveyed by household enquiry from a sample of household holdings. Information on crops grown and use of irrigation facilities and facilities of the household holdings was also collected. The reference period for the survey was the agricultural year July 1976-June 1977.

1.2. The survey covered the whole of India except the State of Jammu and Kashmir and the territories of Chandernagore, Pondicherry, Andhra State, Kerala State, Madhya Pradesh, Assam, Arunachal Pradesh, Mizoram, Lakshadweep and Dadra & Nagar Haveli.

1.3. All the States and Union Territories included in the geographical coverage of the survey were covered by the survey at least on a full matching basis of rural areas. A sample of rural area holdings was selected in each State and Union Territory.

1.4. For the purpose of the survey, rural area was defined as village, town and city. The rural area was defined as village, town and city. The rural area was defined as village, town and city.



USE OF IRRIGATION IN HOUSEHOLD HOLDINGS : NSS 31ST ROUND (JULY 1976—JUNE 1977)

1. INTRODUCTION

1.1 A survey on the use of irrigation in rural areas was carried out by the National Sample Survey Organisation (NSSO) in the thirtyfirst round of the NSS from July 1976 to June 1977. In this survey particulars of irrigation in household holdings were collected by household enquiry from a sample of household holdings. Information on crops grown and use of fertilisers, manures and pesticides in the household holdings was also collected. The reference period for the survey was the agricultural year July 1975—June 1976.

1.2 The survey covered the whole rural India except the States of Sikkim, Nagaland and Meghalaya and Union Territories of Chandigarh, Arunachal Pradesh, Andaman & Nicobar Islands, Mizoram, Lakshadweep and Dadra & Nagar Haveli¹.

1.3 All the States and Union Territories included in the geographical coverage of the survey participated in the survey at least on a full matching basis by canvassing a sample of equal size following identical concepts and definitions.

1.4 For the purpose of the survey there was a general sample of villages distributed all over the country. Also, there was an additional special sample of villages from the command areas of (i) major irrigation projects commissioned after 1947 and (ii) medium irrigation projects commissioned after 1964. In the central sample, the number of villages planned to be surveyed was 8304 for the general sample and 2054 for the special sample from the command areas of major and medium projects.

1.5 For the general sample the design was stratified two stage with district (or portion of district) as stratum, village as first stage unit and household as second stage unit of sampling. The list of 1971 census villages was used as sampling frame for the

general sample. In each sample village a fixed number of households was initially selected circularly systematically after arranging all the households in the village in a specified order².

1.6 The sample households selected in each sample village were divided into three mutually exclusive categories : category 1 consisted of households which cultivated at least some plot of land during 1975-76 with irrigation, category 2 consisted of the households which cultivated land during 1975-76, wholly without irrigation and category 3 consisted of residual households which did not cultivate any land during the period. Such households which cultivated usually using irrigation were however included in category 1 and not in category 2 even if they cultivated land during 1975-76 wholly without irrigation. For the sample households of category 1, that is the households which cultivated land during 1975-76 with (or usually using) irrigation, particulars of irrigation, crops grown, uses of fertiliser, manure and pesticides etc. were collected in schedule 22.1. For the sample households of category 2, that is the sample households which cultivated land without irrigation during 1975-76, particulars of unirrigated household holdings were collected in schedule 22.2. For the households of category 3, no schedule was canvassed.

1.7 The results presented in different tables are based on the data collected in schedule 22.1 in the general sample of villages in the central sample in twelve States/Union Territories, namely Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Kerala, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, Delhi, Goa, Daman & Diu and Pondicherry³. Information on area possessed, net area sown, net area irrigated, gross area irrigated, area irrigated by different types of irrigation, area under various irrigated & unirrigated crops, use of fertilisers, manure and pesticides, expenditure on

¹ Two tehsils of district Surguja & four tehsils of district of Bastar of Madhya Pradesh; three tehsils of district Chandrapur & one tehsil of district Amravati of Maharashtra and Ladakh district of Jammu & Kashmir were also not covered.

² The details of important concepts and definitions as well as on sample design and estimation procedure have been given in Sarvekshana, Vol. VIII, No. 2, October 1984

³ For other 10 states the results have already been published in Sarvekshana Vol. VIII, No. 2, October 1984.

irrigation etc. relating to households usually using irrigation are presented in different tables. Estimates of total area possessed, area possessed with irrigation facility, net area sown, net area irrigated by

type of irrigation, gross crop area, gross area irrigated by type of irrigation etc. for such households for the twelve States/Union Territories are presented in table A in a summarised form⁴.

TABLE A : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION, AREA POSSESSED, NET AREA SOWN, NET AREA IRRIGATED AND AREA UNDER CROP BY STATES/UNION TERRITORIES
[figures in columns 2-22 are in 00 hectares]

state/ union territory	no. of house- holds (00) usually using irrigation	area possessed			net area irrigated			net area irrigated by flow from		
		total	irrigable	net area sown	total	by flow	by lift	canal	tank	others
0	1	2	3	4	5	6	7	8	9	10
1. Gujarat	10585	35233	17917	34066	11038	1562	9476	1313	12	237
2. Haryana	7781	28118	19835	26902	15984	7306	8678	7247	—	59
3. Himachal Pradesh	1815	2517	897	1877	817	771	46	2	2	767
4. Jammu & Kashmir	3950	4157	2198	3680	2173	2084	89	660	—	1424
5. Kerala	11551	7991	4188	7222	2969	1071	1898	619	63	389
6. Punjab	8171	29730	25478	28426	24512	7535	16977	7473	1	61
7. Rajasthan	21691	71547	32136	62141	25945	10566	15379	9423	1023	120
8. Tamil Nadu	30654	42230	25610	34462	20284	9759	10525	5790	3874	95
9. Uttar Pradesh	98079	131457	105201	121633	83870	21354	62516	20599	73	682
10. Delhi	378	749	610	717	558	55	503	51	—	4
11. Goa, Daman & Diu	217	168	87	147	78	66	12	—	1	65
12. Pondicherry	167	158	147	147	135	53	82	51	2	—

net area irrigated by lift								gross area irrigated			
net area irrigated by lift from			using		by ownership of lifting equipment			gross area under crop	total	by flow	by lift
well & tube well	river	others	elec- tricity & diesel	others	private joint	private single	others				
11	12	13	14	15	16	17	18	19	20	21	22
9192	105	179	3256	6220	3292	6002	182	40603	12209	2012	10197
8542	—	136	8179	499	2882	5565	231	38683	20527	9106	11421
45	—	1	45	1	16	11	19	3299	1396	1308	88
18	69	2	81	8	—	20	69	4556	2787	2584	203
1090	179	629	312	1586	41	1788	69	9147	3853	1659	2194
16887	75	15	16465	512	3956	12861	160	45929	39381	10814	28567
15050	190	139	5695	9684	6212	9101	66	75687	27884	11426	16458
10179	86	260	6775	3750	2635	7830	60	43613	25761	11752	14009
55704	1308	5504	45567	16949	7728	48003	6785	180862	10530	28501	75029
502	—	1	208	295	69	423	11	1188	829	73	756
10	—	2	—	12	7	5	—	187	78	66	12
82	—	—	78	4	6	76	—	210	180	74	106

4. Information on a few select items was presented earlier in NSS draft Report no. 289 as well as in Sarvekshana, vol. III, No. 2, October 1979.

A NOTE ON UNIRRIGATED HOUSEHOLD HOLDINGS : NSS 31ST ROUND (JULY 1976—JUNE 1977)

1. INTRODUCTION

1.1 A survey on Irrigation was carried out in the rural areas by the National Sample Survey Organisation (NSSO) during July 1976 to June 1977 as part of its 31st round survey operation. Apart from collecting information on irrigation and other particulars in respect of the holdings of the cultivator households usually using irrigation, information on unirrigated holdings of cultivator households not using irrigation was also collected in this round. The reference period for the survey data was the agricultural year July 1975—June 1976.

1.2 The survey covered the whole of rural India except the states of Sikkim, Nagaland and Meghalaya and Union Territories of Chandigarh, Arunachal Pradesh, Andaman & Nicobar Islands, Mizoram, Lakshadweep and Dadra & Nagar Haveli¹.

1.3 The States and Union Territories included in the geographical coverage of the survey participated in the survey by canvassing a sample of at least full matching size (State Sample) following identical concepts and definitions.

1.4 For the purpose of the survey there was a general sample of villages, distributed all over the country. Also, there was an additional special sample of villages from the command areas of (i) major irrigation projects commissioned after 1947 and (ii) medium irrigation projects commissioned after 1964. In the Central Sample (the sample canvassed by the field staff of NSSO), the number of villages planned to be surveyed was 8304 for general sample and 2054 for the special sample from the command areas of major and medium projects.

1.5 For the general sample the design was stratified two stage with district (or portion of district) as stratum, village as first stage unit and household as second stage unit of sampling. The list of 1971

census villages was used as sampling frame for the general sample. In each sample village a fixed number of households was initially selected circularly systematically after arranging all the households in the village in a specified order².

1.6 The sample households selected in each sample village were divided into three mutually exclusive categories : category 1 consisted of households which cultivated at least some plot of land during 1975-76 with irrigation, category 2 consisted of the households which cultivated land during 1975-76 wholly without irrigation and category 3 consisted of residual households which did not cultivate any land during the period. Such households which cultivated usually using irrigation were however included in category 2 even if they cultivated land during 1975-76 wholly without irrigation. For the sample households of category 1, that is the households which cultivated land during 1975-76 with (or usually using) irrigation, particulars on irrigation, crops grown, use of fertiliser, manure and pesticides etc. were collected in Schedule 22.1. For the sample households of category 2, that is the sample households which cultivated land without irrigation during 1975-76, particulars of unirrigated holding were collected in Schedule 22.2. For the households of category 3, no schedule was canvassed.

1.7 The results presented in Tables 0, 1, 2 and 3 are based on the data collected in Schedule 22.2 in the general sample of villages of the central sample in the different States, Union Territories and all India. Information on area possessed, net area sown, area cropped more than once, area under different crops, feasibility of irrigation etc. relating to the holdings of the cultivator, households which cultivated land wholly without irrigation are presented in different tables. Estimates on some of these items of information for the different States, Union Territories and all India are presented in a summarised form in table B.

1. Two tehsils of district Surgulja & four tehsils of district Bastar of Madhya Pradesh; three tehsils of district Chandrapur & one tehsil of district Amravati of Maharashtra and Ladakh district of Jammu & Kashmir were also not covered.

2. A detailed note on important concepts and definitions adopted in the survey as well as on sample design and estimation procedure has already been given in Sarvekshana, Vol. VIII, No. 2, October 1984.

TABLE B : ESTIMATES OF CULTIVATOR HOUSEHOLDS NOT USING IRRIGATION, AREA POSSESSED, NET AREA SOWN, AREA UNDER CROP, AREA UNDER NON-AGRICULTURAL USE AND AREA NEEDING NO IRRIGATION, BY STATES

state/ union territory	number of households (00) not using irri- gation	area (00 hectares)				
		area possessed	net area sown	area under crop	area under non-agri- cultural use	area needing no irri- gation
1	2	3	4	5	6	7
Andhra Pradesh	13258	29734	26511	28416	1227	315
Assam	19228	23697	21286	28088	1887	5296
Bihar	37487	34699	32444	43310	1094	1348
Gujarat	13485	41563	39623	40350	1106	1830
Haryana	1323	4266	4154	5270	30	138
Himachal Pradesh	3842	4857	3504	6114	1231	85
Jammu & Kashmir	2450	3002	2286	2905	691	98
Karnataka	17150	47456	43327	44555	2334	2042
Kerala	17900	7172	6452	7718	542	2907
Madhya Pradesh	37428	104547	95833	106324	3951	1422
Maharashtra	27575	82995	69750	72757	7513	1069
Manipur	1148	1292	1177	1264	113	327
Orissa	19610	26907	25590	27113	717	196
Punjab	513	1158	1054	1611	51	15
Rajasthan	17181	92921	79505	85457	4499	407
Tamil Nadu	12149	10405	9571	10295	327	807
Tripura	1680	1322	1085	1596	161	138
Uttar Pradesh	19777	28894	26628	33737	970	998
West Bengal	22763	17006	15313	20103	1240	988
Delhi	56	69	64	105	1	7
Goa, Daman & Diu	399	202	189	199	7	23
Pondicherry	76	20	19	19	1	3
All India	286478	564184	505365	567306	29693	20459

PART II

SURVEY RESULTS

**SOME SELECTED IMPORTANT
RESULTS OF THE SURVEY
ON USE OF IRRIGATION IN
HOUSEHOLD HOLDINGS**

*National Sample Survey :
31st Round (July 1976—June 1977)*

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Tables 1 to 19 relate to households usually using irrigation.

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF HOUSEHOLDS SURVEYED FOR SCHEDULE 22.1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATOR HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION.

GENERAL SAMPLE		GUJARAT
item	(0)	number (1)
1. number of sample villages allotted for survey		312
2. number of sample villages actually surveyed		312
3. number of sample households surveyed for Schedule 22.1		3184
4. estimated number of total households (00) ^a		35014
5. estimated number of cultivating households (00)		24070
(i) usually using irrigation		10585
(ii) usually not using irrigation ^b		13485

^a from listing Schedule—Draft Report No. 291, Part-I.

^b from Schedule 22.2—Draft Report No. 312.

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION FACILITY BY SIZE CLASS OF HOLDING.

GENERAL SAMPLE		GUJARAT											
size class of holding (hectare)	no. of households (00) with irrig- able land	irrigable area (hectares 00)						land without irrigation facility (hectares 00)					
		area possessed			net area sown	area cropped more than once	gross cropped area	area possessed			net area sown	area cropped more than once	gross crop- ped area
		owned	leased in	total				owned	leased in	total			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
less than 0.5	943	277	2	279	275	177	454	30	2	32	23	2	25
0.5—1.0	1388	830	6	836	819	494	1326	211	5	216	193	19	220
1.0—2.0	2436	2493	5	2498	2445	1202	3676	1087	13	1100	1021	36	1070
2.0—4.0	2845	4921	86	5007	4880	1746	6685	3105	32	3137	2979	80	3097
4.0—10.0	2481	7114	63	7177	6948	1642	8629	8302	49	8351	8035	222	8361
10.0 & above	492	2110	10	2120	2083	415	2514	4444	36	4480	4365	125	4546
all	10585	17745	172	17917	17450	5676	23284	17179	137	17316	16616	484	17319

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION

GENERAL SAMPLE

GUJARAT

size class of holding (hectare)	flow					lift					flow & lift comb- ined	
	canal	diver- sion scheme	tank	others	all	well	tube well	river	tank	others		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
number of households (00) reporting area irrigated												
less than 0.5	196	9	—	—	205	565	110	6	7	—	688	872
0.5-1.0	174	—	—	3	177	970	173	9	13	3	1168	1314
1.0-2.0	296	17	—	3	316	1771	221	37	24	3	2056	2317
2.0-4.0	280	17	3	3	303	2200	214	36	31	12	2493	2732
4.0-10.0	161	52	—	—	213	2118	89	16	20	5	2248	2404
10.0 & above	23	10	3	—	36	413	6	23	3	—	445	470
all	1130	105	6	9	1250	8037	813	127	98	23	9098	10109
net area irrigated (heactares 00)												
less than 0.5	50	—	—	—	50	161	36	—	4	—	201	251
0.5-1.0	89	—	—	—	89	457	104	2	9	2	574	663
1.0-2.0	241	18	—	5	264	1284	207	19	34	5	1549	1813
2.0-4.0	444	46	7	2	499	2308	256	23	47	17	2651	3150
4.0-10.0	408	108	—	—	516	3305	153	8	51	7	3524	4040
10.0 & above	81	58	5	—	144	915	6	53	3	—	977	1121
all	1313	230	12	7	1562	8430	762	105	148	31	9476	11038

TABLE 3: ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOLDING AND BY SOURCE OF POWER.

GENERAL SAMPLE

GUJARAT

size class of holding (hectare)	no. of households(00) reporting lift irrigation using						net area irrigated (hectares 00) by lift using					
	electri- city	diesel	wind- mill	animal	human	all	electri- city	diesel	wind- mill	animal	human	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
less than 0.5	490	137	—	58	3	688	142	45	—	13	1	201
0.5-1.0	504	341	3	309	11	1168	282	174	2	114	2	574
1.0-2.0	713	869	—	445	29	2056	670	646	—	228	5	1549
2.0-4.0	809	1347	—	324	13	2493	1014	1443	—	191	3	2651
4.0-10.0	464	1640	—	138	6	2248	957	2423	—	143	1	3524
10.0 & above	46	375	—	24	—	445	191	762	—	24	—	977
all	3026	4709	3	1298	62	9098	3256	5493	2	713	12	9476

TABLE 4 : ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF THE SOURCE OF WATER FOR IRRIGATION

GENERAL SAMPLE												GUJARAT	
ownership of source of water for irrigation	net area irrigated (hectares 00) by type of irrigation												
	flow					lift						flow and lift combined	
	canal	diversion scheme	tank	others	all	well	tube-weli	river	tank	others	all		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
government	1313	230	—	5	1548	12	62	50	144	31	299	1847	
co-operative	—	—	—	—	—	4	7	24	—	—	35	35	
private-joint	—	—	6	2	8	2647	509	9	4	—	3169	3177	
private-single	—	—	6	—	6	5767	184	22	—	—	5973	5979	
all	1313	230	12	7	1562	8430	762	105	148	31	9476	11038	

TABLE 5 : ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND SOURCE OF POWER

GENERAL SAMPLE							GUJARAT	
ownership of lifting equipment	net area irrigated (hectares 00) by source of power							
	electricity	diesel	windmill	animal drawn	human drawn	all		
(0)	(1)	(2)	(3)	(4)	(5)	(6)		
government	77	16	—	—	—	93		
co-operative	28	60	1	—	—	89		
private-joint	1174	1931	—	184	3	3292		
private-single	1977	3486	1	529	9	6002		
all	3256	5493	2	713	12	9476		

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION FACILITY BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASON FOR NOT IRRIGATION.

GENERAL SAMPLE

GUJARAT

size class of holding (hectare)	area (hectares 00) by reason for not irrigating			
	adequate rainfall (1)	non-availability of water (2)	other reasons (3)	all reasons (4)
less than 0.5	3	12	10	25
0.5-1.0	48	54	62	164
1.0-2.0	85	251	301	637
2.0-4.0	164	897	690	1751
4.0-10.0	101	2096	691	2888
10.0 & above	78	690	179	947
all	479	4000	1933	6412

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF THE PLOTS, NET AREA IRRIGATED, NET AREA NOT IRRIGATED AND NET AREA SOWN BY SIZE CLASS OF PARCELS.

GENERAL SAMPLE

GUJARAT

size class of parcels (hectare)	area (hectares 00)				
	number of parcels (00) (1)	total irrigable land (2)	net area irrigated (3)	net area not irrigated (4)	net area sown (5)
less than 0.05	191	6	4	1	5
0.05-0.1	620	44	34	7	41
0.1-0.2	1281	180	135	38	173
0.2-0.3	1925	451	368	73	441
0.3-0.4	1590	541	396	133	529
0.4-0.5	2400	1056	854	193	1047
0.5-1.0	4918	3580	2648	845	3493
1.0-2.0	3291	4579	3041	1369	4410
2.0 & above	2196	7480	3558	3753	7311
all	18412	17917	11038	6412	17450

Parcel : A plot or contiguously located plots having a common source of irrigation facility possessed by the household was treated as a parcel.

TABLE 8 : ESTIMATES OF AREA UNDER CROP, APPLIED WITH FERTILISER, APPLIED WITH MANURE, AFFECTED BY PESTS AND DISEASES, SPRAYED WITH PESTICIDES AND OF CROPS FINALLY DAMAGED AND VALUE OF FERTILISER USED, MANURE USED AND PESTICIDES SPRAYED SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE											GUJARAT
crop/crop group	area (hectares 00)						value (Rs.000) of				
	under crop	applied with ferti-liser	applied with manure	affected by pests & dis-eases	sprayed with pesti-cides	of crop finally damaged	fertiliser used	manure used	pesti-cides sprayed		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
<i>Irrigated crops</i>											
paddy	1052	966	785	165	88	77	27150	15423	337		
jowar	217	120	121	32	21	4	2640	1987	243		
bajra	571	385	355	151	19	14	8232	7589	217		
wheat	4245	3549	1575	753	196	20	93559	24712	906		
all cereal	6442	5268	2991	1133	350	115	139137	52439	1984		
all pulses	95	46	36	3	—	—	1054	585	15		
all oil seeds	860	580	435	267	62	1	9622	7328	257		
cotton	2730	2267	2319	949	721	80	62863	37522	23741		
all other	2082	1659	1087	316	60	33	68780	42247	718		
all crops	12209	9820	6868	2668	1193	229	281456	140121	26715		
<i>unirrigated crops</i>											
paddy	1045	313	576	61	14	2	6065	9143	172		
jowar	3495	554	1645	835	139	80	8112	18954	638		
bajra	6224	1072	3559	3323	134	45	16287	54418	582		
wheat	273	8	20	6	3	—	241	476	15		
all cereals	12649	2167	6627	4391	307	127	34688	95097	1521		
all pulses	1369	67	288	102	8	—	3438	3556	157		
all oil seeds	10448	4694	6298	2546	725	21	77487	67441	2254		
cotton	2790	814	1192	1166	475	59	14512	12361	11354		
all other crops	1139	259	389	115	12	1	5949	10096	391		
all crops	28395	8001	14794	8320	1527	208	136074	188551	15677		

TABLE 9 : ESTIMATES OF AREA UNDER CROP, AREA APPLIED WITH FERTILISER AND MANURE AND AREA AFFECTED BY PESTS AND DISEASES FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETY OF SEEDS.

GENERAL SAMPLE		GUJARAT							
crop/crop group	irrigated crop area (hectares 00)				unirrigated crop area (hectares 00)				
	total	applied with ferti- liser	applied with manure	affected by pests & diseases	total	applied with ferti- liser	applied with manure	affected by pests & diseases	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
<i>ordinary variety</i>									
paddy	729	669	569	97	1017	296	564	58	
jowar	199	106	111	27	3439	536	1609	819	
bajra	317	176	182	80	4037	547	2113	1873	
wheat	3193	2631	1281	559	272	8	19	6	
all cereals	4737	3774	2284	775	10353	1586	5124	2905	
all pulses	95	46	36	3	1369	67	288	102	
all oilseeds	833	563	423	265	10421	4692	6288	2537	
cotton	895	579	746	416	2166	520	966	780	
all other crops	1332	1164	664	267	1121	244	380	105	
all crops	7892	6126	4153	1726	25430	7109	13046	6429	
<i>improved variety</i>									
paddy	323	297	216	68	28	17	12	3	
jowar	18	14	10	5	56	18	36	16	
bajra	254	209	173	71	2187	525	1446	1450	
wheat	1052	918	294	194	1	—	1	—	
all cereals	1705	1494	707	358	2296	581	1503	1486	
all pulses	—	—	—	—	—	—	—	—	
all oilseeds	27	17	12	2	27	2	10	9	
cotton	1835	1688	1573	533	624	29	226	386	
all other crops	750	495	423	49	18	15	9	10	
all crops	4317	3694	2715	942	2965	892	1748	1891	

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILIZER HAVING NUTRIENTS N ONLY, NP ONLY, NPK ONLY AND OTHERS SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP

GENERAL SAMPLE

GUJARAT

crop/crop group	irrigated crop area (hectares 00) applied with fertilisers having nutrients					unirrigated crop area (hectares 00) applied with fertilisers having nutrients				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
paddy	829	85	1	51	966	294	16	2	1	313
jowar	94	26	—	—	120	238	229	4	83	554
bajra	275	84	3	23	385	590	291	8	183	1072
wheat	2349	821	88	291	3549	8	—	—	—	8
all cereals	3700	1103	92	373	5268	1330	551	14	272	2167
all pulses	42	3	1	—	46	62	2	—	3	67
all oilseeds	370	130	—	80	580	551	3204	249	690	4694
cotton	1516	492	43	216	2267	450	342	9	13	814
all other crops	1348	157	40	114	1659	189	49	6	15	259
all crops	6976	1885	176	783	9820	2582	4148	278	993	8001

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate ammonium chloride and urea.

'NP' only means nitrogenous phosphate fertilisers like ammonium phosphate, ammonium phosphate sulphate, diammonium phosphate, urea ammonium phosphate and ammonium nitrate phosphate. It also includes phosphate fertilisers like single super phosphate, triple super phosphate and palfos in combination with nitrogenous fertilisers containing 'N' only.

'NPK' means nitrogenous phosphatic potash fertilisers like nitrophosphate and NPK complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NP' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND TYPE OF IRRIGATION

GENERAL SAMPLE

GUJARAT

crop/crop group	area (hectares 00) under irrigated crop by type of irrigation											
	flow					lift					flow and lift combined	
(0)	canal	diversion scheme	tank	others	total	well	tube-well	river	tank	others		total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
paddy	434	233	—	—	667	232	147	3	—	3	385	1052
jowar	41	—	—	—	41	131	2	28	12	3	176	217
bajra	13	—	1	—	14	490	31	4	32	—	557	571
wheat	419	4	10	3	436	3278	412	26	78	15	3809	4245
all cereals	929	237	11	3	1180	4445	595	68	132	22	5262	6442
all pulses	15	—	—	—	15	69	2	2	—	7	80	195
all oilseeds	148	—	—	—	148	608	78	121	14	—	712	860
cotton	333	—	—	3	336	2324	55	10	3	2	2394	2730
all other crops	327	—	2	4	333	1522	210	16	—	1	1749	2082
all crops	1752	237	13	10	2012	8968	940	108	149	32	10197	12209

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND NUMBER OF TIMES IRRIGATED

GENERAL SAMPLE		GUJARAT				
crop/crop group	crop area (hectares 00) irrigated					total
	once	twice	thrice	more than thrice	not recorded	
(0)	(1)	(2)	(3)	(4)	(5)	(6)
paddy	84	205	211	534	18	1052
jowar	34	95	35	50	3	217
bajra	56	119	81	300	15	571
wheat	11	74	214	3934	12	4245
all cereals	190	542	568	5091	51	6442
all pulses	3	29	18	30	15	95
all oilseeds	72	136	139	496	17	860
cotton	98	167	174	2272	19	2730
all other crops	72	50	176	1755	29	2082
all crops	435	924	1075	9644	131	12209

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROP WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUP

GENERAL SAMPLE		GUJARAT		
crop/crop group	area (hectares 00) under irrigated crop *			total
	with subsidiary irrigation	without subsidiary irrigation		
(0)	(1)	(2)	(3)	
paddy	3	1049		1052
jowar	—	217		217
bajra	4	567		571
wheat	8	4237		4245
all cereals	15	6427		6442
all pulses	3	92		95
all oilseeds	16	844		860
cotton	72	2658		2730
all other crops	8	2074		2082
all crops	114	12095		12209

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES—3 YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOLDINGS

GENERAL SAMPLE

GUJARAT

items of assets	value (Rs. 000) of agricultural implements, irrigation equipments and draught animals by size class of holding (hectare)							all
	less than 0.5	0.5—1.0	1.0—2.0	2.0—4.0	4.0—10.0	10.0 & above	(0)	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
agricultural implements								
1. tractor	—	10500	19540	48685	105494	51513	235732	
2. power tiller	—	—	—	—	2721	7561	10282	
3. sprayer	—	35	1088	7524	5961	2143	16751	
4. duster	—	—	166	834	1064	464	2528	
5. thresher	—	—	1925	—	4700	3252	9877	
6. cane crusher	—	—	—	1003	—	—	1003	
7. oil crusher	—	—	1155	—	—	—	1155	
8. all	—	10535	23874	58046	119940	64933	277328	
irrigation equipments								
1. electric pumps	3500	21798	65412	114276	144305	24072	373363	
2. diesel pumps	7185	32716	134297	302354	506522	161245	1144319	
3. wind-mill	—	—	—	—	66	—	66	
4. moat	376	2574	6384	6250	4714	1316	21614	
5. persian wheel	267	1180	357	2304	651	—	4759	
6. others (animal driven)	—	154	177	260	—	—	591	
7. counter poise	—	27	178	34	68	—	307	
8. manual pumps	—	—	173	1092	462	320	2047	
9. others	221	354	832	993	152	—	2552	
10. all	11549	58803	207810	427563	656940	186953	1549618	
draught animals								
1. cattles	24709	104113	274237	485436	611726	172737	1672958	
2. buffaloes	595	2540	13890	7589	8590	—	33204	
3. all	25304	106653	288127	493025	620316	172737	17061162	
total	36853	175991	519811	978634	1397196	424623	3533108	

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND NUMBER OF PUMPSETS POSSESSED BY SIZE CLASS OF HOUSEHOLD HOLDING.

GENERAL SAMPLE

GUJARAT

size class of holding (hectare)	no. of households reporting pumpsets (00)	no. of pumpsets* (00)
(0)	(1)	(2)
less than 0.5	60	60
0.5—1.0	224	227
1.0—2.0	749	777
2.0—4.0	1271	1366
4.0—10.0	1834	1998
10.0 & above	430	505
all	4568	4933

*In this and subsequent tables on number of pumpsets, the number includes those possessed jointly as well as on rent. In the case of jointly possessed instead of the household's share of number possessed, the total number possesses jointly has been counted possessed by the sample household. Hence, the estimated number of pumpsets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE OF POWER AND HORSE POWER

horse power	no. of pumpsets* (00) having source of power			
	electricity	diesel	both electricity and diesel	total
	(1)	(2)	(3)	(4)
(0)				
less than 1.0	3	4	—	7
1.0—2.0	4	3	—	7
2.0—3.0	39	113	—	152
3.0—4.0	95	25	—	120
4.0—5.0	19	29	—	48
5.0 & above	699	3739	3	4441
not recorded	95	63	—	158
all	954	3976	3	4933

*see foot-note on table 15

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS* AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER

source of power	possession type							
	owned singly		owned jointly		rented		total	
	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
electricity	461	268777	395	161383	98	—	954	430160
diesel	2399	915918	1559	359677	18	—	3976	1275595
both electricity & diesel	3	1155	—	—	—	—	3	1155
total	2863	1185850	1954	521060	116	—	4933	1706910

*see foot-note on table 15

TABLE 18 : ESTIMATES OF NUMBER OF PUMPSETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE

GENERAL SAMPLE

GUJARAT

no. of pumpsets (00) reporting area irrigated by source of water						
source of power	well	tube-well	rivers & streams	others	not recorded	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)
owned singly						
1. electricity	454	7	—	—	—	461
2. diesel	2366	3	10	20	—	2399
3. both electricity & diesel	3	—	—	—	—	3
4. all	2823	10	10	20	—	2863
owned jointly						
1. electricity	345	39	11	—	—	395
2. diesel	1534	18	3	4	—	1559
3. both electricity & diesel	—	—	—	—	—	—
4. all	1879	57	14	4	—	1954
rented						
1. electricity	91	7	—	—	—	98
2. diesel	18	—	—	—	—	18
3. both electricity & diesel	—	—	—	—	—	—
4. all	109	7	—	—	—	116
total						
1. electricity	890	53	11	—	—	954
2. diesel	3918	21	13	24	—	3976
3. both electricity & diesel	3	—	—	—	—	3
4. all	4811	74	24	24	—	4933

*see foot note on table 15

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEMS OF EXPENDITURE

GENERAL SAMPLE

GUJARAT

items of expenditure	amount (Rs. 000)
(0)	(1)
1. repair and maintenance expenses of bunds and field channels	26365
2. water charges	143325
3. other expenses on independently owned lift irrigation	302533
4. share of expenses on joint arrangements	137827
5. receipt from sale of water	(-)-68611
6. total	541439

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF HOUSEHOLDS SURVEYED FOR SCHEDULE 22.1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATING HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION.

GENERAL SAMPLE		HARYANA
item		number
(0)		(1)
1. number of sample villages allotted for survey		144
2. number of sample villages actually surveyed		144
3. number of sample households surveyed for Schedule 22.1		1660
4. estimated number of total households ^a (00)		14082
5. estimated number of cultivating households (00)		9104
(i) usually using irrigation		7781
(ii) usually not using irrigation ^b		1323

a from listing Schedule—Draft Report No. 291, Part—I.

b from Schedule 22.2—Draft Report No. 312.

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION FACILITY BY SIZE CLASS OF HOLDING

GENERAL SAMPLE		HARYANA											
size class of holding (hectare)	number of households (00) with irrigable land	irrigable area (hectares 00)						area of land without irrigation facility (hectares 00)					
		area possessed			net area sown	area cropped more than once	gross cropped area	area possessed			net area sown	area cropped more than once	gross cropped area
		owned	leased -in	total				owned	leased -in	total			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
less than 0.5	338	80	13	93	93	68	161	5	—	5	2	1	3
0.5—1.0	508	249	41	290	290	190	481	21	5	26	19	10	29
1.0—2.0	1377	1161	288	1449	1423	968	2391	258	47	305	272	135	407
2.0—4.0	2546	3863	818	4681	4608	2545	7153	1206	275	1481	1332	551	1883
4.0—10.0	2450	8361	528	8889	8727	4178	12905	2865	734	3599	3261	873	4134
10.0 & above	562	4121	312	4433	4253	1668	5921	2562	305	2867	2622	593	3215
all	7781	17835	2000	19835	19394	9617	29012	6917	1366	8283	7508	2163	9671

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION.

GENERAL SAMPLE

HARYANA

size class of holding (hectare)	f l o w					l i f t					flow & lift com- bined	
	canal	diver- sion scheme	tank	others	all	well	tube well	river	tank	others		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
number of households (00) reporting area irrigated												
less than 0.5	161	—	—	3	164	7	113	—	—	3	123	287
0.5—1.0	201	—	—	—	201	23	208	—	—	—	231	432
1.0—2.0	589	—	—	—	589	93	615	—	3	3	714	1303
2.0—4.0	1262	—	—	15	1277	113	1062	—	—	22	1197	2474
4.0—10.0	1237	—	—	6	1243	113	1103	—	—	50	1266	2509
10.0 & above	277	—	—	3	280	3	260	—	—	—	263	543
all	3727	—	—	27	3754	352	3361	—	3	78	3794	7548
net area irrigated (hectares 00)												
less than 0.5	46	—	—	1	47	3	34	—	—	1	38	85
0.5—1.0	119	—	—	—	119	14	138	—	—	—	152	271
1.0—2.0	579	—	—	—	579	101	644	—	2	2	749	1328
2.0—4.0	1805	—	—	23	1828	148	1816	—	—	35	1999	3827
4.0—10.0	3278	—	—	32	3310	204	3654	—	—	96	3954	7264
10.0 & above	1420	—	—	3	1423	13	1773	—	—	—	1786	3209
all	7247	—	—	59	7306	483	8059	—	2	134	8678	15984

TABLE 3 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOLDING AND BY SOURCE OF POWER

GENERAL SAMPLE

HARYANA

size class of holding (hectare)	no. of households (00) reporting lift irrigation using						net area irrigated (hectares 00) by lift using					
	elec- tri- city	diesel	wind mill	animal	human	all	elec- tri- city	diesel	wind m mill	animal	human	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
less than 0.5	74	43	—	6	—	123	25	11	—	2	—	38
0.5—1.0	156	60	—	15	—	231	103	38	—	11	—	152
1.0—2.0	436	197	—	81	—	714	408	250	—	91	—	749
2.0—4.0	719	371	—	107	—	1197	1199	671	—	129	—	1999
4.0—10.0	694	437	—	135	—	1266	2257	1449	—	248	—	3954
10.0 & above	168	77	—	18	—	263	1243	525	—	18	—	1786
all	2247	1185	—	362	—	3794	5235	2944	—	499	—	8678

TABLE 4 : ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF THE SOURCE OF WATER FOR IRRIGATION

GENERAL SAMPLE		HARYANA										
ownership of source of water for irrigation		net area irrigated (hectares 00) by type of irrigation										
		flow					lift					flow and lift com- bined
		canal	diver- sion sche- me	tank	others	all	well	tube- well	river	tank	others	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
government	7247	—	—	10	7257	—	178	—	—	10	188	7445
co-operative	—	—	—	—	—	—	1	—	—	—	1	1
private-joint	—	—	—	1	1	241	2243	—	2	95	2581	2582
private-single	—	—	—	48	48	242	5637	—	—	29	5908	5956
all	7247	—	—	59	7306	483	8059	—	2	134	8678	15984

TABLE 5 : ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND BY SOURCE OF POWER

GENERAL SAMPLE		HARYANA					
ownership of lifting equipment		net area irrigated (hectares 00) by source of power					
		electricity	diesel	windmill	animal drawn	human drawn	all
		(1)	(2)	(3)	(4)	(5)	(6)
government	176	—	—	—	—	176	
co-operative	1	54	—	—	—	55	
private-joint	1576	1027	—	279	—	2882	
private-single	3482	1863	—	220	—	5565	
all	5235	2944	—	499	—	8678	

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION FACILITY BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASON FOR NOT IRRIGATION

GENERAL SAMPLE

HARYANA

size class of holding (hectare)	area (hectares 00) by reason for not irrigating			
	adequate rainfall	non-availability of water	other reasons	all reasons
(0)	(1)	(2)	(3)	(4)
less than 0.5	—	3	6	9
0.5 — 1.0	5	2	7	14
1.0 — 2.0	41	77	94	212
2.0 — 4.0	148	344	226	718
4.0 — 10.0	255	835	361	1451
10.0 & above	215	680	111	1006
a l l	664	1941	805	3410

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF THE PLOTS, NET AREA IRRIGATED, NET AREA NOT IRRIGATED AND NET AREA SOWN BY SIZE CLASS OF PARCELS

GENERAL SAMPLE

HARYANA

size class of parcels (hectares)	number of parcels (00)	area (hectares 00)			net area sown
		total irrigable land	net area irrigated	net area not irrigated	
(0)	(1)	(2)	(3)	(4)	(5)
less than 0.05	8	—	—	—	—
0.05—0.1	44	3	3	1	4
0.1—0.2	170	22	18	4	22
0.2—0.3	574	122	109	11	120
0.3—0.4	289	90	67	19	86
0.4—0.5	1439	585	499	74	573
0.5—1.0	2718	1968	1638	291	1929
1.0—2.0	3283	4433	3706	677	4383
2.0 & above	3377	12612	9944	2333	12277
a l l	11902	19835	15984	3410	19394

Parcel: —A plot or contiguously located plots having a common source of irrigation facility possessed by the household was treated as a parcel.

TABLE 8 : ESTIMATES OF AREA (I) UNDER CROP (II) APPLIED WITH FERTILISER (III) APPLIED WITH MANURE, (IV) AFFECTED BY PESTS AND DISEASES (V) SPRAYED WITH PESTICIDES AND (VI) OF CROPS FINALLY DAMAGED AND VALUE OF (I) FERTILISER USED, (II) MANURE USED AND (III) PESTICIDES SPRAYED SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE		HARYANA								
crop/crop group	area (hectares 00)						value (Rs. 000) of			
	under crop	applied with fertiliser	applied with manure	affected by pests & diseases	sprayed with pesticides	of crops finally damaged	fertiliser used	manure used	pesticides sprayed	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
irrigated crops										
paddy	1997	1690	435	423	298	19	59484	3156	1744	
bajra	829	164	54	260	—	—	2032	766	—	
wheat	9015	6738	1405	480	104	—	180600	18590	601	
all cereals	13058	8985	2072	1207	402	19	248961	24999	2345	
all pulses	1815	28	56	334	11	3	661	726	48	
all oilseeds	307	88	28	163	60	18	1603	208	419	
sugar cane	1446	1070	702	328	149	1	40410	18335	1022	
cotton	1746	829	323	1224	829	13	17978	6681	9565	
other crop	2052	548	331	127	7	—	17070	9282	1360	
commodities										
all other crops	103	80	11	38	37	—	2943	238	429	
all crops	20527	11628	3523	3421	1495	54	329626	60469	15188	
unirrigated crops										
paddy	186	99	9	8	—	—	2082	76	—	
bajra	6176	108	285	2725	7	3	1193	3718	24	
wheat	728	131	46	8	—	—	2334	449	—	
all cereals	9039	589	611	2792	20	3	10827	8299	57	
all pulses	5813	5	117	1354	—	—	461	632	—	
all oilseeds	389	44	15	115	2	2	677	262	10	
sugar cane	47	19	17	1	—	—	590	349	—	
cotton	37	6	—	6	3	—	16	—	22	
other crop commodities	2828	57	94	167	—	—	1538	776	—	
all other crops	3	—	—	—	—	—	1	2	—	
all crops	18156	720	854	4435	25	5	14110	10320	89	

TABLE 9 : ESTIMATES OF AREA UNDER CROP, AREA APPLIED WITH FERTILISER AND MANURE AND AREA AFFECTED BY PESTS AND DISEASES FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETY OF SEEDS.

GENERAL SAMPLE

HARYANA

crop/crop group	irrigated crop area (hectares 00)				unirrigated crop area (hectares 00)			
	total	applied with fertiliser	applied with manure	affected by pests & disease	total	applied with fertiliser	applied with manure	affected by pests & diseases
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ordinary variety								
paddy	1076	825	383	245	150	82	9	6
bajra	699	113	52	196	5780	73	259	2493
wheat	3583	2326	862	210	552	93	33	7
all cereals	6565	3647	1475	689	8402	476	562	2557
all pulses	1808	28	56	334	5811	5	117	1354
all oilseeds	268	82	24	139	379	36	13	108
sugarcane	693	468	399	81	29	6	14	—
cotton	816	178	103	406	37	6	—	6
other crop commodities	2022	528	316	125	2797	33	94	167
all other crops	103	80	11	38	3	—	—	—
all crops	12275	9011	2384	1812	17458	562	800	4192
improved variety								
paddy	921	865	52	178	36	17	—	2
bajra	130	51	2	64	396	35	26	232
wheat	5432	4412	543	270	176	38	13	1
all cereals	6493	5338	597	518	637	113	49	2
all pulses	7	—	—	—	2	—	—	—
all oilseeds	39	6	4	24	10	8	2	7
sugarcane	753	602	303	247	18	13	3	1
cotton	930	651	220	818	—	—	—	—
other crop commodities	30	20	15	2	31	24	—	—
all other crops	—	—	—	—	—	—	—	—
all crops	8252	6617	1139	1609	698	158	54	243

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISERS HAVING NUTRIENTS N ONLY, NP ONLY, NPK ONLY AND OTHERS SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE

HARYANA

crop/crop group	irrigated crop area (hectres 00) with fertilisers having nutrients					unirrigated crop area (hectares 00) applied with fertilisers having nutrients				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
paddy	1488	115	40	55	1690	99	—	—	—	99
bajra	103	—	—	61	164	53	47	6	2	108
wheat	4299	1709	417	313	6738	95	24	12	—	131
all cereals	6142	1936	461	446	8985	478	91	18	2	589
all pulses	19	9	—	—	28	2	—	3	—	5
all oilseeds	86	2	—	—	88	41	2	—	1	44
sugarcane	775	149	80	66	1070	16	—	3	—	19
cotton	821	6	—	2	829	6	—	—	—	6
other crop commodities	445	12	13	78	548	23	3	26	—	57
all other crops	67	10	2	1	80	—	—	—	—	—
all crops	8355	2124	556	593	11628	571	96	50	3	720

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate, ammonium and urea.

'NP' only means nitrogenous phosphate fertilisers like ammonium phosphate, ammonium phosphate sulphate, diammonium phosphate, urea ammonium phosphate and ammonium nitrate phosphate. It also includes phosphate fertilisers like single super phosphate, triple super phosphate and p-fos in combination with nitrogenous fertilisers containing 'N' only.

'NPK' means nitrogenous phosphatic potash fertilisers like nitro phosphate and NPK complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NP' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND TYPE OF IRRIGATION

GENERAL SAMPLE

HARYANA

crop /crop group	area (hectares 00) under irrigated crop by type of irrigation											
	flow					lift					flow and lift combined	
(0)	canal	diversion scheme	tank	others	total	well	tube-well	river	tank	others		total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
paddy	478	—	—	32	510	19	1462	—	—	6	1487	1997
bajra	590	—	—	7	597	14	212	—	—	6	232	829
wheat	3174	—	—	23	3197	327	5463	—	—	28	5818	9015
all cereals	4523	—	—	62	4585	468	7958	—	—	47	8473	13058
all pulses	1445	—	—	—	1445	21	331	—	—	18	370	1815
all oilseeds	131	—	—	—	131	6	157	—	—	13	176	307
sugarcane	642	—	—	2	644	24	772	—	—	6	802	1446
cotton	1300	—	—	—	1300	2	442	—	—	2	446	1746
other crop commodities	995	—	—	1	996	43	1012	—	—	1	1056	2052
all other crops	5	—	—	—	5	—	98	—	—	—	98	103
all crops	9041	—	—	65	9106	564	10770	—	—	87	11421	20527

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROP BY CROP/CROP GROUP AND NUMBER OF TIMES IRRIGATED

GENERAL SAMPLE HARYANA

crop/crop group	crop area (hectares 00) irrigated					total
	once	twice	thrice	more than thrice	not recorded	
	(1)	(2)	(3)	(4)	(5)	
paddy	115	202	221	1453	6	1997
bajra	574	162	62	27	4	829
wheat	375	815	1769	6039	17	9015
all cereals	1473	1448	2262	7842	33	13058
all pulses	1390	296	38	63	28	1815
all oilseeds	110	118	47	30	2	307
sugarcane	69	115	163	1094	5	1446
cotton	122	323	493	805	3	1746
other crop commodities	588	354	235	863	12	2052
all other crops	1	3	1	98	—	103
all crops	3753	2657	3239	10795	83	20527

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROPS WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUP

GENERAL SAMPLE HARYANA

crop/crop group	area (hectares 00) under irrigated crops		
	with subsidiary irrigation	without subsidiary irrigation	total
	(1)	(2)	(3)
paddy	242	1755	1997
bajra	26	803	829
wheat	863	8152	9015
all cereals	1179	11879	13058
all pulses	14	1801	1815
all oilseeds	20	287	307
sugarcane	6	1387	1446
cotton	269	1477	1746
other crop commodities	191	1861	2052
all other crops	14	89	103
all crops	1746	18781	20527

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES—3 YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOLDING

GENERAL SAMPLE		HARYANA						
		value (Rs.000) of agricultural implements, irrigation equipments and draught animals by size class of holding (hectare)						
items of assets		less than 0.5	0.5—1.0	1.0—2.0	2.0—4.0	4.0—10.0	10.0 & above	all
(0)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
agricultural implements								
1. tractor		—	—	—	7259	277864	476254	761377
2. Power tiller		—	—	—	1044	3207	7561	11812
3. sprayer		—	—	—	17	1186	402	1605
4. duster		—	—	—	—	369	—	369
5. thresher		—	213	1764	3026	23945	18496	47444
6. cane crusher		—	—	118	325	5144	2171	7758
7. oil crusher		—	—	—	—	—	—	—
8. all		—	213	1882	11671	311715	504884	830365
irrigation equipments								
1. electric pumps		3060	12516	43155	159391	329531	134393	682046
2. diesel pumps		—	6005	38739	107910	210094	71739	434487
3. wind-mill		—	—	—	17	16	—	33
4. moat		—	—	52	—	99	—	151
5. persian wheel		10	124	6225	8756	18039	2682	35836
6. others (animal-driven)		99	376	1846	3343	1717	199	7580
7. counter poise		—	—	—	—	—	—	—
8. manual pumps		—	—	—	—	—	—	—
9. others		—	—	—	—	—	—	—
10. all		3169	19021	90017	279417	559496	209013	1160133
draught animals								
1. cattles		2564	13870	102508	301840	345279	84844	850905
2. buffaloes		—	448	1281	3999	10027	6033	21788
3. all		2564	14318	103789	305839	355306	90877	872693
total		5733	33552	195688	596927	1226517	804774	2863191

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND*NUMBER OF PUMPSETS POSSESSED BY SIZE CLASS OF HOUSEHOLD HOLDING.

GENERAL SAMPLE		HARYANA	
size class of holding (hectare)		no. of households reporting pumpsets (00)	no. of pumpsets* (00)
(0)		(1)	(2)
less than 0.5			
0.5— 1.0		32	32
1.0— 2.0		99	99
2.0— 4.0		347	371
4.0—10.0		728	795
10.0 & above		996	12221
all		237	396
		2439	2914

*In this and subsequent tables on number of pumpsets, the number includes those possessed, jointly as well as on rent. In the case of jointly possessed, instead of the household share of the number possessed, the total number possessed jointly has been counted as possessed by the sample household. Hence the estimated number of pumpsets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE OF POWER AND BY HORSE POWER.

GENERAL SAMPLE		HARYANA			
horse power	no of pumpsets* (00) having source of power				
	electricity	diesel	both electricity & diesel	total	
(0)	(1)	(2)	(3)	(4)	
less than 1.0	—	—	—	—	
1.0—2.0	—	—	—	—	
2.0—3.0	—	—	—	—	
3.0—4.0	204	4	—	208	
4.0—5.0	—	4	—	4	
5.0 & above	1499	1026	36	2561	
not recorded	52	84	5	141	
all	1755	1118	41	2914	

*see footnote on table 15.

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS* AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER

GENERAL SAMPLE		HARYANA						
source of power	possession type							
	owned singly		owned jointly		rented		total	
	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
electricity	829	489025	855	189497	71	—	1755	678522
diesel	588	308039	463	113491	67	—	1118	421530
both electricity & diesel	20	16548	21	3020	—	—	41	19568
all	1437	813612	1339	3060008	138	—	2914	1119620

*See footnote on table 15.

TABLE 18 : ESTIMATES OF NUMBER OF PUMPSETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE

GENERAL SAMPLE		HARYANA				
source of power	no. of pumpsets (00) reporting area irrigated by source of water					total
	well	tube well	rivers & streams	others	not recorded	
(0)	(1)	(2)	(3)	(4)	(5)	(6)
owned singly						
1. electricity	8	821	—	—	—	829
2. diesel	—	588	—	—	—	588
3. both electricity & diesel	—	20	—	—	—	20
4. all	8	1429	—	—	—	1437
owned jointly						
1. electricity	55	800	—	—	—	855
2. diesel	—	459	—	4	—	463
3. both electricity & diesel	—	21	—	—	—	21
4. all	55	1280	—	4	—	1339
rented						
1. electricity	4	67	—	—	—	71
2. diesel	—	59	4	4	—	67
3. both electricity & diesel	—	—	—	—	—	—
all	4	126	4	4	—	138
total						
1. electricity	67	1688	4	8	—	1755
2. diesel	—	1106	—	—	—	1118
3. both electricity & diesel	—	41	—	—	—	41
4. all	67	2835	4	8	—	2914

*see footnote on table 15.

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEMS OF EXPENDITURE

GENERAL SAMPLE		HARYANA	
items of expenditure		amount (Rs. 000)	
(0)	(1)	(0)	(1)
1. repair and maintenance expenses of bunds and field channels	822	822	7668
2. water charge	403	403	107490
3. other expenses on independently owned lift irrigation	11347	11347	257954
4. share of expenses on joint arrangements	3020	3020	59203
5. receipt from sale of water	—	—	(-4405)
total	15592	15592	427910

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF SAMPLE HOUSEHOLDS SURVEYED FOR SCHEDULE 22.1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATING HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION.

GENERAL SAMPLE		HIMACHAL PRADESH
item		number
(0)		(1)
1. number of sample villages allotted for survey		248
2. number of sample villages actually surveyed		248
3. number of sample households surveyed for Schedule 22.1		1451
4. estimated number of total households (00)		6262
5. estimated number of cultivating households (00)		5657
(i) usually using irrigation		1815
(ii) usually not using irrigation ^b		3842

a from listing Schedule -Draft Report No. 291, Part-I

b from schedule 22.2 -Draft Report No. 312

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION FACILITY BY SIZE CLASS OF HOLDING

GENERAL SAMPLE		HIMACHAL PRADESH											
size class of holding (hectare)	no. of households (00) with irrigable land	irrigable area (hectares 00)					area of land without irrigation facility (hectares 00)					gross cropped area	
		area possessed owned	leased-in	total	net area sown	area cropped more than once	gross cropped area	area possessed owned	leased-in	total	net area sown		area cropped more than once
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
less than 0.5	448	85	33	118	114	92	209	52	2	54	34	25	59
0.5-1.0	538	186	20	206	200	170	375	196	3	199	142	115	258
1.0-2.0	478	264	16	280	273	167	450	424	8	432	297	231	528
2.0-4.0	282	211	—	211	205	144	354	555	4	559	367	257	624
4.0-10.0	65	69	5	74	70	63	141	321	—	321	152	110	262
10.0 & above	4	7	1	8	7	5	12	55	—	55	16	11	27
all	1815	822	75	897	869	641	1541	1603	17	1620	1008	749	1758

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION

GENERAL SAMPLE						HIMACHAL PRADESH						
size class of holding (hectare)	flow					lift					flow & lift combined	
	canal	diver- sion scheme	tank	others	all	well	tube well	river	tank	others		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
number of households (00) reporting area irrigated												
less than 0.5	1	347	9	95	438	-	10	-	-	-	10	445
0.5-1.0	-	430	5	102	521	-	14	-	-	3	17	533
1.0-2.0	1	341	1	119	448	-	28	-	-	2	30	471
2.0-4.0	-	191	-	78	261	1	17	-	-	3	21	278
4.0-10.0	-	20	-	37	55	-	7	-	-	3	10	64
10.0 & above	-	2	-	2	4	-	-	-	-	-	-	4
all	2	1331	15	433	1727	1	76	-	-	11	88	1795
net area irrigated (hectares 00)												
less than 0.5	1	64	1	20	86	-	-	-	-	-	-	86
0.5-1.0	-	161	1	36	198	-	2	-	-	-	2	200
1.0-2.0	1	181	-	63	245	-	11	-	-	-	11	256
2.0-4.0	-	128	-	54	182	1	20	-	-	-	21	203
4.0-10.0	-	23	-	31	54	-	11	-	-	1	12	66
10.0 & above	3	-	-	3	6	-	-	-	-	-	-	6
all	2	560	2	207	771	1	44	-	-	1	46	817

TABLE 3 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOLDING AND BY SOURCE OF POWER

GENERAL SAMPLE						HIMACHAL PRADESH						
size class of holding (hectare)	no. of households (00) reporting lift irrigation using						net area irrigated (hectares (00) by lift using					
	elec- tricity	diesel	wind- mill	animal	human	all	elec- tricity	diesel	wind- mill	animal	human	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
less than 0.5	10	-	-	-	-	10	-	-	-	-	-	-
0.5-1.0	17	-	-	-	-	17	2	-	-	-	-	2
1.0-2.0	30	-	-	-	-	30	11	-	-	-	-	11
2.0-4.0	18	2	-	1	-	21	18	2	-	-	-	21
4.0-10.0	10	-	-	-	-	10	12	-	-	-	-	12
10.0 & above	-	-	-	-	-	-	-	-	-	-	-	-
all	85	2	-	1	-	88	43	2	-	1	-	46

TABLE 4 : ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF THE SOURCE OF WATER FOR IRRIGATION

ownership of source of water for irrigation	net area irrigated (hectares 00) by type of irrigation											flow & lift combined
	flow					lift						
	canal	diversion scheme	tank	others	all	well	tube well	river	tank	others		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
government	—	89	—	106	195	—	18	—	—	1	19	214
co-operative	—	12	—	—	12	—	—	—	—	—	—	12
private-joint	—	299	—	39	338	—	16	—	—	—	16	354
private-single	2	160	2	62	226	1	10	—	—	—	11	237
all	2	560	2	207	771	1	44	—	—	1	46	817

TABLE 5 : ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND BY SOURCE OF POWER

ownership of lifting equipment	net area irrigated (hectares 00) by source of power							all
	elec- tricity	diesel	wind- mill	animal drawn	human drawn			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
government	19	—	—	—	—	—	19	
co-operative	—	—	—	—	—	—	—	
private-joint	16	—	—	—	—	—	16	
private-single	8	2	—	1	—	—	11	
all	43	2	—	1	—	—	46	

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION OF FACILITY BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASON FOR NOT IRRIGATION

GENERAL SAMPLE	HIMACHAL PRADESH			
size class of holding (hectare)	area (hectares 00) by reasons for not irrigating			
	adequate rainfall	non-availability of water	other reasons	all reasons
(0)	(1)	(2)	(3)	(4)
less than 0.5	—	1	—	1
0.5-1.0	—	8	1	9
1.0-2.0	—	25	1	26
2.0-4.0	—	7	—	7
4.0-10.0	—	—	9	9
10.0 & above	—	—	—	—
all.	—	41	11	52

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF THE PLOTS, NET AREA IRRIGATED, NET AREA NOT IRRIGATED AND NET AREA SOWN BY SIZE CLASS OF PARCELS.

GENERAL SAMPLE	HIMACHAL PRADESH				
size class of parcels (hectare)	area (hectare 00)				
	no. of parcels (00)	total irrigable land	net area irrigated	net area not irrigated	net area sown
(0)	(1)	(2)	(3)	(4)	(5)
less than 0.05	849	25	22	2	24
0.05-0.1	1068	80	70	—	76
0.1-0.2	1318	183	165	13	178
0.2-0.3	766	181	167	11	178
0.3-0.4	308	101	95	4	99
0.4-0.5	249	109	97	6	103
0.5-1.0	207	144	135	5	140
1.0-2.0	46	56	48	5	53
2.0 & above	7	18	18	—	18
all	4818	897	817	52	869

Parcel : A plot or contiguously located plots having a common source of irrigation facility possessed by the household was treated as a parcel.

TABLE 8 : ESTIMATES OF AREA (I) UNDER CROP (II) APPLIED WITH FERTILISER (III) APPLIED WITH MANURE (IV) AFFECTED BY PESTS AND DISEASES (V) SPRAYED WITH PESTICIDES AND (VI) OF CROPS FINALLY DAMAGED AND VALUE OF (I) FERTILISER USED (II) MANURE USED AND (III) PESTICIDES SPRAYED SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE										HIMACHAL PRADESH			
crop/crop group	area (hectares 00)						value (Rs. 000) of						
	under crop	applied with fertiliser	applied with manure	affected by pests & diseases	sprayed with pesticides	of crops finally damaged	fertiliser used	manure used	pesticides sprayed				
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)				
<i>irrigated crops</i>													
paddy	456	145	403	68	2	—	1440	5886	4				
maize	134	55	120	17	—	1	809	1638	—				
wheat	540	230	403	71	—	—	2759	6018	—				
all cereals	1228	450	1003	159	2	1	5205	14845	4				
all pulses	23	3	14	1	—	—	85	258	—				
all oilseeds	31	2	26	1	—	—	21	319	—				
other crop	104	19	78	10	2	2	320	1081	4				
commodities													
all other crops	10	2	9	—	—	—	51	267	—				
all crops	1396	476	1130	171	4	3	5682	16770	8				
<i>unirrigated crops</i>													
paddy	115	19	76	6	—	—	129	810	—				
maize	644	189	573	42	—	—	1445	6857	—				
wheat	768	92	5540	61	—	—	834	6469	—				
all cereals	1680	301	1284	119	—	—	2412	15367	—				
all pulses	79	5	57	4	—	—	47	581	—				
all oilseeds	21	2	15	—	—	—	8	165	—				
other crop commodities	114	17	83	4	—	—	386	879	—				
all other crops	9	1	3	1	—	—	13	145	—				
all crops	1903	326	1442	128	—	—	2866	17137	—				

TABLE 9 : ESTIMATES OF AREA UNDER CROP, AREA APPLIED WITH FERTILISER AND MANURE AND AREA AFFECTED BY PESTS AND DISEASES FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETY OF SEEDS.

GENERAL SAMPLE

HIMACHAL PRADESH

crop/crop group	irrigated crop area (hectares 00)				unirrigated crop area (hectares 00)			
	total	applied with fertiliser	applied with manure	affected by pests and diseases	total	applied with fertiliser	applied with manure	affected by pests and diseases
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<i>ordinary variety</i>								
paddy	317	86	267	35	92	4	51	5
maize	130	51	116	16	630	179	563	42
wheat	268	56	173	19	596	40	403	41
all cereals	812	212	632	73	1471	224	1112	98
all pulses	23	3	14	1	79	5	57	4
all oil seeds	31	2	26	1	21	2	15	—
other crop commodities	100	18	74	6	114	17	83	4
all other crops	9	2	8	—	9	1	3	1
all crops	975	237	754	81	1694	249	1270	107
<i>improved variety</i>								
paddy	139	59	136	33	23	15	25	1
maize	4	4	4	1	14	10	10	—
wheat	272	174	230	52	172	52	137	20
all cereals	416	238	371	86	209	77	172	21
all pulses	—	—	—	—	—	—	—	—
all oilseeds	—	—	—	—	—	—	—	—
other crop commodities	4	1	4	4	—	—	—	—
all other crops	1	—	1	—	—	—	—	—
all crops	421	239	376	90	209	77	172	21

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISERS HAVING NUTRIENTS N ONLY, NP ONLY, NPK ONLY AND OTHERS SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP

GENERAL SAMPLE

HIMACHAL PRADESH

crop/crop group	irrigated crop area (hectares 00) applied with fertilisers having nutrients					unirrigated crop area (hectares 00) applied with fertilisers having nutrients				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
paddy	102	4	39	—	145	11	—	8	—	19
maize	36	4	15	—	55	120	11	58	—	189
wheat	137	1	92	—	230	53	1	38	—	92
all cereals	292	9	149	—	450	186	12	103	—	301
all pulses	3	—	—	—	3	3	—	2	—	5
all oil seeds	1	—	1	—	2	2	—	—	—	2
other crop commodities	16	—	3	—	19	13	3	1	—	17
all other crops	1	—	1	—	2	1	—	—	—	1
all crops	313	9	154	—	476	205	15	106	—	326

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate, ammonium chloride and urea.

'NP' only means nitrogenous phosphat fertilisers like ammonium phosphate, [ammonium phosphate sulphate, diammonium phosphate, urea ammonium phosphate and ammonium nitrate phosphate. It also includes phosphate fertilisers like single super phosphate, triple super phosphate and palfos in combination with nitrogenous fertilisers containing 'N' only.

'NPK' means nitrogenous phosphatic potash fertilisers like nitrophosphate and NPK complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NP' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND TYPE OF IRRIGATION

GENERAL SAMPLE

HIMACHAL PRADESH

crop/crop group	area (hectares 00) under irrigated crop by type of irrigation											
	flow					lift						flow and lift combined
	canal	diversion scheme	tank	others	total	well	tubewell	river	tank	others	total	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
paddy	—	380	1	58	439	—	16	—	—	1	17	456
maize	2	61	—	55	118	1	15	—	—	—	16	134
wheat	2	384	—	115	501	1	38	—	—	—	39	540
all cereals	5	899	1	251	1156	2	69	—	—	1	72	1228
all pulses	—	14	1	7	22	—	1	—	—	—	1	23
all oilseeds	—	25	—	4	29	—	2	—	—	—	2	31
other crop commodities	1	27	—	66	94	—	10	—	—	—	10	104
all other crops	—	3	—	4	7	—	3	—	—	—	3	10
all crops	6	968	2	332	1308	2	85	—	—	1	88	1096

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND NUMBER OF TIMES IRRIGATED

GENERAL SAMPLE

HIMACHAL PRADESH

crop/crop group	crop area (hectares 00) irrigated					total
	once	twice	thrice	more than thrice	not recorded	
(0)	(1)	(2)	(3)	(4)	(5)	(6)
paddy	59	50	15	330	2	456
maize	80	17	7	27	3	134
wheat	210	162	80	77	11	540
all cereals	368	233	120	491	16	1228
all pulses	2	3	8	10	—	23
all oilseeds	9	12	8	2	—	31
other crop commodities	8	12	15	65	4	104
all other crops	2	3	1	4	—	10
all crops	389	263	152	572	20	1396

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROPS WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUP

GENERAL SAMPLE

HIMACHAL PRADESH

crop/crop group	area (hectares 00) under irrigated crop		
	with subsi- diary irrigation	without subsi- diary irrigation	total
(0)	(1)	(2)	(3)
paddy	1	455	456
maize	2	132	134
wheat	4	536	540
all cereals	8	1220	1228
all pulses	1	22	23
all oilseeds	—	31	31
other crop commodities	2	102	104
all other crops	—	10	10
all crops	11	1385	1396

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES—3 YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOLDING

GENERAL SAMPLE		HIMACHAL PRADESH						
items of assets	value (Rs. 000) of agricultural implements, irrigation equipments and draught animals by size class of holding (hectare)							
	less than 0.5	0.5-1.0	1.0-2.0	2.0-4.0	4.0-10.0	10.0 & above	all	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
agricultural implement								
1. tractor	—	—	—	6171	3630	—	9801	
2. power tiller	—	—	—	242	424	—	666	
3. sprayer	—	—	—	—	—	—	—	
4. duster	—	—	—	—	—	—	—	
5. thresher	—	557	172	927	895	—	2551	
6. cane crusher	—	44	—	103	520	—	667	
7. oil crusher	—	1035	—	30	—	—	1065	
8. all	—	1636	172	7473	5469	—	14750	
irrigation equipments								
1. electric pumps	—	109	460	1633	1694	—	3896	
2. diesel pumps	—	—	—	278	—	—	278	
3. wind-mill	—	—	—	—	—	—	—	
4. moat	—	—	—	—	—	—	—	
5. persian wheel	—	—	—	—	—	—	—	
6. others (animal-driven)	—	—	—	—	—	—	—	
7. counter poise	—	—	—	—	—	—	—	
8. manual pumps	—	—	—	—	—	—	—	
9. others	—	—	—	212	—	—	212	
10. all	—	109	460	2123	1694	—	4386	
draught animals								
1. cattles	11618	21485	20610	12825	3963	131	70632	
2. buffaloes	—	—	52	26	—	—	78	
3. all	11618	21485	20662	12851	3963	131	70710	
total	11618	23230	21294	22447	11126	131	89846	

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND NUMBER OF PUMPSETS POSSESSED BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE		HIMACHAL PRADESH	
size class of holding (hectare)		no. of households reporting pumpsets (00)	no. of pumpsets* (00)
(0)		(1)	(2)
less than 0.5		—	—
0.5—1.0		1	1
1.0—2.0		7	7
2.0—4.0		9	10
4.0—10.0		3	3
10.0 & above		—	—
all		20	21

*In this and subsequent tables on number of pumpsets, the number includes those possessed jointly as well as on rent. In the case of jointly possessed, instead of the household share of the number possessed, the total number possessed jointly has been counted as possessed by the sample household. Hence the estimated number of pumpsets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE OF POWER AND BY HORSE POWER

GENERAL SAMPLE		HIMACHAL PRADESH			
horse power	no. of pumpsets* (00) having source of power				
	elec- tricity	diesel	both electricity & diesel	total	
(0)	(1)	(2)	(3)	(4)	
less than 1.0	—	—	—	—	
1.0—2.0	—	—	—	—	
2.0—3.0	—	—	—	—	
3.0—4.0	—	—	—	—	
4.0—5.0	—	—	—	—	
5.0 & above	15	2	—	17	
not recorded	4	—	—	4	
all	19	2	—	21	

*see footnote on table 15

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS* AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER

GENERAL SAMPLE		HIMACHAL PRADESH						
source of power	possession type							
	owned singly		owned jointly		rented		total	
	no. of pump- sets (00)	hh's share of value of owned equip- ments (Rs. 000)	no. of pump- sets (00)	hh's share of value of owned equip- ments (Rs. 000)	no. of pump- sets (00)	hh's share of value of owned equip- ments (Rs. 000)	no. of pump- sets (00)	hh's share of value of owned equip- ments (Rs. 000)
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
electricity	4	196	10	3301	5	—	19	3497
diesel	1	301	1	79	—	—	2	380
both electricity & diesel	—	—	—	—	—	—	—	—
all	5	497	11	3380	5	—	21	3877

*see footnote on table 15

TABLE 18 : ESTIMATES OF NUMBER OF PUMPSETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE

GENERAL SAMPLE		HIMACHAL PRADESH				
source of power	no. of pumpsets (00) reporting area irrigated by source of water					
	well	tube well	rivers & streams	others	not recorded	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)
owned singly						
1. electricity	—	4	—	—	—	4
2. diesel	—	1	—	—	—	1
3. both electricity & diesel	—	—	—	—	—	—
4. all	—	5	—	—	—	5
owned jointly						
1. electricity	—	10	—	—	—	10
2. diesel	—	1	—	—	—	1
3. both electricity & diesel	—	—	—	—	—	—
4. all	—	11	—	—	—	11
rented						
1. electricity	—	5	—	—	—	5
2. diesel	—	—	—	—	—	—
3. both electricity & diesel	—	—	—	—	—	—
4. all	—	5	—	—	—	5
total						
1. electricity	—	19	—	—	—	19
2. diesel	—	2	—	—	—	2
3. both electricity & diesel	—	—	—	—	—	—
4. all	—	21	—	—	—	21

*see foot note on table 15

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEM OF EXPENDITURE

GENERAL SAMPLE		HIMACHAL PRADESH
items of expenditure		amount (Rs. 000)
0		1
1. repair and maintenance expenses of bunds and field channels		3423
2. water charges		366
3. other expenses on independently owned lift irrigation		246
4. share of expenses on joint arrangements		14
5. receipt from sale of water		—
6. total		4049

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF HOUSEHOLDS SURVEYED FOR SCHEDULE 22-1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATING HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION

GENERAL SAMPLE

JAMMU & KASHMIR

item	number
(0)	(1)
1. number of sample villages allotted for survey	440
2. number of sample villages actually surveyed	440
3. number of sample households surveyed for Schedule 22-1	4477
4. estimated number of total households (00) ^a	7130
5. estimated number of cultivating households (00)	6400
(i) usually using irrigation	3950
(ii) usually not using irrigation ^b	2450

a. from listing Schedule—Draft Report No. 291, Part—I.

b. from Schedule 22-2—Draft Report No. 312.

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION FACILITY BY SIZE CLASS OF HOLDING

GENERAL SAMPLE

JAMMU & KASHMIR

size class of holding (hectare)	no. of households (00) with irrigable land	irrigable area (hectares 00)						area of land without irrigation facility (hectares 00)					
		area possessed			net area sown	area cropped more than once	gross cropped area	area possessed			net area sown	area cropped more than once	gross cropped area
		owned	leased in	total				owned	leased in	total			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
less than 0.5	1099	211	12	223	221	55	276	100	1	101	69	2	71
0.5—1.0	1249	526	32	558	554	138	692	334	10	344	263	20	283
1.0—2.0	1145	824	42	866	863	293	1156	689	35	724	570	59	629
2.0—4.0	397	419	36	455	454	193	647	570	26	596	460	57	517
4.0—10.0	60	92	4	96	95	42	137	176	18	194	131	17	148
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—	—
all	3950	2072	126	2198	2187	721	2908	1869	90	1959	1493	155	1648

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION

GENERAL SAMPLE		JAMMU & KASHMIR										
size class of holding (hectare)	flow					lift					flow & lift com- bined	
	canal	diversion scheme	tank	others	all	well	tube well	river	tank	others		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
number of households (00) reporting area irrigated												
less than 0.5	217	73	—	797	1050	10	—	20	—	24	52	1099
0.5 - 1.0	243	153	—	848	1195	17	1	39	—	13	66	1244
1.0 - 2.0	283	214	—	626	1079	21	—	46	—	9	71	1143
2.0 - 4.0	110	122	—	153	375	9	—	14	—	3	24	397
4.0 - 10.0	14	24	—	20	58	—	—	2	—	—	2	60
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—
all	872	586	—	2444	3757	57	1	121	—	49	215	3943
net area irrigated (hectares 00)												
less than 0.5	49	9	—	158	216	—	—	4	—	1	5	221
0.5 - 1.0	123	27	—	384	534	1	1	15	—	1	18	552
1.0 - 2.0	278	68	—	477	823	4	—	30	—	—	34	857
2.0 - 4.0	177	62	—	180	419	12	—	18	—	—	30	449
4.0 - 10.0	33	17	—	42	92	—	—	2	—	—	2	94
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—
all	660	183	—	1241	2084	17	1	69	—	2	89	2173

TABLE 3 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOLDING AND BY SOURCE OF POWER

GENERAL SAMPLE		JAMMU & KASHMIR										
size of class of holding (hectare)	no. of households (00) reporting lift irrigation using						net area irrigated (hectares 00) by lift using					
	electri- city	diesel	wind- mil	animal	human	all	electri- city	diesel	wind- mill	animal	human	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
less than 0.5	19	—	—	—	33	52	4	—	—	—	1	5
0.5 - 1.0	38	—	—	—	28	66	17	—	—	—	1	18
1.0 - 2.0	43	—	—	1	27	71	29	—	—	3	2	34
2.0 - 4.0	13	4	—	—	7	24	17	12	—	—	1	30
4.0 - 10.00	2	—	—	—	—	2	2	—	—	—	—	2
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—
all	115	4	—	1	95	215	69	12	—	3	5	89

TABLE 4 : ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF THE SOURCE OF WATER FOR IRRIGATION

GENERAL SAMPLE		JAMMU & KASHMIR										
		net area irrigated (hectares 00) by type of irrigation										
ownership of source of water for irrigation	flow					lift					flow & lift combined	
	canal	diversion scheme	tank	others	all	well	tube-well	river	tank	others		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
government	656	15	—	1224	1895	—	1	69	—	1	71	1966
co-operative	—	—	—	—	—	—	—	—	—	—	—	—
private-joint	4	159	—	7	170	—	—	—	—	—	—	170
private-single	—	9	—	10	19	17	—	—	—	1	18	37
all	660	183	—	1241	2084	17	1	69	—	2	89	2173

TABLE 5 : ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND BY SOURCE OF POWER*

GENERAL SAMPLE		JAMMU & KASHMIR					
		net area irrigated (hectares 00) by source of power					
ownership of lifting equipment	electricity	diesel	windmill	animal drawn	human drawn	all	
	(0)	(1)	(2)	(3)	(4)	(5)	(6)
government	69	—	—	—	—	69	
co-operative	—	—	—	—	—	—	
private-joint	—	—	—	—	—	—	
private-single	—	12	—	3	5	20	
all	69	12	—	3	5	89	

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION FACILITY BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASON FOR NOT IRRIGATION

GENERAL SAMPLE		JAMMU & KASHMIR			
size class of holding (hectare)	area (hectares 00) by reason for not irrigating				
	adequate rainfall	non-availability of water	other reasons	all reasons	
(0)	(1)	(2)	(3)	(4)	
less than 0.5	—	—	—	—	
0.5— 1.0	—	2	—	2	
1.0— 2.0	2	4	—	6	
2.0— 4.0	3	2	—	5	
4.0— 10.0	—	1	—	1	
10.0 & above	—	—	—	—	
all	5	9	—	14	

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF THE PLOTS, NET AREA IRRIGATED, NET AREA NOT IRRIGATED AND NET AREA SOWN BY SIZE CLASS OF PARCELS

GENERAL SAMPLE		JAMMU & KASHMIR			
size class of parcels (hectare)	number of parcels (00)	area (hectares 00)			
		total irrigable land	net area irrigated	net area not irrigated	net area sown
(0)	(1)	(2)	(3)	(4)	(5)
less than 0.05	2174	45	41	—	41
0.05—0.1	2146	126	125	1	126
0.1—0.2	2953	374	372	2	374
0.2—0.3	1681	374	371	1	372
0.3—0.4	830	267	265	1	268
0.4—0.5	519	215	214	1	215
0.5—1.0	747	475	473	2	475
1.0—2.00	179	224	220	3	223
2.0 & above	37	98	92	3	95
all	11266	2198	2173	14	2187

Parcel : A plot or contiguously located plots having a common source of irrigation facility possessed by the household was treated as a parcel.

TABLE 8 : ESTIMATES OF AREA (I) UNDER CROP, (II) APPLIED WITH FERTILISER, (III) APPLIED WITH MANURE, (IV) AFFECTED BY PESTS AND DISEASES, (V) SPRAYED WITH PESTICIDES AND (VI) OF CROPS FINALLY DAMAGED AND VALUE OF (I) FERTILISER USED AND (II) MANURE USED AND (III) PESTICIDES SPRAYED FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE

JAMMU & KASHMIR

crop/crop group	area (hectares 00)						value (Rs. 000) of		
	under crop	applied with fertiliser	applied with manure	affected by pests & diseases	sprayed with pesticides	of crops finally damaged	fertiliser used	manure used	pesticides sprayed
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
irrigated crops									
paddy	1956	1484	1441	11	1	1	25822	28659	4
maize	102	4	90	1	—	—	43	1726	—
wheat	413	277	169	1	—	—	4357	1258	—
all cereals	2477	1765	1701	13	1	1	30296	31736	4
all pulses	10	1	6	—	—	—	23	131	—
all oil seeds	145	5	38	—	—	—	83	638	—
other crop commodities	155	44	106	5	4	1	921	7233	343
all other crops	—	—	—	—	—	—	12	15	—
all crops	2787	1815	1851	18	5	2	31335	39753	347
unirrigated crops									
paddy	29	3	13	—	—	—	25	212	36
maize	893	34	510	28	—	—	389	9370	16
wheat	335	72	157	4	—	—	1008	1618	—
all cereals	1311	112	705	32	—	—	1456	11515	52
all pulses	162	1	23	—	—	—	11	518	2
all oil seeds	75	1	18	—	—	—	22	232	—
all other commodities	219	23	18	54	53	2	588	659	4272
all other crops	2	—	1	—	—	—	12	94	—
all crops	1769	137	765	86	53	2	2039	13018	4326

TABLE 9 : ESTIMATES OF AREA UNDER CROP, AREA APPLIED WITH FERTILISER AND MANURE AND AREA AFFECTED BY PESTS AND DISEASES FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETY OF SEEDS.

GENERAL SAMPLE

JAMMU & KASHMIR

crop/crop group	irrigated crop area (hectares 00)				unirrigated crop area (hectares 00)			
	total	applied with fertiliser	applied with manure	affected by pests & diseases	total	applied with fertiliser	applied with manure	affected by pests & diseases
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ordinary variety								
paddy	770	492	355	11	22	2	7	—
maize	102	4	90	1	892	34	510	28
wheat	353	230	157	1	313	64	148	3
all cereals	1236	726	603	13	1279	103	690	31
all pulses	10	1	6	—	162	1	23	—
all oilseeds	140	5	37	—	75	1	18	—
other crop commodities	152	44	105	4	183	19	16	36
all other crops	—	—	—	—	2	—	1	—
all crops	1538	776	751	17	1705	124	748	67
improved variety								
paddy	1186	592	1036	—	7	1	6	—
maize	—	—	—	—	1	—	—	—
wheat	55	47	12	—	22	8	9	1
all cereals	1241	1039	1098	—	32	9	15	1
all pulses	—	—	—	—	—	—	—	—
all oilseeds	5	—	1	—	—	—	—	—
other crop commodities	3	—	1	1	31	4	2	18
all other crops	—	—	—	—	—	—	—	—
all crops	1249	1039	1100	1	63	13	17	19

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISERS HAVING NUTRIENTS N ONLY, NP ONLY, NPK ONLY AND OTHERS SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE

JAMMU & KASHMIR

crop/crop group	irrigated crop area (hectares 00) applied with fertilisers having nutrients					unirrigated crop area (hectares 00) applied with fertilisers having nutrients				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
paddy	1175	300	—	9	1484	3	—	—	—	3
maize	4	—	—	—	4	32	1	1	—	34
wheat	166	109	—	2	277	54	14	4	—	72
all cereals	1345	409	—	11	1765	92	15	5	—	12
all pulses	1	—	—	—	1	1	—	—	—	1
all oil seeds	5	—	—	—	5	1	—	—	—	1
other crops	39	5	—	—	44	21	1	—	—	1
commodities	—	—	—	—	—	—	—	—	1	23
all other crops	—	—	—	—	—	—	—	—	—	—
all crops	1390	414	—	11	1815	115	16	5	1	137

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate ammonium chloride and urea.

'NP' only means nitrogenous phosphate fertilisers like ammonium phosphate, ammonium phosphate sulphate, diammonium phosphate, urea ammonium phosphate and ammonium nitrate phosphate. It also includes phosphate fertilisers like single super phosphate, triple super phosphate and palfos in combination with nitrogenous fertilisers containing 'N' only.

'NPK' means nitrogenous phosphatic potash fertilisers like nitrophosphate and NPK complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NP' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND TYPE OF IRRIGATION

GENERAL SAMPLE

JAMMU & KASHMIR

crop/crop group	area (hectares 00) under irrigated crop by type of irrigation											
	flow					lift					flow and lift combined	
	canal	diversion scheme	tank	others	total	well	tube-well	river	tank	others		total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
paddy	612	168	—	1096	1876	13	1	66	—	—	80	1956
maize	29	10	—	63	102	—	—	—	—	—	—	102
wheat	88	141	—	70	299	45	9	60	—	—	—	413
all cereals	730	319	—	1232	2281	60	10	126	—	—	114	413
all pulses	—	1	—	9	10	—	—	—	—	—	196	2477
all oilseeds	18	—	—	125	143	—	—	—	—	—	—	10
other crop commodities	47	44	—	59	150	—	—	2	—	—	2	145
all other crops	—	—	—	—	—	2	—	1	—	—	2	155
all crops	795	364	—	1425	2584	62	10	129	—	2	203	2787

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND NUMBER OF TIMES IRRIGATED.

GENERAL SAMPLE

JAMMU & KASHMIR

crop/crop group	crop area (hectares 00) irrigated					total
	once	twice	thrice	more than thrice	not recorded	
	(1)	(2)	(3)	(4)	(5)	
(0)	(1)	(2)	(3)	(4)	(5)	(6)
paddy	6	70	126	1730	24	1956
maize	20	39	20	16	7	102
wheat	143	156	89	24	1	413
all cereals	169	265	235	1776	32	2477
all pulses	1	6	2	1	—	10
all oilseeds	31	64	42	6	2	145
other crop commodities	8	15	9	119	4	155
all other crops	—	—	—	—	—	—
all crops	209	350	288	1902	38	2787

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROPS WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUP.

GENERAL SAMPLE

JAMMU & KASHMIR

crop/crop group	area (hectares 00) under irrigated crop		
	with subsidiary irrigation	without subsidiary irrigation	total
	(1)	(2)	(3)
(0)	(1)	(2)	(3)
paddy	171	1785	1956
maize	—	102	10
wheat	27	386	413
all cereals	198	2279	2477
all pulses	—	10	10
all oilseeds	1	144	145
other crop commodities	—	155	155
all other crops	—	—	—
all crops	199	2588	2787

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES - 3 YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOLDING

GENERAL SAMPLE		JAMMU & KASHMIR					
Items of assets	value (Rs. 000) of agricultural implements, irrigation equipments and draught animals by size class of holding (hectare)						
	less than 0.5	0.5-1.0	1.0-2.0	2.0-4.0	4.0-10.0	10.0 & above	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
agricultural implements							
1. tractor	—	—	792	—	2871	—	3663
2. power tiller	—	—	—	—	—	—	—
3. sprayer	—	92	200	201	82	—	575
4. duster	—	—	—	—	—	—	—
5. thresher	—	—	—	—	—	—	—
6. cane crusher	—	79	132	208	—	—	426
7. oil crusher	—	—	—	8	—	—	8
8. all	—	171	1131	417	2953	—	4672
irrigation equipments							
1. electric pumps	—	—	—	—	—	—	—
2. diesel pumps	—	—	416	1980	—	—	2396
3. wind-mill	—	—	—	—	—	—	—
4. moat	—	—	—	—	—	—	—
5. persian wheel	—	—	198	218	—	—	416
6. others (animal-driven)	—	—	—	—	—	—	—
7. counter poise	158	164	219	41	8	—	590
8. manual pumps	—	—	—	—	—	—	—
9. others	18	6	8	5	—	—	37
10. all	176	170	841	2244	8	—	3439
draught animals							
1. cattles	18814	64863	106365	51308	9982	—	251332
2. buffaloes	1027	3785	5826	3523	914	—	15075
3. all	19841	68648	112191	54831	10896	—	266407
total	20017	68939	114163	57432	13857	—	274518

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND NUMBER OF PUMPSETS BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE		JAMMU & KASHMIR	
size class of holding (hectare)	no. of households reporting pumpsets		no. of pumpsets* (00)
	(0)	(1)	(2)
less than 0.5	—	1	1
0.5-1.0	—	—	—
1.0-2.0	—	1	1
2.0-4.0	—	4	4
4.0-10.0	—	—	—
10.0 & above	—	—	—
all	—	6	6

*In this and subsequent tables on number of pumpsets, the number includes those possessed jointly as well as on rent. In the case of jointly possessed, instead of the household share of the number possessed the total number possessed jointly has been counted as possessed by the sample household. Hence the estimated number of pumpsets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE OF POWER AND HORSE-POWER.

GENERAL SAMPLE		JAMMU & KASHMIR			
horse power	no. of pumpsets* (00) having source of power				
	electricity	diesel	both electricity & diesel	total	
(0)	(1)	(2)	(3)	(4)	
less than 1.0	—	—	—	—	
1.0—2.0	—	—	—	—	
2.0—3.0	—	—	—	—	
3.0—4.0	—	—	—	—	
4.0—5.0	—	—	—	—	
5.0 & above	—	5	—	5	
not recorded	1	—	—	1	
all	1	5	—	6	

*see footnote on table 15.

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS* AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER.

source of power	possession type							
	owned singly		owned jointly		rented		total	
	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
electricity	—	—	—	—	1	—	1	—
diesel	5	2099	—	—	—	—	5	2099
both electricity & diesel	—	—	—	—	—	—	—	—
all	5	2099	—	—	1	—	6	2099

*see footnote on table 15.

TABLE 18 : ESTIMATES OF NUMBER OF PUMPSETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE.

GENERAL SAMPLE		JAMMU & KASHMIR					
source of power	no. of pumpsets (00) reporting area irrigated by source of water						
	well	tube well	rivers & streams	others	not recorded	total	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	
owned singly							
1. electricity	—	—	—	—	—	—	
2. diesel	2	—	—	3	—	5	
3. both electricity & diesel	—	—	—	—	—	—	
4. all	2	—	—	3	—	5	
owned jointly							
1. electricity	—	—	—	—	—	—	
2. diesel	—	—	—	—	—	—	
3. both electricity & diesel	—	—	—	—	—	—	
4. all	—	—	—	—	—	—	
rented							
1. electricity	1	—	—	—	—	—	
2. diesel	—	—	—	—	—	1	
3. both electricity & diesel	—	—	—	—	—	—	
4. all	1	—	—	—	—	1	
total							
1. electricity	1	—	—	—	—	1	
2. diesel	2	—	—	3	—	5	
3. both electricity & diesel	—	—	—	—	—	—	
4. all	3	—	—	3	—	6	

*see footnote on table 15.

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEMS OF EXPENDITURE.

GENERAL SAMPLE		JAMMU & KASHMIR					
items of expenditure	Amount (Rs. 000)						
	(0)	(1)	(2)	(3)	(4)	(5)	
1. repair and maintenance expenses of bunds and field channels						5588	
2. water charges						4082	
3. other expenses on independently owned lift irrigation						463	
4. share of expenses on joint arrangements						51	
5. receipt from sale of water						(-155)	
6. total						10029	

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF SAMPLE HOUSEHOLDS SURVEYED FOR SCHEDULE 22-1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATOR HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION.

GENERAL SAMPLE		KERALA
item		number
(0)		(1)
1. number of sample villages allotted for survey		360
2. number of sample villages actually surveyed		360
3. number of sample households surveyed for Schedule 22-1		3755
4. estimated number of total households ^a (00)		33043
5. estimated number of cultivating households (00)		29451
(i) usually using irrigation		11551
(ii) usually not using irrigation ^b		17900

a from listing Schedule—Draft Report No. 291, Part-I.

b from Schedule 22-2—Draft Report No. 312.

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION FACILITY BY SIZE CLASS OF HOLDING

GENERAL SAMPLE		KERALA											
size class of holding (hectare)	no. of households (00) usually using irrigation	irrigable area (hectares 00)						area of land without irrigation facility (hectares 00)					
		area possessed			net area sown	area cropped more than once	gross cropped area	area possessed			net area sown	area cropped more than once	gross cropped area
		owned	leased-in	total				owned	leased-in	total			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
less than 0.5	7063	897	29	926	924	308	1236	301	10	311	177	40	218
0.5-1.0	1996	861	38	899	892	359	1254	506	23	529	428	96	525
1.0-2.0	1584	1124	26	1150	1141	442	1589	1004	42	1046	885	154	1043
2.0-4.0	725	825	24	849	840	288	1130	1123	28	1151	993	92	1087
4.0-10.0	165	298	12	310	307	76	384	613	13	626	518	36	554
10.0 & above	18	54	—	54	53	10	63	140	—	140	64	—	64
all	11551	4059	129	4188	4157	1483	5656	3687	116	3803	3065	418	3491

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION

GENERAL SAMPLE												KERALA
size class of holding (hectare)	flow					lift					flow & lift combined	
	canal	diversion scheme	tank	others	total	well	tube-well	river	tank	others		total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
number of households (00) reporting area irrigated												
less than 0.5	457	116	45	187	802	4812	—	267	1212	729	6439	6925
0.5—1.0	414	245	51	131	839	999	—	137	267	205	1448	1928
1.0—2.0	402	236	36	107	775	756	—	113	255	150	1100	1515
2.0—4.0	129	186	39	42	390	227	—	73	88	97	421	700
4.0—10.0	54	30	12	9	104	27	—	24	33	12	82	165
10.0 & above	3	3	3	—	9	12	—	3	—	—	12	18
all	1459	816	186	476	2919	6833	—	617	1855	1193	9502	11251
net area irrigated (hectares 00)												
less than 0.5	72	15	5	24	116	414	—	23	100	68	605	721
0.5—1.0	118	51	15	46	230	253	—	39	79	60	431	661
1.0—2.0	229	79	9	38	355	286	—	45	86	53	470	825
2.0—4.0	115	78	21	20	234	111	—	50	63	78	302	536
4.0—10.0	82	25	13	1	121	22	—	20	29	13	84	205
10.0 & above	3	12	—	—	15	4	—	2	—	—	6	21
all	619	260	63	129	1071	1090	—	179	357	272	1898	2969

TABLE 3 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOLDING AND BY SOURCE OF POWER

GENERAL SAMPLE												KERALA
size class of holding (hectare)	no. of households (00) reporting lift irrigation using						net area irrigated (hectares 00) by lift using					
	elec-tricity	diesel	wind-mill	animal	human	all	elec-tricity	diesel	wind-mill	animal	human	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
less than 0.5	280	334	—	107	5820	6439	35	51	—	11	508	605
0.5—1.0	156	152	—	67	1147	1448	54	56	—	16	305	431
1.0—2.0	178	187	—	64	765	1100	96	97	—	25	252	470
2.0—4.0	104	125	—	3	251	421	105	90	—	—	107	302
4.0—10.0	21	30	—	—	51	82	22	37	—	—	25	84
10.0 & above	—	3	—	—	9	12	—	2	—	—	4	6
all	739	831	—	241	8043	9502	312	333	—	52	1201	1898

TABLE 4 : ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF THE SOURCE OF WATER FOR IRRIGATION

GENERAL SAMPLE

KERALA

ownership of source of water for irrigation	net area irrigated (hectares 00) by type of irrigation											
	flow					lift					flow & lift com- bined	
	canal	diver- sion scheme	tank	others	all	well	tube well	river	tank	others		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
government	609	140	20	62	831	7	—	161	19	80	267	1098
co-operative	1	1	3	—	5	1	—	—	—	13	14	19
private-joint	0	25	—	—	25	14	—	1	13	4	32	57
private-single	9	94	40	67	210	1068	—	17	325	175	1585	1795
all	619	260	63	129	1071	1090	—	179	357	272	1898	2969

TABLE 5 : ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND BY SOURCE OF POWER

GENERAL SAMPLE

KERALA

ownership of lifting equipment	net area irrigated (hectares 00) by source of power					
	electricity	diesel	wind mill	animal drawn	human drawn	all
	(1)	(2)	(3)	(4)	(5)	(6)
government	6	7	—	—	—	13
co-operative	51	5	—	—	—	56
private-joint	38	2	—	—	1	41
private single	217	319	—	52	1200	1788
all	312	333	—	52	1201	1898

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION FACILITY BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASON FOR NOT IRRIGATION

GENERAL SAMPLE KERALA

size class of holding (hectare)	area (hectares 00) by reason for not irrigation			
	adequate rainfall	non-availability of water	other reasons	all reasons
(0)	(1)	(2)	(3)	(4)
less than 0.5	17	43	143	203
0.5-1.0	39	51	141	231
1.0-2.0	54	92	170	316
2.0-4.0	60	64	180	304
4.0-10.0	11	19	72	102
10.0 & above	28	4	—	32
all	209	273	706	1188

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF THE PLOTS, NET AREA IRRIGATED, NET AREA NOT IRRIGATED AND NET AREA SOWN BY SIZE CLASS OF PARCELS.

GENERAL SAMPLE KERALA

size class of parcels (hectare)	number of parcels (00)	area (hectares 00)			
		total irrigable land	net area irrigated	net area not irrigated	net area sown
(0)	(1)	(2)	(3)	(4)	(5)
less than 0.05	3194	86	72	12	84
0.05-0.1	3215	228	189	36	225
0.1-0.2	4273	602	494	107	601
0.2-0.3	2454	582	462	112	574
0.3-0.4	1362	467	342	122	464
0.4-0.5	857	372	266	106	372
0.5-1.0	1426	980	689	281	970
1.0-2.0	396	533	304	225	529
2.0 & above	119	338	151	187	338
all	17296	4188	2969	1188	4157

Parcel : A plot or contiguously located plots having a common source of irrigation facility possessed by the sample household was treated as a parcel.

TABLE 8 : ESTIMATES OF AREA (I) UNDER CROP, (II) APPLIED WITH FERTILISER, (III) APPLIED WITH MANURE, (IV) AFFECTED BY PESTS AND DISEASES, (V) SPRAYED WITH PESTICIDES AND (VI) OF CROP FINALLY DAMAGED AND VALUE OF (I) FERTILISER USED (II) MANURE USED AND (III) PESTICIDES SPRAYED SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE			KERALA								
crop/crop group	area (hectares 00)					value (Rs. 000) of					
	under crop	applied with fertiliser	applied with manure	affected by pests diseases	sprayed with pesticides	of crops finally damaged	fertiliser used	manure used	pesticides sprayed		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
Irrigated crops											
paddy	2387	2029	2108	1651	1670	89	82228	75002	21992		
all cereals	2393	2031	2111	1653	1672	89	82341	75148	22043		
all pulses	3	—	—	—	—	—	20	62	3		
all oilseeds	—	—	—	—	—	—	—	28	—		
other crop commodity	1406	195	1305	488	171	6	7562	82185	3826		
all other crops	51	8	45	23	—	—	392	1831	67		
all crops	3853	2234	3461	2164	1843	95	90315	159254	25939		
unirrigated crops											
paddy	1083	687	1022	496	435	33	23732	37721	3775		
all cereals	1120	689	1044	519	438	33	23800	37869	3787		
all pulses	81	2	32	7	24	1191	38	529	3		
all oilseeds	68	16	52	14	—	7	60	775	141		
other crop commodity	3788	562	1784	625	257	5	17290	58888	4142		
all other crop	237	19	67	91	20	—	1466	4067	122		
all crops	5294	1288	2979	1256	739	1236	42654	102128	8068		

TABLE 9 : ESTIMATES OF AREA UNDER CROP, AREA APPLIED WITH FERTILISER AND MANURE, AND AREA AFFECTED BY PESTS AND DISEASES FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETY OF SEEDS

GENERAL SAMPLE

KERALA

crop/crop group	irrigated crop area (hectares 00)				unirrigated crop area (hectares 00)			
	under crop	applied with fertiliser	applied with manure	affected by pests & diseases	under crop	applied with fertiliser	applied with manure	affected by pests & diseases
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ordinary variety								
paddy	1206	896	1119	688	772	409	726	305
all cereals	1212	898	1122	690	809	411	748	328
all pulses	3	—	—	—	80	1	31	6
all oil seeds	—	—	—	—	68	16	52	14
other crop commodity	1384	186	1284	475	3661	477	1731	595
all other crops	51	8	45	23	237	19	67	91
all crops	2650	1092	2451	1188	4855	924	2629	1034
improved variety								
paddy	1181	1133	989	963	311	278	296	191
all cereals	1181	1133	989	963	311	278	296	191
all pulses	—	—	—	—	1	1	1	1
all oil seeds	—	—	—	—	—	—	—	—
other crop commodity	22	9	21	13	127	85	53	30
all other crops	—	—	—	—	—	—	—	—
all crops	1203	1142	1010	976	439	364	350	222

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISERS HAVING NUTRIENTS N ONLY, NP ONLY, NPK ONLY AND OTHERS SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROPGROUP.

GENERAL SAMPLE						KERALA				
crop/crop group	irrigated area (hectares 00) applied with fertilisers having nutrients					unirrigated area (hectares 00) applied with fertilisers having nutrients				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
paddy	369	550	831	279	2029	172	226	203	86	687
all cereals	369	550	833	279	2031	172	228	203	86	689
all pulses	—	—	—	—	—	—	—	—	2	2
all oilseeds	—	—	—	—	—	—	—	—	16	16
other crop commodity	9	7	130	49	195	11	26	352	173	562
all other crops	—	—	8	—	8	2	—	12	5	19
all crops	378	557	971	328	2234	185	254	567	282	1288

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate ammonium chloride and urea.

'NP' only means nitrogenous phosphate fertilisers like ammonium phosphate, ammonium phosphate sulphate diammonium phosphate, urea ammonium phosphate and ammonium nitrate phosphate. It also includes phosphate fertilisers like single super phosphate, triple super phosphate and palfos in combination with nitrogenous fertilisers containing 'N' only.

'NPK' means nitrogenous phosphatic potash fertilisers like nitrophosphate and NPK complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NP' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROPGROUP AND TYPE OF IRRIGATION

GENERAL SAMPLE													KERALA
crop/crop group	area (hectares 00) under irrigated crops by type of irrigation												
	flow					lift					flow & lift combined		
	canal	diversion scheme	tank	others	total	well	tube well	river	tank	others	total		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
paddy	923	393	61	219	1596	220	—	179	201	191	791	2387	
all cereals	923	393	63	219	1598	222	—	179	203	191	995	2393	
all pulses	—	1	2	—	3	—	—	—	—	—	—	3	
all oilseeds	—	—	—	—	—	—	—	—	—	—	—	—	
other crop commodity	34	5	16	1	56	923	—	60	220	147	1350	1406	
all other crops	—	—	1	1	2	48	—	1	—	—	49	51	
all crops	957	399	82	221	1659	1193	—	240	423	338	2194	3853	

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND NUMBER OF TIMES IRRIGATED.

GENERAL SAMPLE	KERALA					
	crop/crop group	crop area (hectares 00) irrigated				total
		once	twice	thrice	more than thrice	
(0)	(1)	(2)	(3)	(4)	(5)	
paddy	6	37	51	2293	2387	
all cereals	6	37	51	2299	2393	
all pulses	—	—	—	3	3	
all oilseeds	—	—	—	—	—	
other crop commodity	—	22	40	1344	1406	
all other crops	1	4	8	38	51	
all crops	7	63	99	3684	3853	

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROPS WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUP.

GENERAL SAMPLE	KERALA			
	crop/crop group	area (hectares 00) under irrigated crops		total
		with subsidiary irrigation	without subsidiary irrigation	
(0)	(1)	(2)	(3)	
paddy	74	2313	2387	
all cereals	74	2319	2393	
all pulses	2	1	3	
all oilseeds	—	—	—	
other crop commodity	15	1391	1406	
all other crops	—	51	51	
all crops	91	3762	3853	

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES—3 YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOUSEHOLD HOLDING.

GENERAL SAMPLE		KERALA						
value (Rs. 000) of agricultural implements, irrigation equipments and draught animals by size class of holding (hectare)								
items of assets	less than 0.5	0.5—1.0	1.0—2.0	2.0—4.0	4.0—10.0	10.0 & above	all	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
agricultural implements								
1. tractor	—	16324	—	—	—	—	16324	
2. power tiller	—	—	—	1632	6776	—	8408	
3. sprayer	100	532	1418	2902	710	62	5724	
4. duster	—	—	—	—	136	—	136	
5. thresher	—	—	—	—	—	—	—	
6. Cane crusher	—	—	—	—	—	—	—	
7. oil crusher	—	—	—	—	—	—	—	
8. all	100	16856	1418	4534	7622	62	30592	
irrigation equipments								
1. electric pumps	9375	22020	24205	23507	5136	—	84243	
2. diesel pumps	3661	12215	26104	23053	10229	921	76183	
3. wind-mill	706	—	—	—	—	—	706	
4. moat	685	613	762	66	—	—	212	
5. persian wheel	18	163	77	570	—	—	828	
6. others (animal-driven)	26	32	108	108	—	—	274	
7. counter poise	964	877	1033	774	90	9	3747	
8. manual pumps	236	—	—	154	—	—	390	
9. others	4993	2833	2746	1534	1220	11	13337	
10. all	20664	38753	55035	49766	16675	941	181834	
draught animals								
1. cattles	5677	14057	29650	21022	7068	1996	79470	
2. buffaloes	2252	6848	16550	9005	5605	1842	42102	
3. all	7929	20905	46200	30027	12673	3838	121572	
total	28693	76514	102653	84327	36970	4841	333998	

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND NUMBER OF PUMPSETS POSSESSED BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE		KERALA	
size class of holding (hectare)	no. of households reporting pumpsets (00)	no. of pumpsets* (00)	
(0)	(1)	(2)	
less than 0.5	248	251	
0.5—1.0	224	227	
1.0—2.0	285	311	
2.0—4.0	178	200	
4.0—10.0	42	46	
10.0 & above	3	3	
all	980	1038	

*In this and subsequent tables on number of pumpsets, the number includes those possessed jointly as well as on rent. In the case of jointly possessed, instead of the household's share of the number possessed, the total number possessed jointly has been counted as possessed by the sample household. Hence the estimated number of pumpsets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE OF POWER AND BY HORSE POWER

GENERAL SAMPLE

KERALA

horse power	no. of pumpsets* (00) having source of power			total
	elec- tricity	diesel	both elec- tricity & diesel	
(0)	(1)	(2)	(3)	(4)
less than 1.0	3	6	—	9
1.0—2.0	77	80	3	157
2.0—3.0	12	101	—	113
3.0—4.0	194	129	—	326
4.0—5.0	3	3	—	6
5.0 & above	86	160	—	246
not recorded	40	138	3	181
all	415	617	6	1038

*see foot note on table 15

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER

GENERAL SAMPLE

KERALA

source of power	possession type							
	owned singly		owned jointly		rented		total	
	no. of pump- sets (00)	hh's share of value of owned equip- ments (Rs. 000)	no. of pump- sets (00)	hh's share of value of owned equip- ments (Rs. 000)	no. of pump- sets (00)	hh's share of value of equip- ments (Rs. 000)	no. of pump- sets (00)	hh's share of va- lue of owned equip- ments (Rs. 000)
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
electricity	338	74893	22	986	55	—	415	75879
diesel	261	79900	31	3230	325	—	617	74130
both electricity & diesel	—	—	—	—	6	—	6	—
all	599	145793	53	4216	386	—	1038	150009

*see foot note on table 15

TABLE 18 : ESTIMATES OF NUMBER OF PUMPSETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE
GENERAL SAMPLE KERALA

source of power	no of pumpsets (00) reporting area irrigated by source of water				total
	well	tube well	rivers & streams	others	
(0)	(1)	(2)	(3)	(4)	(5)
owned singly					
1. electricity	237	3	18	80	338
2. diesel	163	—	32	55	261
3. both electricity & diesel	—	—	—	—	—
4. all	400	3	61	135	599
owned jointly					
1. electricity	19	—	3	—	22
2. diesel	22	—	3	6	31
3. both electricity & diesel	—	—	—	—	—
4. all	41	—	6	6	53
rented					
1. electricity	31	—	12	12	55
2. diesel	116	—	40	169	325
3. both electricity & diesel	—	—	—	6	6
4. all	147	—	52	187	386
total					
1. electricity	287	3	33	92	415
2. diesel	301	—	86	230	617
3. both electricity & diesel	—	—	—	6	6
4. all	588	3	119	328	1038

*see foot note on table 15.

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEMS OF EXPENDITURE

GENERAL SAMPLE	KERALA
items of expenditure	amount (Rs. 000)
(0)	(1)
1. repair and maintenance expenses on bund and field channels	20495
2. water charges	12665
3. other expenses on independently owned lift irrigation	49490
4. share of expenses on joint arrangements	866
5. receipt from sale of water	(-805)
6. total	82711

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF SAMPLE HOUSEHOLDS SURVEYED FOR SCHEDULE 22-1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATING HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION.

GENERAL SAMPLE		PUNJAB	
item			number
(0)			(1)
1. number of sample villages allotted for survey			344
2. number of sample villages actually surveyed			342
3. number of sample households surveyed for Schedule 22-1			4842
4. estimated number of total households (00) ^a			20502
5. estimated number of cultivating households (00)			8684
(i) usually using irrigation			8171
(ii) usually not using irrigation ^b			513

a from listing Schedule—Draft Report No. 291, Part—I

b from Schedule 22-2—Draft Report No. 312

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION FACILITY BY SIZE CLASS OF HOLDING

GENERAL SAMPLE		PUNJAB											
size class of holding (hectare)	no. of households (00) with irrigable land	irrigable area (hectares 00)						area of land without irrigation facility (hectares 00)					
		area possessed			net area sown	area cropped more than once	gross cropped area	area possessed			net area sown	area cropped more than once	gross cropped area
(0)	(1)	owned	leased-in	total	(5)	(6)	(7)	owned	leased-in	total	(11)	(12)	(13)
less than 0.5	577	128	37	165	161	124	288	11	1	12	2	2	5
0.5—1.0	691	365	125	490	472	396	870	39	5	44	25	9	34
1.0—2.0	1522	1660	352	2012	1955	1617	3588	191	27	218	152	34	186
2.0—4.0	2746	6014	832	6846	6700	5106	11813	672	170	842	690	173	863
4.0—10.0	2213	9445	1596	11041	10809	7418	18237	1480	385	1865	1558	202	1761
10.0 & above	422	3519	1405	4924	4824	2302	7128	1156	115	1271	1078	77	1156
all	8171	21131	4347	25478	24921	16963	41924	3549	703	4252	3505	497	4005

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION

GENERAL SAMPLE

PUNJAB

size class of holding (hectare)	flow					lift					flow & lift combined	
	canal	diver- sion scheme	tank	others	all	well	tube well	river	tank	others		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
number of households (00) reporting area irrigated												
less than 0.5	176	—	—	3	179	14	386	—	—	5	405	514
0.5— 1.0	218	—	1	—	219	44	462	—	—	1	507	639
1.0— 2.0	421	—	—	3	424	128	1144	6	—	2	1276	1492
2.0— 4.0	805	1	—	8	814	158	2140	7	—	3	2298	2728
4.0—10.0	849	1	—	12	862	75	1727	16	—	8	1821	2319
10.0 & above	221	—	—	—	221	2	285	2	—	3	292	454
all	2690	2	1	26	2719	421	6144	31	—	22	6599	8146
net area irrigated (hectares 00)												
less than 0.5	46	—	—	1	47	3	108	—	—	—	111	158
0.5— 1.0	144	—	1	—	145	22	311	—	—	1	334	479
1.0— 2.0	471	—	—	2	473	110	1389	5	—	3	1507	1980
2.0— 4.0	1632	6	—	7	1645	184	4618	12	—	3	4817	6462
4.0—10.0	3175	8	—	37	3220	141	7264	53	—	7	7465	10685
10.0 & above	2005	—	—	—	2005	6	2731	5	—	1	2743	4748
all	7473	14	1	47	7535	466	16421	75	—	15	16977	24512

TABLE 3 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOLDING AND BY SOURCE OF POWER

GENERAL SAMPLE

PUNJAB

size class of holding (hectare)	no. of households (00) reporting lift irrigation using					net area irrigated (hectares 00) by lift using						
	electricity	diesel	wind- mill	animal	human	all	electricity	diesel	wind- mill	animal	human	all
(0)	(1)	(2)	(3)	(4)	(5)	(7)	(6)	(8)	(9)	(10)	(11)	(12)
less than 0.5	183	203	—	12	7	405	45	63	—	3	—	111
0.5— 1.0	187	278	—	42	—	507	118	195	—	21	—	334
1.0— 2.0	431	716	—	129	—	1276	523	870	—	114	—	1507
2.0— 4.0	740	1403	—	154	1	2298	1368	3258	—	189	2	4817
4.0—10.0	586	1161	—	74	—	1821	2353	4938	—	174	—	7465
10.0 & above	85	203	—	4	—	292	1005	1729	—	9	—	2743
all	2212	3964	—	415	8	6599	5412	11053	—	510	2	16977

TABLE 4: ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF THE SOURCE OF WATER FOR IRRIGATION

PUNJAB

GENERAL SAMPLE

net area irrigated (hectares 00) by type of irrigation

ownership of source of water for irrigation	flow					lift			flow and lift combined			
	canal	diversion scheme	tank	others	all	well	tube well	river		tank	others	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
government	7473	—	—	4	7477	—	147	45	—	4	196	7673
co-operative	—	—	—	—	—	—	3	—	—	—	3	3
private-joint	—	8	1	36	45	255	4339	6	—	2	4602	4647
private-single	—	6	—	7	13	211	11932	24	—	9	12176	12189
all	7473	14	1	47	7535	466	16421	75	—	15	16977	24512

TABLE 5: ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND BY SOURCE OF POWER

PUNJAB

GENERAL SAMPLE

net area irrigated (hectares 00) by source of power

ownership of lifting equipment	electricity	diesel	windmill	animal drawn	human drawn	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)
government	135	2	—	—	—	137
co-operative	4	19	—	—	—	23
private-joint	1227	2427	—	300	2	3956
private-single	4046	8605	—	210	—	12861
all	5412	11053	—	510	2	16977

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION FACILITY BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASON FOR NOT IRRIGATION

GENERAL SAMPLE PUNJAB

size class of holding (hectare)	area (hectares 00) by reason for not irrigating			
	adequate rainfall	non-availability of water	other reasons	all reasons
(0)	(1)	(2)	(3)	(4)
less than 0.5	1	1	—	2
0.5—1.0	1	1	4	6
1.0—2.0	9	1	20	30
2.0—4.0	30	9	53	92
4.0—10.0	55	23	119	197
10.0 & above	9	14	59	82
all	105	49	255	409

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF THE PLOTS, NET AREA IRRIGATED, NET AREA NOT IRRIGATED AND NET AREA SOWN BY SIZE CLASS OF PARCELS

GENERAL SAMPLE PUNJAB

size class of parcels (hectare)	area (hectares 00)				
	number of parcels (00)	total irrigable land	net area irrigated	net area not irrigated	net area sown
(0)	(1)	(2)	(3)	(4)	(5)
less than 0.05	55	1	1	—	1
0.05—0.1	138	9	8	1	9
0.1—0.2	465	60	57	1	58
0.2—0.3	645	141	133	8	141
0.3—0.4	410	132	125	5	130
0.4—0.5	1498	609	585	14	599
0.5—1.0	3427	2499	2446	47	2493
1.0—2.0	4193	5777	5319	99	5418
2.0 & above	4534	16250	15838	234	16072
all	15365	25478	24512	409	24921

Parcel : A plot or continuously located plots having a common source of irrigation facility possessed by the household was treated as a parcel,

TABLE 8 : ESTIMATES OF AREA (I) UNDER CROP, (II) APPLIED WITH FERTILISER, (III) APPLIED WITH MANURE, (IV) AFFECTED BY PESTS AND DISEASES, (V) SPRAYED WITH PESTICIDES AND (VI) OF CROPS FINALLY DAMAGED AND VALUE OF (I) FERTILISER USED, (II) MANURE USED AND (III) PESTICIDES SPRAYED SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP

GENERAL SAMPLE										PUNJAB	
crop/crop group	area (hectares 00)					value (Rs. 000) of					
	under crop	applied with ferti-liser	applied with manure	affec-ted by pests & diseases	sprayed with pesti-cides	of crops finally damaged	ferti-liser used	manure used	pesticide-s sprayed		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
irrigated crops											
paddy	4605	4379	1640	674	455	18	183126	28495	3574		
maize	3488	2864	2237	458	170	31	79667	48699	756		
wheat	17161	16517	1650	777	332	4	752357	19922	1359		
all cereals	26428	24251	5700	2006	985	63	1027012	100459	5860		
all pulses	897	66	50	13	1	2	1849	600	37		
all oil seeds	979	425	118	118	40	13	8747	1633	342		
sugarcane	826	653	459	192	131	3	26434	16333	1331		
cotton	4210	3218	1217	2919	2708	1	83265	23051	41082		
other crop commodities	5875	2613	1609	167	77	4	74760	44366	1610		
all other crops	166	130	76	22	12	1	5138	2637	111		
all crops	39381	31356	9229	5437	3954	87	1227205	189079	50373		
unirrigated crops											
paddy	145	74	5	10	2	—	1647	170	25		
maize	923	562	515	56	3	—	10848	12270	13		
wheat	923	288	55	3	—	—	6716	682	—		
all cereals	2608	950	592	89	5	1	19641	13432	42		
all pulses	1710	9	25	29	4	2	260	295	19		
all oil seeds	767	197	50	35	9	2	3276	600	42		
sugarcane	40	10	6	1	—	—	342	165	7		
cotton	59	3	3	6	3	1	52	126	25		
other crop commodities	1358	82	91	29	3	2	1649	2020	14		
all other crops	6	1	1	—	—	—	11	34	1		
all crops	6548	1252	768	189	24	8	25231	16672	150		

TABLE 9 : ESTIMATES OF AREA UNDER CROP, AREA APPLIED WITH FERTILISER AND MANURE AND AREA AFFECTED BY PESTS AND DISEASES FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETY OF SEEDS

GENERAL SAMPLE									PUNJAB
crop/crop group	irrigated crop area (hectares 00)				unirrigated crop area (hectares 00)				
	total	applied with fertiliser	applied with manure	affected by pests & diseases	total	applied with fertiliser	applied with manure	affected by pests & diseases	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
ordinary variety									
paddy	674	587	356	95	68	30	4	6	
maize	3271	2660	2088	383	906	545	502	53	
wheat	960	917	161	37	328	58	32	—	
all cereals	5959	4578	2760	588	1910	656	555	79	
all pulses	890	65	49	13	1699	9	25	29	
all oil seeds	959	409	113	115	734	189	50	35	
sugarcane	364	260	214	78	13	3	3	—	
cotton	1979	1238	658	873	54	2	3	4	
other crop commodities	5769	2512	1561	137	1355	82	91	29	
all other crops	165	129	76	22	6	1	1	—	
all crops	16085	9191	5431	1826	5771	942	728	176	
improved variety									
paddy	3931	3792	1284	579	77	44	1	4	
maize	217	204	149	75	17	17	13	3	
wheat	16201	15600	1489	740	595	230	23	3	
all cereals	20469	19673	2940	1418	698	294	37	10	
all pulses	7	1	1	—	11	—	—	—	
all oil-seeds	20	16	5	3	33	8	—	—	
sugarcane	462	393	245	114	27	7	3	1	
cotton	2231	1980	559	2046	5	1	—	2	
other crop commodities	106	101	48	30	3	—	—	—	
all other crops	1	1	—	—	—	—	—	—	
all crops	23296	22165	3798	3611	777	310	40	13	

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISERS HAVING NUTRIENTS N ONLY, NP ONLY, NPK ONLY AND OTHERS SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP

GENERAL SAMPLE

PUNJAB

crop/crop group	irrigated crop area (hectares 00) applied with fertilisers having nutrients					unirrigated crop area (hectares 00) applied with fertilisers having nutrients				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
paddy	2962	1110	234	73	4379	67	4	1	2	74
maize	2290	359	136	79	2864	496	60	5	1	562
wheat	6603	7850	1866	198	16517	179	85	24	—	288
all cereals	12252	9388	2245	366	24251	766	150	30	4	950
all pulses	45	11	3	7	66	7	—	—	2	9
all oil seeds	290	49	16	70	425	87	56	3	51	197
sugarcane	590	41	8	14	653	10	—	—	—	10
cotton	2871	221	54	72	3218	2	—	—	1	3
other crop commodities	2139	256	32	186	2613	75	4	—	3	82
all other crops	121	4	2	3	130	1	—	—	—	1
all crops	18308	9970	2360	718	31356	948	210	33	61	1252

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate, ammonium chloride and urea.

'NP' only means nitrogenous phosphate fertilisers like ammonium phosphate, ammonium phosphate sulphate, diammonium phosphate, urea ammonium phosphate and ammonium nitrate phosphate. It also includes phosphate fertilisers like single super phosphate, triple super phosphate and palfos in combination with nitrogenous fertilisers containing 'N'.

'NPK' means nitrogenous phosphatic potash fertilisers like nitrophosphate and NPK complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NP' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND TYPE OF IRRIGATION

GENERAL SAMPLE

PUNJAB

crop/crop group	area (hectares 00) under irrigated crop by type of irrigation											
	flow					lift						flow and lift combined
	canal	diversion scheme	tank	others	total	well	tube-well	river	tank	others	total	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
paddy	706	—	—	1	707	37	3816	37	—	8	3898	4605
maize	352	2	1	7	362	137	2987	1	—	1	3126	3488
wheat	3800	8	1	12	3821	284	13006	39	—	11	13340	17161
all cereals	5403	11	2	24	5440	462	20408	98	—	20	20988	26428
all pulses	564	—	—	4	568	9	307	13	—	—	329	897
all oilseeds	352	—	—	1	353	1	620	5	—	—	626	979
sugarcane	102	—	—	1	103	29	693	1	—	—	723	826
cotton	2716	1	—	5	2722	11	1463	14	—	—	1488	4210
other crop commodities	1577	5	1	25	1608	107	4145	9	—	6	4267	5875
all other crops	20	—	—	—	20	7	139	—	—	—	146	166
all crops	10734	17	3	60	10814	626	27775	140	—	26	28567	39381

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND NUMBER OF TIMES IRRIGATED

crop/crop group	crop area (hectares 00) irrigated					total
	once	twice	thrice	more than thrice	not recorded	
	(1)	(2)	(3)	(4)	(5)	
(0)	(1)	(2)	(3)	(4)	(5)	(6)
paddy	113	104	177	4170	41	4605
maize	690	920	705	1113	60	3488
wheat	259	792	1626	14428	56	17161
all cereals	1350	2118	2797	19996	167	26428
all pulses	455	294	83	43	22	897
all oilseeds	369	365	149	80	16	979
sugarcane	19	29	35	740	3	826
cotton	225	477	791	2712	5	4210
other crop commodities	729	947	808	3360	31	5875
all other crops	7	7	4	148	—	166
all crops	3154	4237	4667	27079	244	39381

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROP WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUP

crop/crop group	area (hectares 00) under irrigated crop		
	with subsidiary irrigation	without subsidiary irrigation	total
	(1)	(2)	(3)
(0)	(1)	(2)	(3)
paddy	1528	3077	4605
maize	445	3043	3488
wheat	3516	13645	17161
all cereals	5704	20724	26428
all pulses	73	824	897
all oilseeds	111	868	979
sugarcane	140	686	826
cotton	756	3454	4210
other crop commodities	985	4890	5875
all other crops	27	139	166
all crops	7796	31585	39381

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES—3 YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOLDING

GENERAL SAMPLE		PUNJAB							
items of assets		value (Rs. 000) of agricultural implements, irrigation equipments and draught animals owned by households by size class of holding (hectare)							all
		less than 0.5	0.5—1.0	1.0—2.0	2.0—4.0	4.0—10.0	10.0 & above		
(0)		(1)	(2)	(3)	(4)	(5)	(6)	(7)	
<i>agricultural implements</i>									
1. tractor		1650	825	10127	104438	633836	620647	1371523	
2. power tiller		82	33	548	4463	21478	20442	47046	
3. sprayer		—	—	34	264	1874	1802	3974	
4. duster		—	—	—	—	1199	82	1281	
5. thresher		984	2373	11239	54084	107838	42916	219434	
6. cane crusher		39	1155	4191	13107	17590	5386	41468	
7. oil crusher		—	—	418	40	442	—	900	
8. all		2755	4386	26557	176396	784257	691275	1685626	
<i>irrigation equipments</i>									
1. electric pumps		2805	7863	41962	134327	203889	64074	454920	
2. diesel pumps		6930	18210	88969	337245	269418	68501	789273	
3. wind-mill		—	—	—	165	794	45	1004	
4. moat		—	—	—	177	—	—	177	
5. persian wheel		708	2802	10130	20385	16659	5322	56006	
6. others (animal-driven)		—	—	—	260	637	248	1277	
7. counter poise		—	—	—	—	—	—	—	
8. manual pumps		—	—	—	27	—	—	27	
9. others		—	—	18	—	—	—	18	
10. all		10443	28875	141211	492586	491397	138190	1302702	
<i>draught animals</i>									
1. cattles		3061	21089	125059	346017	392112	85889	973227	
2. buffaloes		1015	5784	15717	26715	17952	1924	69107	
3. all		4076	26873	140776	372732	410064	87813	1042334	
total		17274	60134	308544	1041714	1685718	917278	4030662	

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND NUMBER OF PUMPSETS POSSESSED BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE		PUNJAB		
size class of household holding (hectare)	(0)	(1)	no. of households reporting pumpsets (00)	no. of pumpsets* (00)
less than 0.5			79	81
0.5—1.0			218	222
1.0—2.0			763	801
2.0—4.0			1800	1959
4.0—10.0			1642	2018
10.0 & above			288	463
all			4790	5544

*In this and subsequent tables on member of pump sets, the number includes those possessed jointly as well as on rent. In the case of jointly possessed, instead of the household share of the number possessed, the total number possessed jointly has been counted as possessed by the sample household. Hence the estimated number of pumpsets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE OF POWER AND BY HORSE POWER

GENERAL SAMPLE		PUNJAB			
horse power	no. of pumpsets* (00) having source of power				
	electricity	diesel	both elec- tricity & diesel	total	
(0)	(1)	(2)	(3)	(4)	
less than 1.0	2	3	—	5	
1.0—2.0	5	—	—	5	
2.0—3.0	5	2	—	7	
3.0—4.0	289	18	—	307	
4.0—5.0	—	6	—	6	
5.0 & above	1309	3755	6	5070	
not recorded	40	99	5	144	
all	1650	3883	11	5554	

*see footnote on table 15

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS* AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER

GENERAL SAMPLE		PUNJAB							
source of power	possession type								
	owned singly		owned jointly		rented		total		
	no. of pump-sets (00)	hh's share of value of owned equip-ments (Rs. 000)	no. of pump-sets (00)	hh's share of value of owned equip-ments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equip-ments (Rs. 000)	no. of pump-sets (00)	hh's share of value of owned equip-ments (Rs.000)	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
electricity	789	282637	817	140605	44	—	1650	423242	
diesel	2440	728102	1321	208392	122	—	3883	936494	
both electricity & diesel	3	212	4	363	4	—	11	575	
all	3232	1010951	2142	349360	170	—	5544	1360311	

*see footnote on table 15

TABLE 18 : ESTIMATES OF NUMBER OF PUMPSETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE

GENERAL SAMPLE

PUNJAB

source of water	no. of pumpsets (00) reporting area irrigated by source of water					total
	well	tube well	rivers & streams	others	not recorded	
(0)	(1)	(2)	(3)	(4)	(5)	(6)
<i>owned singly</i>						
1. electricity	15	774	—	—	—	789
2. diesel	39	2393	3	5	—	2440
3. both electricity & diesel	—	3	—	5	—	3
4. all	54	3170	3	5	—	3232
<i>owned jointly</i>						
1. electricity	15	798	4	—	—	817
2. diesel	23	1296	2	—	—	1321
3. both electricity & diesel	—	4	—	—	—	4
4. all	38	2098	6	—	—	2142
<i>rented</i>						
1. electricity	—	44	—	—	—	44
2. diesel	7	115	—	—	—	122
3. both electricity & diesel	—	4	—	—	—	4
4. all	7	163	—	—	—	170
<i>total</i>						
1. electricity	30	1616	4	—	—	1650
2. diesel	69	3804	5	5	—	3883
3. both electricity & diesel	—	11	—	—	—	11
4. all	99	5431	9	5	—	5544

*see footnote on table 15

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEMS OF EXPENDITURE

GENERAL SAMPLE

PUNJAB

items of expenditure	amount (Rs. 000)
(0)	(1)
1. repair and maintenance expenses of bunds and field channeps	9150
2. water charges	124292
3. other expenses on independently owned lift irrigation	482565
4. share of expenses on joint arrangements	157200
5. receipt from sale of water	(-2740)
6. total	770467

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF HOUSEHOLDS SURVEYED FOR SCHEDULE 22-1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATING HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION.

GENERAL SAMPLE		RAJASTHAN
item	number	
(0)	(1)	(2)
1. number of sample villages allotted for survey	360	360
2. number of sample villages actually surveyed	360	360
3. number of sample households surveyed for Schedule 22-1	4117	4117
4. estimated number of total households a (00)	46385	46385
5. estimated number of cultivating households (00)	38872	38872
(i) usually using irrigation b	21691	21691
(ii) usually not using irrigation	17181	17181

a from listing Schedule—Draft Report No. 291, Part-I

b from Schedule 22-2—Draft Report No. 312

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION BY SIZE CLASS OF HOLDING.

GENERAL SAMPLE		RAJASTHAN											
size class of holding (hectare)	no. of households (00)	irrigable area (hectares 00)						area of land without irrigation facility (hectares 00)					
		area possessed			net area sown	area cropped more than once	gross cropped area	area possessed			net area sown	area cropped more than once	gross cropped area
		owned	leased in	total				owned	leased in	total			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
less than 0.5	1515	348	16	364	360	265	629	150	—	150	89	9	98
0.5—1.0	2843	1180	56	1236	1210	806	2035	834	20	854	585	96	681
1.0—2.0	5430	3991	90	4081	3953	2271	6277	3790	74	3864	2865	396	3261
2.0—4.0	6164	7650	329	7979	7620	3110	10811	9463	291	9754	7874	886	8760
4.0—10.0	4714	12097	584	12681	11836	2865	14755	15399	294	15693	13054	947	14001
10.0 & above	1025	5374	421	5795	5278	1467	6770	8928	168	9096	7407	202	7609
all	21691	30640	1496	32136	30267	10784	41277	38564	847	39411	31874	2536	34410

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION

GENERAL SAMPLE

RAJASTHAN

size class of holding (hectare)	flow					lift					flow & lift combined	
	canal	diversion scheme	tank	others	all	well	tube-well	river	tank	others		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	<i>number of households (00) reporting area irrigated</i>											
less than 0.5	211	19	219	—	425	1120	17	—	4	13	1154	1470
0.5—1.0	334	53	237	—	585	2319	75	8	29	17	2448	2758
1.0—2.0	982	47	375	—	1307	4186	160	65	43	56	4500	5267
2.0—4.0	1106	32	399	—	1439	4840	218	21	29	27	5128	5979
4.0—10.0	1070	57	212	13	1261	3471	285	52	8	17	3815	4573
10.0 & above	291	13	26	8	310	713	17	8	—	21	759	1043
all	3994	221	1468	21	5327	16649	772	154	113	151	17804	21090
	<i>net area irrigated (hectares 00)</i>											
less than 0.5	56	2	40	—	98	242	3	—	0	1	246	344
0.5—1.0	170	5	91	—	266	796	33	7	3	2	841	1107
1.0—2.0	859	5	177	—	1041	2339	107	43	9	14	2512	3553
2.0—4.0	1952	10	306	—	2268	3927	273	23	10	14	4247	6515
4.0—10.0	3947	36	342	30	4355	4873	726	109	2	27	5737	10092
10.0 & above	2439	21	67	11	2538	1635	96	8	—	57	1796	4334
all	9423	79	1023	41	10566	13812	1238	190	24	115	15379	25945

TABLE 3 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOLDING AND BY SOURCE OF POWER

GENERAL SAMPLE

RAJASTHAN

size class of holding (hectare)	no. of households (00) of reporting lift irrigation using						net area irrigated (hectares 00) by lift using					
	electricity	diesel	wind-mill	animal	human	all	electricity	diesel	wind-mill	animal	human	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
less than 0.5	112	52	—	969	21	1154	28	9	—	208	1	246
0.5—1.0	219	156	4	1989	80	2448	87	58	1	681	14	841
1.0—2.0	526	415	4	3484	71	4500	344	253	1	1904	10	2512
2.0—4.0	811	599	4	3680	34	5128	742	635	1	2862	7	4247
4.0—10.0	633	615	5	2537	52	3815	1251	1213	9	3251	13	5737
10.0 & above	134	185	—	435	5	759	410	665	—	721	—	1796
all	2435	2022	17	13094	236	17804	2862	2833	12	9627	45	15379

TABLE 4 : ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF THE SOURCE OF WATER FOR IRRIGATION

GENERAL SAMPLE		RAJASTHAN											
ownership of source of water for irrigation	net area irrigated (hectares 00) by type of irrigation												
	flow					lift						flow & lift combined	
	canal	diversion scheme	tank	others	all	well	tube-well	river	tank	others	all		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
government	9423	13	914	11	10361	13	—	179	2	108	302	10663	
co-operative	—	—	—	—	—	—	1	—	—	—	1	1	
private-joint	—	51	103	9	163	9286	474	11	22	2	9795	9958	
private-single	—	15	6	21	42	4513	763	—	0	5	5281	5323	
all	9423	79	1023	41	10566	13812	1238	190	24	115	15379	25945	

TABLE 5 : ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND BY SOURCE OF POWER

GENERAL SAMPLE		RAJASTHAN					
ownership of lifting equipment	net area irrigated (hectares 00) by source of power						
	electricity	diesel	wind-mill	animal drawn	human drawn	all	
	(1)	(2)	(3)	(4)	(5)	(6)	
government	30	14	—	4	—	48	
co-operative	4	14	—	—	—	18	
private-joint	1805	1273	3	3116	15	6212	
private-single	1023	1532	9	6507	30	9101	
all	2862	2833	12	9627	45	15379	

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION FACILITY BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASON FOR NOT IRRIGATION

size class of holding (hectare)	area (hectares 00) by reason for not irrigating			
	adequate rainfall	non-availabi- lity of water	other reasons	all reasons
	(1)	(2)	(3)	(4)
less than 0.5	7	1	2	10
0.5-1.0	44	26	38	108
1.0-2.0	82	118	177	377
2.0-4.0	442	100	174	716
4.0-10.0	600	834	536	1970
10.0 & above	269	495	377	1141
all	1444	1574	1304	4322

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF THE PLOTS, NET AREA IRRIGATED, NET AREA NOT IRRIGATED AND NET AREA SOWN BY SIZE CLASS OF PARCELS

size class of parcels (hectares)	number of parcels (00)	area (hectares 00)		
		total irrigable land	net area irrigated	net area not irrigated
		(2)	(3)	(4)
less than 0.05	4017	110	99	8
0.05-0.1	3700	258	226	26
0.1-0.2	7237	1027	914	89
0.2-0.3	7011	1674	1506	137
0.3-0.4	4293	1461	1292	136
0.4-0.5	3644	1590	1381	164
0.5-1.0	8364	5712	4904	547
1.0-2.0	4992	6735	5466	976
2.0 & above	3623	13569	10157	2239
all	46881	32136	25945	4322

Parcel : A plot or contiguously located plots having a common source of irrigation facility possessed by the household was treated as a parcel.

TABLE 8 : ESTIMATES OF AREA (I) UNDER CROP, (II) APPLIED WITH FERTILISER, (III) APPLIED WITH MANURE, (IV) AFFECTED BY PESTS AND DISEASES, (V) SPRAYED WITH PESTICIDES AND (VI) OF CROPS FINALLY DAMAGED AND VALUE OF (I) FERTILISER USED, (II) MANURE USED AND (III) PESTICIDES SPRAYED SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE											RAJASTHAN
crop/crop group	area (hectare 00)					value (Rs. 000) of					
	under crop	applied with fertiliser	applied with manure	affected by pests & diseases	sprayed with pesticides	of crops finally damaged	fertiliser used	manure used	pesticides sprayed		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
irrigated crops											
jowar	59	9	42	4	4	4	299	749	5		
bajra	351	62	94	128	23	13	1544	2122	233		
maize	360	112	188	27	11	1	2465	7680	31		
wheat	13104	8320	5081	3660	383	83	253705	121784	2713		
barley	4770	1168	2113	1408	48	2	18084	58529	148		
all cereals	19669	10567	7739	5608	733	103	332305	195558	5897		
all pulses	2550	422	422	723	113	1	9379	10016	561		
all oilseeds	690	301	241	244	73	20	6564	4531	469		
cotton	1661	1331	614	1139	993	247	51535	21281	13390		
other crop commodities	2296	819	710	394	97	8	25425	37433	694		
all other crops	1018	462	426	198	37	18	16997	15915	530		
all crops	27884	13902	10152	8306	2046	397	442205	284734	21541		
unirrigated crops											
jowar	6646	277	277	1036	35	—	3520	4139	16		
bajra	11175	277	3510	3482	11	—	2777	46984	67		
maize	5872	995	2694	435	18	1	19193	126158	115		
wheat	3149	98	598	372	8	23	470	2642	22		
barley	1144	20	98	262	—	—	500	2008	—		
all cereals	29121	1727	7354	5603	72	24	28995	186563	226		
a pulses	10000	408	754	1706	42	14	4133	7456	297		
all oilseeds	4189	617	803	713	5	1	9023	17394	42		
cotton	220	8	43	130	3	—	150	1609	83		
other crop commodities	3696	39	499	312	1	—	955	5199	8		
all other crops	577	31	222	28	2	—	495	1766	—		
all crops	47803	2830	9675	8492	125	39	43751	219987	656		

TABLE 9 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISER AND MANURE AND AREA AFFECTED BY PESTS AND DISEASES FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETY OF SEEDS.

GENERAL SAMPLE

RAJASTHAN

crop/crop group	irrigated crop area (hectares 00)				unirrigated crop area (hectares 00)			
	total	applied with fertiliser	applied with manure	affected by pests & diseases	total	applied with fertiliser	applied with manure	affected by pests & diseases
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ordinary variety								
jowar	59	9	42	4	6635	268	266	1036
bajra	325	47	85	115	10800	237	3338	3255
maize	357	109	185	27	5784	922	2657	419
wheat	8528	4579	3618	2773	3061	92	587	339
barley	4755	1157	2106	1399	1144	20	98	262
all cereals	14965	6713	6238	4627	28559	1599	7123	5327
all pulses	2549	422	422	723	9999	408	753	1706
all oilseeds	661	289	241	244	4180	616	797	705
cotton	856	551	319	466	219	8	42	129
other crop commodities	2244	768	667	394	3696	39	499	312
all other crops	1008	453	417	197	577	31	222	28
all crops	22283	9196	8304	6651	47230	2701	9436	8207
improved variety								
jowar	—	—	—	—	11	9	11	—
bajra	26	15	9	13	375	40	172	227
maize	3	3	3	—	88	73	57	16
wheat	4576	3741	1463	887	88	6	11	33
barley	15	11	7	9	—	—	—	—
all cereals	4704	3854	1501	981	562	128	231	276
all pulses	1	—	—	—	1	—	1	—
all oilseeds	29	12	—	—	9	1	6	8
cotton	805	780	295	673	1	—	1	1
other crop commodities	52	51	43	—	—	—	—	—
all other crops	10	9	9	1	—	—	—	—
all crops	5601	4706	1848	1655	573	129	239	285

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISERS HAVING NUTRIENTS N ONLY, NP ONLY, NPK ONLY AND OTHERS SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE						RAJASTHAN				
crop/crop group	irrigated crop area (hectares 00) applied with fertilisers having nutrients					unirrigated crop area (hectares 00) applied with fertilisers having nutrients.				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
jowar	5	—	—	4	9	86	189	2	—	277
bajra	55	7	—	—	62	265	5	—	7	277
maize	102	8	—	2	112	731	186	—	78	995
wheat	5299	2546	304	151	8320	80	18	—	—	98
barley	1021	101	4	44	1168	6	14	—	—	20
all cereals	6788	3270	308	201	10567	1209	431	2	85	1727
all pulses	118	257	21	26	422	67	220	2	119	408
all oil seeds	252	27	14	8	301	97	409	—	111	617
cotton	938	315	77	1	1331	8	—	—	—	8
other crop commodities	566	168	20	65	819	13	26	—	—	39
all other crops	272	153	13	24	462	27	4	—	—	31
all crops	8934	4190	453	325	13902	1421	1090	4	315	2830

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate, ammonium chloride and urea.

'NP' only means nitrogenous phosphate fertilisers like ammonium phosphate, ammonium phosphate sulphate, diammonium phosphate, urea ammonium phosphate and ammonium nitrate phosphate. It also includes phosphatic fertilisers like single super phosphate triple super phosphate and palfos in combination with nitrogenous fertilisers containing 'N' only.

'NPK' means nitrogenous phosphatic potash fertilisers like nitrophosphate and NPK complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NP' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROPGROUP AND TYPE OF IRRIGATION

GENERAL SAMPLE												RAJASTHAN
crop/crop group	area (hectares 00) under irrigated crop by type of irrigation											
	flow					lift					flow and lift combined	
	canal	diversion scheme	tank	others	total	well	tubewell	river	tank	others		total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
jowar	9	—	—	—	9	49	1	—	—	—	50	59
bajra	139	—	4	—	143	198	7	—	—	3	208	351
maize	10	—	53	—	63	292	2	—	3	—	297	360
wheat	4391	26	432	12	4861	7108	915	144	15	61	8243	13104
barley	361	38	280	16	695	3837	224	5	7	2	4075	4770
all cereals	5767	69	874	28	6738	11542	1149	149	25	66	12931	19669
all pulses	1590	15	174	9	1788	627	92	13	—	30	762	2550
all oilseeds	363	—	22	—	385	228	77	—	—	—	305	690
cotton	1313	—	20	—	1333	307	—	—	2	19	328	1661
other crop commodities	1027	—	10	4	1041	1211	17	4	—	23	1255	2296
all other crops	87	2	51	1	141	836	4	31	2	4	877	1018,
all crops	10147	86	1151	42	11426	14751	1339	197	29	142	16458	27884

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND NUMBER OF TIMES IRRIGATED

GENERAL SAMPLE		RAJASTHAN				
crop/crop group	crop area (hectares 00) irrigated					total
	once	twice	thrice	more than thrice	not recorded	
(0)	(1)	(2)	(3)	(4)	(5)	(6)
jowar	7	—	6	45	1	59
bajra	190	68	61	24	8	351
maize	203	70	23	54	10	360
wheat	490	1130	2122	9362	—	1310
barley	203	366	1094	3076	31	4770
all cereals	1216	1868	3529	12962	94	19669
all pulses	1311	634	301	278	26	2550
all oilseeds	226	89	139	228	8	690
cotton	35	137	205	1275	9	1661
other crop commodities	330	287	206	1442	31	2296
all other crops	57	69	97	754	41	1018
all crops	3175	3084	4477	16939	209	27884

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROPS WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUP

GENERAL SAMPLE		RAJASTHAN		
crop/crop group	area (hectares 00) under irrigated crop			total
	with subsidiary irrigation	without subsidiary irrigation		
(0)	(1)	(2)	(3)	
jowar	—	59	59	
bajra	7	344	351	
maize	2	358	360	
wheat	167	12937	13104	
barley	67	4703	4770	
all cereals	259	19410	19669	
all pulses	22	2528	2550	
all oilseeds	—	690	690	
cotton	72	1589	1661	
other crop commodities	35	2261	2296	
all other crops	8	1010	1018	
all crops	396	27488	27884	

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES-3 YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE

RAJASTHAN

items of asset	value (Rs. 000) of agricultural implements, irrigation equipments and draught animals by size class of holding (hectare)						
	less than 0.5	0.5-1.0	1.0-2.0	2.0-4.0	4.0-10.0	10.0 & above	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
agricultural implements							
1. tractor	—	2973	33008	99379	332025	353789	821174
2. power tiller	—	—	682	2546	3466	5507	12201
3. sprayer	—	—	—	—	442	479	921
4. duster	—	—	—	7	402	—	409
5. thresher	—	—	104	3302	9237	21072	33715
6. cane crusher	455	1818	3129	3974	12239	869	22484
7. oil crusher	—	—	209	—	—	—	209
8. all	455	4791	37132	109208	357811	381716	891113
irrigation equipments							
1. electric pumps	6757	19250	84204	140344	179950	66302	496807
2. diesel pumps	2478	14801	50051	135136	153414	67938	423818
3. wind-mill	—	—	—	669	—	—	669
4. moat	5282	16652	40445	53462	36245	8368	160454
5. persian wheel	3265	17742	26990	38765	45332	9224	141318
6. others (animal driven)	227	337	155	523	4207	4387	9836
7. counter poise	9	12	21	105	—	23	170
8. manual pumps	—	—	—	—	—	—	—
9. others	31	169	159	44	43	—	446
10. all	18049	68963	202025	369048	419191	156242	1233518
draught animals							
1. cattles	96275	248628	637837	931677	942694	295207	3152318
2. buffaloes	702	2903	8490	11047	5066	3005	31213
3. all	96977	251531	646327	942724	947760	298212	3183531
total	115481	325285	885484	1420980	1724762	836170	5308162

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND NUMBER OF PUMPSETS POSSESSED BY SIZE CLASS OF HOUSEHOLD HOLDING.

GENERAL SAMPLE

RAJASTHAN

size class of holding (hectare)	no. of households reporting pumpsets (00)	no. of pumpsets* (00)
(0)	(1)	(2)
less than 0.5	143	147
0.5-1.0	251	287
1.0-2.0	756	796
2.0-4.0	1229	1394
4.0-10.0	1082	1253
10.0 & above	294	351
all	3755	4228

*In this and subsequent tables on number of pumpsets, the number includes those possessed jointly as well as on rent. In the case of jointly possessed, instead of the household share of the number possessed, the total number possessed jointly has been counted as possessed by the same household. Hence the estimated number of pumpsets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE OF POWER AND BY HORSE POWER

GENERAL SAMPLE		RAJASTHAN			
horse power	no. of pumpsets* (00) having source of power				total
	electricity	diesel	both electricity & diesel		
(0)	(1)	(2)	(3)	(4)	
less than 1.0	5	12	—	17	
1.0—2.0	—	—	—	—	
2.0—3.0	—	—	—	—	
3.0—4.0	494	19	—	513	
4.0—5.0	—	—	—	—	
5.0 & above	2004	1563	9	3576	
no recorded	30	92	—	122	
all	2533	1686	9	4228	

*see footnote on table 15.

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS* AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER.

GENERAL SAMPLE		RAJASTHAN							
source of power	possession type								
	owned singly		owned jointly		rented		total		
	no. of pumpsets (00)	hh's share of value of owned equipments (Rs.000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs.000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs.000)	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
electricity	444	182070	2019	245489	70	—	2533	427559	
diesel	496	241518	937	151869	253	—	1686	393387	
both electricity & diesel	4	1605	—	—	5	—	9	1605	
all	944	425193	2956	397358	328	—	4228	822551	

*see footnote on table 15.

TABLE 18 : ESTIMATES OF NUMBER OF PUMPSETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE.

GENERAL SAMPLE

RAJASTHAN

source of power (0)	no. of pumpsets (00) reporting area irrigated by source of water					total (6)
	well (1)	tubewell (2)	rivers & streams (3)	others (4)	not recorded (5)	
owned singly						
1. electricity	400	9	35	—	—	444
2. diesel	309	187	—	—	—	496
3. both electricity & diesel	—	4	—	—	—	4
4. all	709	200	35	—	—	944
owned jointly						
1. electricity	1917	71	26	5	—	2019
2. diesel	737	187	9	4	—	937
3. both electricity & diesel	—	—	—	—	—	—
4. all	2654	258	35	9	—	2956
rented						
1. electricity	40	9	17	4	—	70
2. diesel	132	9	103	9	—	253
3. both electricity & diesel	5	—	—	—	—	5
4. all	177	18	120	13	—	328
total						
1. electricity	2357	89	78	9	—	2533
2. diesel	1178	383	112	13	—	1686
3. both electricity & diesel	5	4	—	—	—	9
4. all	3540	476	190	22	—	4228

*see footnote on table 15

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEMS OF EXPENDITURE.

GENERAL SAMPLE

RAJASTHAN

items of expenditure (0)	amount(Rs.000) (1)
1. repair and maintenance expenses of bunds and field channels	65383
2. water charges	91067
3. other expenses on independently owned lift irrigation	162291
4. share of expenses on joint arrangements	142802
5. receipt from sale of water	(-11929)
6. total	449614

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF SAMPLE HOUSEHOLDS SURVEYED FOR SCHEDULE 22-1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATOR HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION.

GENERAL SAMPLE		TAMIL NADU	
item	(0)	(1)	number
1. number of sample villages allotted for survey			672
2. number of sample villages actually surveyed			672
3. number of sample households surveyed for Schedule 22-1			8238
4. estimated number of total households ^a (00)			69015
5. estimated number of cultivating households(00)			42803
(i) usually using irrigation			30654
(ii) usually not using irrigation ^b			12149

a from listing Schedule-Draft Report No. 291, Part-I.

b from Schedule 22-2—Draft Report No. 312.

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION FACILITY BY SIZE CLASS OF HOLDING.

GENERAL SAMPLE		TAMIL NADU											
size class of holding (hectare)	no. of households (00) usually using irrigation	irrigable land (hectares 00)					land without irrigation facility (hectares 00)						
		area possessed			net area sown	area cropped more than once	gross cropped area	area possessed			net area sown	area cropped more than once	gross cropped area
owned	leased-in	total	owned	leased-in				total					
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
less than 0.5	10500	1873	459	2332	2301	823	3155	410	25	435	270	17	290
0.5—1.0	7623	3386	784	4170	3884	1245	5184	1325	76	1401	1132	65	1235
1.0—2.0	6936	5344	1021	6365	5819	2130	8082	3163	147	3310	2682	122	2819
2.0—4.0	3776	5408	747	6155	5551	1843	7468	4934	1421	6355	3153	228	3624
4.0—10.0	1632	4875	371	5246	4603	1665	6268	3765	118	3883	3142	169	3337
10.0 & above	18	1244	98	1342	1079	193	1272	1189	47	1236	846	14	879
all	30654	22130	3480	25610	23237	7899	31429	14786	1834	16620	11225	615	12184

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION

GENERAL SAMPLE													TAMIL NADU	
size class of holding (hectare)	flow					lift					flow and lift combined			
	canal	diversion scheme	tank	others	all	well	tubewell	river	tank	others		all		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
number of households (00) reporting area irrigated														
less than 0.5		2103	47	2993	60	5199	3514	803	178	217	571	5249	10323	
0.5-1.0		1431	19	1859	25	3321	3845	461	53	86	117	4520	7588	
1.0-2.0		1338	22	1386	9	2745	4140	337	56	101	102	4665	6927	
2.0-4.0		720	13	825	16	1567	2306	202	19	47	67	2595	3768	
4.0-10.0		360	13	355	6	732	1068	108	22	32	27	1212	1629	
10.0 & above		42	—	56	—	98	123	5	—	3	—	123	187	
all		5994	114	7474	116	13662	14996	1916	328	486	884	18364	30422	
net area irrigated (hectares 00)														
less than 0.5		472	6	638	15	1131	736	184	15	19	28	982	2113	
0.5-1.0		805	9	834	8	1656	1535	258	12	22	43	1870	3526	
1.0-2.0		1346	9	890	6	2251	2276	327	27	40	10	2680	4931	
2.0-4.0		1514	10	816	14	2354	2199	330	11	11	44	2595	4949	
4.0-10.0		1347	7	548	11	1913	1696	315	21	12	30	2074	3987	
10.0 & above		306	—	148	—	454	307	16	—	1	—	324	778	
all		5790	41	3874	54	9759	8749	1430	86	105	155	10525	20284	

TABLE 3 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOUSEHOLD HOLDING AND BY SOURCE OF POWER.

GENERAL SAMPLE													TAMIL NADU	
size class of holding	no. of households (00) reporting lift irrigation using						net area irrigated (hectares 00) by lift using							
	electricity	diesel	windmill	animal	human	all	electricity	diesel	windmill	animal	human	all		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		
less than 0.5	1557	284	—	2015	1393	5249	399	52	—	433	98	982		
0.5-1.0	1675	378	—	2077	390	4520	933	163	—	714	60	1870		
1.0-2.0	2173	479	—	1597	416	4665	1640	316	—	646	78	2680		
2.0-4.0	1434	306	3	634	218	2595	1866	296	26	347	60	2595		
4.0-10.0	718	201	—	206	87	1212	1646	250	—	141	37	2074		
10.0 & above	90	17	—	10	6	123	291	29	—	3	1	324		
all	7647	1665	3	6539	2510	18364	6775	1106	26	2284	334	10525		

TABLE 4 : ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF THE SOURCE OF WATER FOR IRRIGATION.

GENERAL SAMPLE													TAMIL NADU	
ownership of source of water for irrigation	net area irrigated (hectares 00) by type of irrigation													
	flow					lift					flow & lift			
	canal	diversion scheme	tank	others	all	well	tubewell	river	tank	others	all	combined		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		
government	5777	41	3868	34	9720	26	1	73	87	59	246	9966		
co-operative	—	—	—	—	—	—	—	—	—	—	—	—		
private-joint	2	—	3	1	6	3070	111	10	1	1	3193	3199		
private-single	11	—	3	19	33	5653	1318	3	17	95	7086	7119		
all	5790	41	3874	54	9759	8749	1430	86	105	155	10525	20284		

TABLE 5 : ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND BY SOURCE OF POWER.

GENERAL SAMPLE							TAMIL NADU	
ownership of lifting equipment	net area irrigated (hectares 00) by source of power							
	electricity	diesel	wind-mill	animal drawn	human drawn	all		
	(1)	(2)	(3)	(4)	(5)	(6)		
government	30	1	—	1	25	57		
co-operative	1	2	—	—	—	3		
private-joint	1836	298	26	472	3	2635		
private-single	4908	805	—	1811	306	7830		
all	6775	1106	26	2284	334	10525		

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION FACILITY, BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASON FOR NOT IRRIGATION.

TAMIL NADU

GENERAL SAMPLE

size class of holding (hectare)	area (hectare 00) by reason for not irrigating			
	adequate rainfall (1)	non-availability of water (2)	other reasons (3)	all reasons (4)
less than 0.5	4	166	18	188
0.5-1.0	2	302	54	358
1.0-2.0	9	809	70	888
2.0-4.0	5	371	226	602
4.0-10.0	1	562	53	616
10.0 & above	—	301	—	301
all	21	2511	421	2953

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF THE PLOTS, NET AREA IRRIGATED, NET AREA NOT IRRIGATED AND NET AREA SOWN BY SIZE CLASS PARCELS.

TAMIL NAD

GENERAL SAMPLE

size class of parcels (hectares)	area (hectares 00)				
	number of parcels (00) (1)	total irrigable land (2)	net area irrigated (3)	net area not irrigated (4)	net area sown (5)
less than 0.05	5316	126	114	9	123
0.05-0.1	6064	441	384	29	413
0.1-0.2	11624	1636	1444	140	1584
0.2-0.3	10957	2604	2335	166	2501
0.3-0.4	4238	1428	1235	108	1343
0.4-0.5	7636	3199	2760	337	3097
0.5-1.0	9645	7967	6548	625	7173
1.0-2.0	3981	4109	2961	796	3757
2.0 & above	1277	4100	2503	743	3246
all	60738	25610	20284	2953	23237

Parcel : A plot or contiguously located plots having a common source of irrigation facility possessed by the household was treated as a parcel.

TABLE 8: ESTIMATES OF AREA (I) UNDER CROP, (II) APPLIED WITH FERTILISER, (III) APPLIED WITH MANURE, (IV) AFFECTED BY PESTS AND DISEASES, (V) SPRAYED WITH PESTICIDES AND (VI) OF CROPS FINALLY DAMAGED AND VALUE OF (I) FERTILISER USED, (II) MANURE USED AND (III) PESTICIDES SPRAYED SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE

TAMIL NADU

crop/crop group	area (hectares 00)						value (Rs. 000)		
	under crop	applied with fertiliser	applied with manure	affected by pests and diseases	sprayed with pesticides	of crop finally damaged	fertiliser used	manure used	pesticides used
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
irrigated crops									
paddy	18788	17055	15675	11117	11547	823	744452	315656	9
jowar	1029	325	591	209	186	28	8744	16544	9
all cereals	21490	18269	17477	11627	11993	885	776893	359193	9
all pulses	102	5	16	68	67	—	329	396	
all oilseeds	1622	674	934	483	409	37	19627	21012	
sugarcane	568	513	393	129	114	5	53048	14787	
cotton	513	454	286	379	389	27	34490	8631	3
other crop/commodity	967	392	560	191	178	24	17560	23979	1
all other crops	499	362	404	252	255	52	18680	14282	
all crops	25761	20669	20070	13129	13405	1030	920627	442280	14
unirrigated crops									
paddy	1321	522	1048	301	186	20	8605	18785	
jowar	3119	152	1363	305	90	40	920	16650	
all cereals	8553	890	4324	758	360	93	12152	65910	
all pulses	2331	7	232	77	9	3	87	2727	
all oilseeds	4496	384	3001	728	352	25	7157	42809	
sugarcane	96	90	27	21	21	—	329	885	
cotton	494	50	243	50	52	5	992	3350	
other crop/commodity	1618	82	367	71	70	14	2686	10172	
all other crops	264	75	132	38	25	12	1208	2582	
all crops	17852	1578	8326	1743	889	152	24611	128435	

TABLE 9 : ESTIMATES OF AREA UNDER CROP, AREA APPLIED WITH FERTILISER AND MANURE, AND AREA AFFECTED BY PESTS AND DISEASES FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETY OF SEEDS.

GENERAL SAMPLE

TAMIL NADU

crop/crop group	irrigated crop area (hectares 00)				unirrigated crop area (hectares 00)			
	total	applied with fertiliser	applied with manure	affected by pests & diseases	total	applied with fertiliser	applied with manure	affected by pests & diseases
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ordinary variety								
paddy	8109	6808	7258	3446	1022	462	816	246
jowar	936	269	565	177	3029	139	1338	283
all cereals	10580	7877	8959	3867	8113	808	4038	680
all pulses	99	2	14	67	2324	7	232	77
all oilseeds	1547	650	882	443	4373	383	2933	707
sugarcane	423	374	306	101	80	74	26	20
cotton	175	127	128	93	408	7	213	22
other crop commodities	958	385	551	189	1617	81	367	70
all other crops	499	362	404	252	258	74	131	38
all crops	14281	9777	11244	5012	17173	1434	7940	1614
improved variety								
paddy	10679	10247	8417	7671	299	60	232	55
jowar	93	56	26	32	90	13	25	22
all cereals	10910	10392	8518	7760	440	82	286	78
all pulses	3	3	2	1	7	—	—	—
all oilseeds	75	24	52	40	123	1	68	21
sugarcane	145	139	87	28	16	16	1	1
cotton	338	327	158	286	86	43	30	28
other crop commodities	9	7	9	2	1	1	—	1
all other crops	—	—	—	—	6	1	1	—
all crops	11480	10892	8826	8117	679	144	386	129

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISERS HAVING NUTRIENTS N ONLY, NP ONLY, NPK ONLY AND OTHERS SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE						TAMIL NADU				
crop/crop group	irrigated crop area (hectares 00) applied with fertilisers having nutrients					unirrigated crop area (hectares 00) applied with fertilisers having nutrients				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
paddy	5059	1588	9224	1184	17055	305	29	159	29	522
jowar	161	38	107	19	325	67	32	48	5	152
all cereals	5709	1653	9608	1299	18269	526	62	221	81	890
all pulses	—	—	5	—	5	2	1	4	—	7
all oilseeds	59	21	383	211	674	46	135	159	44	384
sugarcane	80	14	284	135	513	12	—	42	36	90
cotton	62	47	266	79	454	25	—	18	7	50
Other crop commodities	154	19	155	64	392	6	2	56	18	82
all other crops	157	25	162	18	362	46	—	28	1	75
all crops	6221	1779	10863	1806	20669	663	200	528	187	1578

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate ammonium chloride and urea.

'NP' only means nitrogenous phosphate fertilisers like ammonium phosphate, ammonium phosphatic sulphate, diammonium phosphate, urea ammonium phosphate and ammonium nitrate phosphate. It also includes phosphate fertilisers like single super phosphate, triple super phosphate and palfos in combination with nitrogenous fertilisers containing 'N' only.

'NPK' means nitrogenous phosphatic potash fertilisers like nitrophosphate and NPK complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NP' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND TYPE OF IRRIGATION. GENERAL SAMPLE TAMIL NADU

crop/crop group	area (hectares 00) under irrigated crop by type of irrigation											
	flow					lift						flow & lift combined
	canal	diversion scheme	tank	others	total	well	tube-well	river	tank	others	total	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
paddy	6538	55	4361	56	11010	6295	1264	70	72	77	7778	18788
jowar	56	—	5	30	91	932	3	1	—	2	938	1029
all cereals	6683	57	4446	87	11273	8570	1402	82	78	85	10217	21490
all pulses	7	—	8	—	15	46	5	—	10	26	87	102
all oilseeds	219	—	21	9	249	1049	271	14	13	26	1373	1622
sugarcane	52	—	7	—	59	426	77	6	—	—	509	568
cotton	54	—	6	—	60	415	38	—	—	—	453	513
other crop commodities	38	—	22	—	60	780	85	9	8	25	907	967
all other crops	6	—	30	—	36	448	4	5	2	4	463	499
all crops	7059	57	4540	96	11752	11734	1882	116	111	166	14009	25761

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CRNP/CROP GROUP AND BY NUMBER OF TIMES IRRIGATED

GENERAL SAMPLE		TAMIL NADU				
crop/crop group	crop area (hectares 00) irrigated					
	once	twice	thrice	more than thrice	total	
(0)	(1)	(2)	(3)	(4)	(5)	
paddy	155	140	143	18350	18788	
jowar	20	78	48	883	1029	
all cereals	203	278	255	20754	21490	
all pulses	9	3	—	90	102	
all oilseeds	25	105	109	1383	1622	
sugarcane	1	5	1	561	568	
cotton	9	5	9	490	513	
other crop commodities	8	19	33	907	967	
all other crops	13	48	29	409	499	
all crops	268	463	436	24594	25761	

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROPS WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUPS

GENERAL SAMPLE		TAMIL NADU		
crop/crop group	area (hectares 00) under irrigated crop			
	with subsidiary irrigation	without subsidiary irrigation	total	
(0)	(1)	(2)	(3)	
paddy	2621	16167	18788	
jowar	18	1011	1029	
all cereals	2772	18718	21490	
all pulses	67	35	102	
all oilseeds	124	1498	1622	
sugarcane	105	463	568	
cotton	74	439	513	
other crop commodities	44	923	967	
all other crops	18	481	499	
all crops	3204	22557	25761	

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS ADULT CATTLES AND BUFFALOES 3 (YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOUSEHOLD HOLDING.

GENERAL SAMPLE		TAMIL NADU						
items of assets (0)	value of (Rs. 000) of agricultural implements, irrigation equipments and draught animals by size class of holding							
	less than 0.5 (1)	0.5-1.0 (2)	1.0-2.0 (3)	2.0-4.0 (4)	4.0-10.0 (5)	10.0 above (6)	all (7)	
agricultural implements								
1. tractor	9500	—	—	44549	112545	30107	196701	
2. power tiller	—	—	3190	3469	26840	1595	35094	
3. sprayer	112	255	798	2857	4041	3048	11111	
4. duster	—	105	—	399	80	183	767	
5. thresher	—	—	—	—	26	—	26	
6. cane crusher	—	—	2273	2239	4943	2233	11688	
7. oil crusher	—	—	336	—	—	—	336	
8. all	9612	360	6597	53513	148475	37166	255723	
irrigation equipments								
1. electric pumps	98954	250218	511658	495927	355315	74095	1786167	
2. diesel pumps	18843	58444	112585	110931	86851	11301	398955	
3. wind-mill	—	—	—	—	—	—	—	
4. moat	16933	23940	21128	11040	5291	729	79061	
5. persion wheel	47	383	—	585	710	—	1725	
6. other (animal drawn)	2293	1799	1089	342	374	64	5961	
7. countar poise	1907	906	1853	1405	1085	141	7297	
8. manual pumps	834	95	476	168	92	—	1665	
9. others	1375	639	539	554	312	—	3419	
all	141186	336424	649328	620952	450030	86330	2284250	
draught animals								
1. cattles	134127	230346	310008	270048	204404	56572	1205505	
2. buffaloes	3774	9376	8515	5731	3042	798	31236	
all	137901	239722	318523	275779	207446	57370	1236741	
total	288699	576506	974448	950244	805951	180866	3776714	

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND NUMBER OF PUMPSETS POSSESSED BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE		TAMIL NADU	
size class of holding (hectare) (0)		no. of households reporting pumpsets (00)	no. of pumpsets* (00)
		(1)	(2)
less than 0.5		1071	1090
0.5-1.0		1988	2150
1.0-2.0		2828	3244
2.0-4.0		1973	2534
4.0-10.0		1098	1798
10.0 & above		120	280
all		9078	11096

*In this and subsequent tables on number of pumpsets, the number includes those possessed jointly as well as on rest. In the case of jointly possessed instead of the household share of the number possessed the total numbers possessed jointly has less counted as possessed by the sample household. Hence, the estimated number of pumpsets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE OF POWER AND HORSE POWER

GENERAL SAMFLE		TAMIL NADU			
horse power	no. of pumpsets *(00) having source of power				
	electricity	diesel	both electricity & diesel	total	
(0)	(1)	(2)	(3)	(4)	
less than 1.0	78	30	26	134	
1.0-2.0	8	—	—	8	
2.0-3.0	—	41	—	41	
3.0-4.0	3640	206	6	3852	
4.0-5.0	—	32	—	32	
5.0 and above	5395	1615	19	7029	
all	9121	1924	51	11096	

*see footnote in table 15.

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS* AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER.

GENERAL SAMPLE		TAMIL NADU						
source of power	owned singly		owned jointly		rented		total	
	no. of pumpsets (00)	h. h's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	h. h's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	h. h's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	h. h's share of value of owned equipments (Rs. 000)
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
electricity	4209	1225012	4703	540395	209	—	9121	1765407
diesel	1054	315042	820	94832	50	—	1924	409874
both electricity & diesel	20	1910	23	1414	8	—	51	3324
all	5283	1541964	5546	636641	267	—	11096	2178605

*see footnote table 15.

TABLE 18 : ESTIMATES OF NUMBER OF PUMPSETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE.

TAMIL NADU

GENERAL SAMPLE

source of power	no. of the pumpsets (00) reporting area irrigated by source of water				
	well	tube-well	rivers and streams	others	total
(0)	(1)	(2)	(3)	(4)	(5)
owned singly					
electricity	3689	483	8	29	4209
diesel	854	154	25	21	1054
both electricity and diesel	13	5	—	2	20
all	4556	642	33	52	5283
owned jointly					
electricity	4501	129	—	73	4703
diesel	730	24	45	21	820
both electricity and diesel	14	8	—	1	23
all	5245	161	45	95	5546
rented					
electricity	201	5	—	3	209
diesel	25	10	6	9	50
both electricity and diesel	8	—	—	—	8
all	234	15	6	12	267
total					
electricity	8391	617	8	105	9121
diesel	1609	188	76	51	1924
both electricity and diesel	35	13	—	3	51
all	10035	818	84	159	11096

*see footnote in table 15.

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEMS OF EXPENDITURE

TAMIL NADU

GENERAL SAMPLE

items of expenditure	amount (Rs. 000)
(0)	(1)
1. repair and maintenance expenses of bunds and field channels	115376
2. water charges	112005
3. other expenses on independently owned lift irrigation	121191
4. share of expenses on joint arrangements	169207
5. receipt from sale of water	(—) 18103
6. total	499676

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF HOUSEHOLDS SURVEYED FOR SCHEDULE 22-1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATING HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION.

GENERAL SAMPLE		UTTAR PRADESH
item		number
(0)		(1)
1. number of sample villages allotted for survey		968
2. number of sample villages actually surveyed		968
3. number of sample households surveyed for Schedule 22-1		16920
4. estimated number of total households ^a (00)		150277
5. estimated number of cultivating households (00)		117856
(i) usually using irrigation		98079
(ii) usually not using irrigation ^b		19777

a from listing Schedule—Draft Report No. 291, Part-I.

b from Schedule 22-2—Draft Report No. 312.

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION FACILITY BY SIZE CLASS OF HOLDING.

GENERAL SAMPLE		UTTAR PRADESH											
size class of holding (hectare)	no. of households (00) with irrigable land	irrigable area (hectares 00)						area of land without irrigation facility (hectares 00)					
		area possessed			net area sown	area cropped more than once	gross cropped area	area possessed			net area sown	area cropped more than once	gross cropped area
		owned	leased-in	total				owned	leased-in	total			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
less than 0.5	29977	7047	223	7270	7196	5110	12356	926	49	975	533	113	646
0.5 - 1.0	24158	14776	501	15277	15186	9350	24617	2381	198	2579	1996	438	2435
1.0 - 2.0	24652	28028	821	28849	28542	14984	43664	5302	306	5608	4697	590	5287
2.0 - 4.0	13780	29294	1017	30311	25660	13826	43810	6737	348	7085	6027	641	6668
4.0 - 10.0	5020	19371	344	19715	19422	7484	26953	7344	133	7477	6693	508	7202
10.0 & above	492	3586	196	3782	3711	1398	5118	2511	21	2532	2070	36	2106
all	98079	102102	3102	105204	99617	52152	156518	25201	1055	26256	22016	2326	24344

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION.

GENERAL SAMPLE

UTTAR PRADESH

size class of holding (hectare)	flow					lift					flow & lift combined	
	canal	diver- sion scheme	tank	others	all	well	tube well	river	tank	others		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
number of households (00) reporting area irrigated												
less than 0.5	5515	525	26	23	5640	8335	13288	1044	3461	918	24435	29686
0.5—1.0	5761	572	39	34	5901	6658	11839	565	3063	904	19887	23923
1.0—2.0	6405	343	32	69	6516	6670	13582	586	2704	854	20725	24412
2.0—4.0	4445	122	10	31	4517	3103	8173	306	1296	414	11235	13646
4.0—10.0	1596	28	10	5	1598	813	3065	111	347	132	3860	4971
10.0 & above	267	—	—	—	267	65	215	63	17	16	311	488
all	23989	1590	117	162	24439	25644	50162	2675	10888	3238	80453	97126
net area irrigated (hectares 00)												
less than 0.5	1167	98	7	6	1278	1537	2685	196	522	142	5082	6360
0.5—1.0	2853	135	11	10	3009	2553	5604	220	864	285	9526	12535
1.0—2.0	5256	113	19	41	5429	4205	11372	335	1255	454	17621	23050
2.0—4.0	6410	101	17	54	6582	3030	12784	305	865	342	17326	23908
4.0—10.0	3774	123	19	1	3917	1018	9368	161	411	261	11219	15136
10.0 & above	1139	—	—	—	1139	142	1406	91	38	65	1742	2881
all	20599	570	73	112	21354	12485	43219	1308	3955	1549	62516	83870

TABLE 3 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOLDING AND BY SOURCE OF POWER

GENERAL SAMPLE

UTTAR PRADESH

size class of holding (hectare)	no. of households (00) reporting lift irrigation using						net area irrigated (hectares 00) by lift using					
	electricity	diesel	wind- mill	animal	human	all	electricity	diesel	wind- mill	animal	human	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
less than 0.5	7950	5343	5	4152	6984	24434	1745	1128	1	958	1250	5082
0.5—1.0	5906	5523	23	3630	4805	19887	3254	2681	13	1715	1863	9526
0.1—2.0	6214	6680	—	4124	3708	20726	6066	5895	—	3265	2395	17621
2.0—4.0	3420	4280	5	2019	1510	11234	6462	6897	13	2476	1478	17326
4.0—10.0	1264	1722	—	506	368	3860	4154	5774	—	827	464	11219
10.0 & above	126	129	—	47	10	312	804	707	—	155	76	1742
all	24880	23677	33	14478	17385	80453	22485	23082	27	9396	7526	62516

TABLE 4 : ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF THE SOURCE OF WATER FOR IRRIGATION

GENERAL SAMPLE

UTTAR PRADESH

ownership of source of water for irrigation	net area irrigated (hectares 00) by type of irrigation											
	flow					lift						flow and lift com- bined
	canal	diver- sion scheme	tank	others	all	well	tube well	river	tank	others	all	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
government	20111	38	57	46	20252	66	5979	1244	3450	1211	11950	32202
co-operative	—	—	—	—	—	—	94	—	16	11	121	121
private-joint	483	531	11	35	1060	1649	5766	3	195	70	7683	8743
private-single	5	1	5	31	42	10770	31380	61	294	257	42762	42804
all	20599	570	73	112	21354	12485	43219	1308	3955	1549	62516	83870

TABLE 5 : ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND BY SOURCE OF POWER

GENERAL SAMPLE

UTTAR PRADESH

ownership of lifting equipment	net area irrigated (hectares 00) by source of power					
	electricity	diesel	windmill	animal drawn	human drawn	all
	(1)	(2)	(3)	(4)	(6)5	(6)
government	6300	30	—	30	221	6581
co-operative	101	90	—	2	11	204
private-joint	2894	3269	22	1278	265	7728
private-single	13190	19693	5	8086	7029	48003
all	22485	23082	27	9396	7526	62516

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION FACILITY BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASONS FOR NOT IRRIGATION.

GENERAL SAMPLE	area (hectares 00) by reason for not irrigating				UTTAR PRADESH
	size class of holding (hectare)	adequate rainfall	non-availability of water	other reasons	
(0)	(1)	(2)	(3)	(4)	
less than 0.5	211	105	468	784	
0.5—1.0	575	235	1155	1965	
1.0—2.0	1164	537	2425	4126	
2.0—4.0	1369	575	2838	4782	
4.0—10.0	805	379	2209	3393	
10.0 & above	60	92	545	697	
all	4184	1923	9640	15747	

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF THE PLOTS, NET AREA IRRIGATED, NET AREA NOT IRRIGATED AND NET AREA SOWN BY SIZE CLASS OF PARCELS

GENERAL SAMPLE	area (hectares 00)					UTTAR PRADESH
	size class of parcels (hectares)	number of parcels (00)	total irrigable land	net area irrigated	net area not irrigated	
(0)	(1)	(2)	(3)	(4)	(5)	
less than 0.05	26643	735	660	52	712	
0.05—0.1	40185	2834	2125	527	2652	
0.1—0.2	53026	7510	5785	1293	7078	
0.2—0.3	34071	8155	6598	1248	7846	
0.3—0.4	22159	7645	6187	1111	7298	
0.4—0.5	21785	10071	8128	1447	9575	
0.5—1.0	37393	25990	20981	3689	24670	
1.0—2.0	18436	25326	20310	3734	24044	
2.0 & above	5304	16935	13096	2646	15742	
all	259002	105201	83870	15747	99617	

Parcel : A plot or contiguously located plots having a common source of irrigation facility possessed by the household was treated as a parcel.

TABLE 8 : ESTIMATES OF AREA (I) UNDER CROP (II) APPLIED WITH FERTILISER, (III) APPLIED WITH MANURE (IV) AFFECTED BY PESTS AND DISEASES, (V) SPRAYED WITH PESTICIDES AND (VI) OF CROPS FINALLY DAMAGED AND VALUE OF (I) FERTILISER USED, (II) MANURE USED AND (III) PESTICIDES SPRAYED SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROPS/CROP GROUP.

GENERAL SAMPLE

UTTAR PRADESH

crop/crop group	area (hectares 00)						value (Rs. 000) of		
	under crop	applied with fertiliser	applied with manure	affected by pests & diseases	sprayed with pesticides	of crop finally damaged	fertiliser used	manure used	pesticides sprayed
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
irrigated crops									
paddy	16680	9024	8252	1779	874	120	192974	77117	2792
bajra	503	151	203	4	2	—	2020	3006	5
maize	2647	1704	1559	45	2	2	33154	30948	41
wheat	53725	34945	22003	4711	709	66	852500	212119	1883
all cereals	79451	47130	34047	6672	1599	190	1107038	340488	4740
all pulses	6326	536	1400	353	38	5	7588	11971	178
all oil seeds	1507	529	505	80	13	8	13334	7000	56
sugarcane	10288	7464	6949	1978	1215	29	288938	132805	9832
other crop commodities	5502	2066	2003	99	26	9	75030	43525	1017
all other crops	456	239	164	10	11	3	13331	3226	59
all crops	103530	57964	45068	9192	2902	244	1505259	539015	15882
unirrigated crops									
paddy	21722	4444	9381	1586	884	163	102068	69735	1848
bajra	8612	1135	2374	265	3	14	15262	30787	2
maize	7957	1916	3286	118	12	12	38313	42399	35
wheat	4745	240	968	611	5	—	4747	7509	9
all cereals	51337	7911	17905	2996	917	196	162988	164367	1919
all pulses	14012	289	1750	1071	26	14	3809	15433	658
all oil seeds	3639	304	588	305	9	3	3626	7546	24
sugarcane	1374	356	531	61	11	2	9536	7272	8
other crop commodities	6695	240	1083	112	40	2	2970	15990	1491
all other crops	275	3	60	—	—	—	54	501	1
all crops	77332	9103	21917	4545	1003	217	182983	211109	4101

TABLE 9 : ESTIMATES OF AREA UNDER CROP, AREA APPLIED WITH FERTILISER AND MANURE AND AREA AFFECTED BY PESTS AND DISEASES FOR IRRIGATED CROPS AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETY OF SEEDS.

GENERAL SAMPLE

UTTAR PRADESH

crop/crop group	irrigated crop area (hectares 00)				unirrigated crop area (hectares 00)			
	total	applied with fertiliser	applied with manure	affected by pests & diseases	total	applied with fertiliser	applied with manure	affected by pests & diseases
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ordinary variety								
paddy	12243	5277	5992	1158	19705	3339	8429	1291
bajra	502	151	203	4	8421	1019	2301	239
maize	2588	1652	1541	39	7754	1810	3184	97
wheat	18236	6917	9567	1617	3492	111	755	563
all cereals	39378	15259	19308	2951	47670	6455	16565	2606
all pulses	6214	507	1382	338	13924	278	1726	1059
all oil seeds	1406	484	462	80	3607	304	582	301
sugar cane	4534	2413	2961	417	1107	299	424	43
other crop commodities	4851	1568	1607	77	6571	238	1048	96
all other crops	436	236	160	5	275	3	60	—
all crops	56819	20467	25880	3868	73154	7577	20405	4105
improved variety								
paddy	4437	3747	2260	621	2017	1105	952	295
bajra	1	—	—	—	191	116	73	26
maize	59	52	18	6	203	106	102	21
wheat	35489	28028	12436	3094	1253	129	213	48
all cereals	40073	31871	14739	3721	3667	1456	1340	390
all pulses	112	29	18	15	88	11	24	12
all oilseeds	101	45	43	—	32	—	6	4
sugarcane	5754	5051	3988	1561	267	57	107	18
other crop commodities	651	498	396	22	124	2	35	16
all other crops	20	3	4	5	—	—	—	—
all crops	46711	37497	19188	5324	4178	1526	1512	440

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISERS HAVING NUTRIENTS N ONLY, NP ONLY, NPK ONLY AND OTHERS SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY/CROP GROUP.

GENERAL SAMPLE

UTTAR PRADESH

crop/crop group	irrigated crop area (hectares 00) applied with fertilisers having nutrients					unirrigated crop area (hectares 00) applied with fertilisers having nutrients				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
paddy	8333	355	278	58	9024	4290	94	47	13	4444
bajra	151	—	—	—	151	1058	63	12	2	1135
maize	1595	89	17	3	1704	1780	40	88	8	1916
wheat	27128	4512	2882	423	34945	182	13	22	23	240
all cereals	38321	5055	3263	491	47130	7475	218	172	46	7911
all pulses	454	25	19	38	536	272	7	5	5	289
all oilseeds	420	45	62	2	529	273	7	—	24	304
sugarcane	5966	1074	330	94	7464	277	74	4	1	356
other crop commodities	1838	106	79	43	2066	236	4	—	—	240
all other crops	219	16	4	—	239	3	—	—	—	3
all crops	47218	6312	3757	668	57964	8536	310	181	76	9103

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate, ammonium chloride and urea.

'NP' only means nitrogenous phosphate fertilisers like ammonium phosphate, ammonium phosphate sulphate, diammonium phosphate, urea ammonium phosphate and ammonium nitrate phosphate. It also includes phosphate fertilisers like single super phosphate, triple super phosphate and palfos in combination with nitrogenous fertilisers containing 'N' only.

'NPK' means nitrogenous phosphates potash fertilisers like nitrophosphate and NP% complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NP' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND TYPE OF IRRIGATION GENERAL SHMPL E

UTTAR PRADESH

crop/crop group	area (hectares 00) under irrigation crop by type of irrigation											
	flow					lift					flow and lift combined	
	canal	diversion scheme	tank	others	total	well	tube-well	river	tank	others		total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
paddy	6912	386	46	47	7391	1411	6523	450	620	285	9289	16680
bajra	69	—	—	—	69	50	382	—	2	—	434	503
maize	412	1	—	4	417	253	1956	—	6	15	2230	2647
wheat	13021	331	110	92	13554	7630	28065	881	2592	1003	40171	53725
all cereals	21353	736	172	143	22404	10639	40047	1414	3506	1441	57047	79451
all pulses	1698	18	34	5	1755	1192	2875	62	363	79	4571	6326
all oilseeds	610	—	2	1	613	102	715	4	59	14	894	1507
sugarcane	2291	182	5	6	2484	841	6618	101	149	95	7804	10288
other crop commodities	1157	1	8	13	1179	866	3262	28	69	98	4323	5502
all other crops	63	—	—	3	66	153	236	—	1	—	390	456
all crops	27172	937	221	171	28501	13793	53753	1609	4147	1727	75029	103530

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND NUMBER OF TIMES IRRIGATED

GENERAL SAMPLE

UTTAR PRADESH

crop/crop group	crop area (hectares 00) irrigated					total
	once	twice	thrice	more than thrice	not recorded	
(0)	(1)	(2)	(3)	(4)	(5)	(6)
paddy	5213	4516	3246	3534	171	16680
bajra	406	38	14	1	44	503
maize	1684	722	150	41	50	2647
wheat	9209	14839	13436	15915	326	53725
all cereals	18965	21888	17771	20087	740	79451
all pulses	3836	1355	557	388	190	6326
all oilseeds	715	479	176	90	47	1507
sugarcane	1023	1396	1626	6212	31	10288
other crop commodities	1864	792	605	2103	138	5502
all other crops	98	49	34	271	4	456
all crops	26501	25959	20769	29151	1150	103530

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROPS WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUP

GENERAL SAMPLE

UTTAR PRADESH

crop/crop group	area (hectares 00) under irrigated crop		
	with subsidiary irrigation	without subsidiary irrigation	total
(0)	(1)	(2)	(3)
paddy	750	15930	16680
bajra	8	495	503
maize	65	2582	2647
wheat	2242	51483	53725
all cereals	3199	76252	79451
all pulses	99	6227	6326
all oilseeds	22	1485	1507
sugarcane	1168	9120	10288
other crop commodities	334	5168	5502
all other crops	25	431	456
all crops	4847	98683	103530

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES—3 YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOLDING

GENERAL SAMPLE

UTTAR PRADESH

items of asset	Value (Rs. 000) of agricultural implements, irrigation equipments and draught animals by size class of holding (hectare)						
	less than 0.5	0.5—1.0	1.0—2.0	1.0—4.0	4.0—10.0	10.0 and above	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
agricultural implement							
1. tractor	—	—	97636	212930	630212	312988	1253766
2. power tiller	—	—	840	3777	18088	5042	27748
3. sprayer	—	—	685	2461	2384	149	5679
4. duster	—	234	—	1004	90	—	1328
5. thresher	784	2074	21767	39911	59592	11560	135688
6. cane crusher	8076	15103	37854	38225	27267	6166	32691
7. oil crusher	259	270	676	1594	992	—	3791
8. all	9119	17681	159458	299902	738625	335906	1560691
irrigation equipments							
1. electric pumps	10062	72275	255486	496778	392555	57430	1284586
2. diesel pumps	24208	139085	521371	732385	575806	71152	2064007
3. wind mill	—	—	1343	141	—	—	1484
4. moat	6489	8696	11876	5739	1492	181	34473
5. persial wheel	21740	81170	155299	136354	64127	2580	461270
6. others (animal-driven)	3036	4739	9185	19318	6172	28	42478
7. counter poise	1617	2276	2350	1403	2032	56	9734
8. manual pumps	1233	742	1834	735	402	—	4946
9. others	1869	3068	6145	3902	1067	20	16071
10. all	70254	312051	964889	1396755	1043653	131447	3919049
draught animals							
1. cattles	612479	1180569	1940603	1608504	909992	118696	6370843
2. buffaloes	42658	108148	186217	157630	90558	6855	592066
3. all	655137	1288717	2126820	1766134	1000550	125551	6962909
total	734510	1618449	3251167	3462791	2782828	592904	12442649

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND NUMBER OF PUMSETS POSSESSED BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE

UTTAR PRADESH

size class of holding (hectare)	no. of households reporting pumpsets (00)	no. of pumpsets* (00)
(0)	(1)	(2)
less than 0.5	245	260
0.5—1.0	887	899
1.0—2.0	2292	2334
2.0—4.0	2854	2967
4.0—10.0	1919	2049
10.0 & above	211	223
all	8408	8722

*In this and subsequent tables on number of pumpsets, the number includes those possessed jointly as well as on rent. In the case of jointly possessed, instead of the household share of the number possessed, the total number possessed jointly has been counted as possessed by the sample household. Hence the estimated number of pumpsets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE OF POWER AND BY HORSE POWER
GENERAL SAMPLE

horse power (0)	number of pumpsets* (00) having source of power				total (4)
	electricity	diesel	both electricity & diesel		
	(1)	(2)	(3)		
less than 1.0	11	—	6	1	
1.0—2.0	6	—	—	6	
2.0—3.0	—	—	—	—	
3.0—4.0	12	—	—	12	
4.0—5.0	—	42	—	42	
5.0 & above	2604	5833	6	8443	
not recorded	18	18	—	202	
all	2651	6059	12	8722	

see footnote in table 15

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS* AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER

GENERAL SAMPLE

UTTAR PRADESH

source of power (0)	possession type							
	owned singly		owned jointly		rented		total	
	no. of pumpsets (00) (1)	hh's share of value of owned equipments (Rs. 000) (2)	no. of pumpsets (00) (3)	hh's share of value of owned equipments (Rs. 000) (4)	no. of pumpsets (00) (5)	hh's share of value of owned equipments (Rs. 000). (6)	no. of pumpsets (00) (7)	hh's share of value of owned equipments (Rs. 000) (8)
electricity	1306	915989	1333	367717	12	—	2651	1283706
diesel	3472	1683342	2375	443594	212	—	6059	2126936
both electricity & diesel	12	1455	—	—	—	—	12	1455
all	4790	2600786	3708	811311	224	—	8722	3412097

*see footnote on table 15.

TABLE 18 : ESTIMATES OF NUMBER OF PUMPSETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE

GENERAL SAMPLE

UTTAR PRADESH

source of power	no. of pumpsets (00) reporting area irrigated by source of water					total
	well	tube well	rivers & streams	others	not recorded	
(0)	(1)	(2)	(3)	(4)	(5)	(6)
<i>owned singly</i>						
1. electricity	91	1215	—	—	—	1306
2. diesel	195	3109	47	121	—	3472
3. both electricity & diesel	6	6	—	—	—	12
4. all	292	4330	47	121	—	4790
<i>owned jointly</i>						
1. electricity	63	1270	—	—	—	1333
2. diesel	104	2209	18	44	—	2375
3. both electricity & diesel	—	—	—	—	—	—
4. all	167	3479	18	44	—	3708
<i>rented</i>						
1. electricity	—	12	—	—	—	12
2. diesel	18	188	—	6	—	212
3. both electricity & diesel	—	—	—	—	—	—
4. all	18	200	—	6	—	224
<i>total</i>						
1. electricity	154	2497	—	—	—	2651
2. diesel	217	5506	65	171	—	6059
3. both electricity & diesel	5	6	—	—	—	12
4. all	377	8009	65	171	—	8722

*see footnote on table 15.

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEMS OF EXPENDITURE

GENERAL SAMPLE

UTTAR PRADESH

items of expenditure	amount (Rs. 000)
(0)	(1)
1. repair and maintenance expenses of bunds and field channels	55564
2. water charges	868767
3. other expenses on independently owned lift irrigation	702402
4. share of expenses on joint arrangements	216472
5. receipt from sale of water	(-163271)
6. total	1679934

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF SAMPLE HOUSEHOLDS SURVEYED FOR SCHEDULE 22.1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATOR HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION.

GENERAL SAMPLE		DELHI
item	(0)	number
		(1)
1. number of sample villages allotted for survey		24
2. number of sample villages actually surveyed		24
3. number of sample households surveyed for Schedule 22.1		355
4. estimated number of total households ^a (00)		1110
5. estimated number of cultivating households (00)		434
(i) usually using irrigation		378
(ii) usually not using irrigation ^b		56

a] from listing Schedule—Draft Report No. 291, Part-I

b from Schedule 22.2—Draft Report No. 312

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION FACILITY BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE		DELHI											
size class of holding (hectare)	no. of households (00)	irrigable area (hectares 00)						area of land without irrigation facility (hectares 00)					
		area possessed			net area sown	area cropped more than once	gross cropped area	area possessed			net area sown	area cropped more than once	gross cropped area
		owned	leased-in	total				owned	leased-in	total			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
less than 0.5	92	19	5	24	24	20	44	5	—	5	3	1	4
0.5—1.0	61	33	2	35	34	25	59	7	—	7	6	1	7
1.0—2.0	92	104	5	109	109	76	185	18	2	20	17	7	24
2.0—4.0	74	156	11	167	162	101	263	41	—	41	35	9	44
4.0—10.0	55	210	—	210	205	152	357	66	—	66	57	26	—
10.0 & above	4	61	4	65	65	53	118	—	—	—	—	—	—
all	378	583	27	610	599	427	1026	137	2	139	118	44	162

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION

GENERAL SAMPLE

DELHI

size class of holding (hectare)	flow					lift					flow & lift com- bined	
	canal	diver- sion scheme	tank	others	all	well	tube well	river	tank	others		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
<i>number of households (00) reporting area irrigated</i>												
less than 0.5	3	—	—	1	4	14	74	—	—	1	86	90
0.5—1.0	7	—	—	1	8	9	47	—	—	—	56	60
1.0—2.0	24	—	—	1	25	13	64	—	—	—	77	92
2.0—4.0	16	1	—	—	17	7	55	—	—	—	62	73
4.0—10.0	9	—	—	1	10	6	45	—	—	—	50	55
10.0 & above	1	—	—	—	1	—	3	—	—	—	3	4
all	60	1	—	4	65	49	288	—	—	1	334	374
<i>net area irrigated (hectares 00)</i>												
less than 0.5	—	—	—	1	1	2	20	—	—	1	23	24
0.5—1.0	1	—	—	—	1	2	28	—	—	—	30	31
1.0—2.0	16	—	—	—	16	11	73	—	—	—	84	100
2.0—4.0	17	3	—	—	20	10	117	—	—	—	127	147
4.0—10.0	12	—	—	—	12	8	173	—	—	—	181	193
10.0 & above	5	—	—	—	5	—	58	—	—	—	58	63
all	51	3	—	1	55	33	469	—	—	1	503	558

TABLE 3 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOLDING AND BY SOURCE OF POWER.

GENERAL SAMPLE

DELHI

size class of holding (hectare)	no. of households (00) reporting lift irrigation using						net area irrigated (hectares 00) by lift using					
	elec- tricity	diesel	wind- will	animal	human	all	elec- tricity	diesel	wind- mill	animal	human	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
less than 0.5	62	18	—	2	4	86	17	4	—	1	1	23
0.5—1.0	29	22	—	5	—	56	18	11	—	1	—	30
1.0—2.0	25	41	—	9	2	77	28	48	—	7	1	84
2.0—4.0	19	37	—	6	—	62	44	75	—	8	—	127
4.0—10.0	14	32	—	4	—	50	63	112	—	6	—	181
10.0 & above	1	2	—	—	—	3	38	20	—	—	—	58
all	150	152	—	26	6	334	208	270	—	23	2	503

TABLE 4 : ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF THE SOURCE OF WATER FOR IRRIGATION.

GENERAL SAMPLE													DELHI
ownership of source of water for irrigation	net area irrigated (hectares 00) by type of irrigation												
	flow					lift							
	canal	diversion scheme	tank	others	all	well	tube-well	river	tank	others	all	flow & lift combined	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
government	51	—	—	—	51	—	10	—	—	—	10	61	
co-operative	—	—	—	—	—	—	—	—	—	—	—	—	
private-joint	—	—	3	—	3	15	55	—	—	—	70	73	
private-single	—	—	—	1	1	18	404	—	—	1	423	424	
all	51	—	3	1	55	33	469	—	—	1	503	558	

TABLE 5 : ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND BY SOURCE OF POWER

GENERAL SAMPLE													DELHI
ownership of lifting equipment	net area irrigated (hectares 00) by source of power												
	electricity			diesel		wind mill		animal drawn		human drawn		all	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
government	11	—	—	—	—	—	—	—	—	—	—	11	
co-operative	—	—	—	—	—	—	—	—	—	—	—	—	
private-joint	31	29	—	—	—	—	—	—	—	—	—	69	
private-single	166	241	—	—	—	—	—	—	—	2	—	423	
all	208	270	—	—	—	—	—	—	—	2	—	503	

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION FACILITY BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASON FOR NOT IRRIGATION.

GENERAL SAMPLE

DELHI

size class of holding (hectare)	area (hectares 00) by reason for not irrigating			
	adequate rainfall	non-availa- bility of water	other reasons	all reasons
(0)	(1)	(2)	(3)	(4)
less than 0.5	—	—	—	—
0.5—1.0	—	—	2	2
1.0—2.0	—	5	3	8
2.0—4.0	—	3	13	16
4.0—10.0	—	6	9	15
10.0 & above	—	—	—	—
all	—	14	27	41

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF THE PLOTS, NET AREA IRRIGATED, NET AREA NOT IRRIGATED AND NET AREA SOWN BY SIZE CLASS OF PARCELS.

GENERAL SAMPLE

size class of parcels (hectare)	area (hectares 00)				
	number parcels (00)	total irri- gable land	net area irrigated	net area not irri- gated	net area sown
(0)	(1)	(2)	(3)	(4)	(5)
less than 0.05	8	—	—	—	—
0.05—0.1	23	2	2	—	2
0.1—0.2	77	11	10	1	11
0.2—0.3	93	21	18	3	21
0.3—0.4	43	14	12	2	14
0.4—0.5	111	46	41	5	46
0.5—1.0	135	95	82	11	93
1.0—2.0	100	135	117	15	132
2.0 & above	71	286	276	4	280
all	661	610	558	41	599

Parcel : A plot or contiguously located plots having a common source of irrigation facility possessed by the household was treated as a parcel.

TABLE 8 : ESTIMATES OF AREA (I) UNDER CROP (II) APPLIED WITH FERTILISER, (III) APPLIED WITH MANURE (IV) AFFECTED BY PESTS AND DISEASES (V) SPRAYED WITH PESTICIDES AND (VI) OF CROPS FINALLY DAMAGED AND VALUE OF (I) FERTILISER USED, (II) MANURE USED AND (III) PESTICIDES SPRAYED SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP

GENERAL SAMPLE										DELHI
crop/ crop group	area (hectares 00)						value (Rs. 000) of			
	under crop	applied with ferti- liser	applied with manure	affected by pests and diseases	sprayed with pesti- cides	of crop finally dama- ged	ferti- liser used	manure used	pesti- cides sprayed	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
<i>irrigated crops</i>										
bajra	169	10	73	—	—	—	123	364	—	
wheat	488	410	278	2	—	—	8043	2926	—	
all cereals	685	423	363	3	—	—	8238	3345	—	
all pulses	33	4	27	—	—	—	34	231	—	
all oilseeds	—	—	—	—	—	—	13	—	—	
other crop commodities	99	7	8	—	—	—	257	221	9	
all other crops	12	5	4	—	—	—	109	97	—	
all crops	829	439	402	3	—	—	8651	3894	9	
<i>unirrigated crops</i>										
bajra	126	16	30	10	—	—	240	432	—	
wheat	70	2	14	—	—	—	29	138	—	
all cereals	237	18	45	11	—	—	269	599	—	
all pulses	33	—	1	2	—	—	—	16	—	
all oilseeds	—	—	—	—	—	—	—	—	—	
other crop commodities	89	2	5	—	—	—	32	48	—	
all other crops	—	—	—	—	—	—	—	—	—	
all crops	359	20	51	13	—	—	301	663	—	

TABLE 9 : ESTIMATES OF AREA UNDER CROP, AREA APPLIED WITH FERTILISER AND MANURE AND AREA AFFECTED BY PESTS AND DISEASES FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETY OF SEEDS.

GENERAL SAMPLE

ELHI

crop/crop group	irrigated crop area (hectares-00)				unirrigated crop area (hectares 00)			
	total	applied with ferti- liser	applied with manure	affected by pests dis- eases	total	applied with ferti- liser	applied with manure	affected by pests & dis- eases
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<i>ordinary variety</i>								
bajra	119	5	51	—	84	8	22	8
wheat	78	40	25	1	42	2	3	—
all cereals	220	48	88	2	167	10	26	9
all pulses	33	4	27	—	33	—	1	2
all oilseeds	—	—	—	—	—	—	—	—
other crop commodities	99	7	8	—	89	2	5	—
all other crops	7	3	4	—	—	—	—	—
all crops	359	62	127	2	289	12	32	11
<i>improved variety</i>								
bajra	50	5	22	—	42	8	8	2
wheat	410	370	253	1	28	—	11	—
all cereals	465	375	275	1	70	8	19	2
all pulses	—	—	—	—	—	—	—	—
all oilseeds	—	—	—	—	—	—	—	—
other crop commodities	—	—	—	—	—	—	—	—
all other crops	5	2	—	—	—	—	—	—
all crops	470	377	275	1	70	8	19	2

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISERS HAVING NUTRIENTS N ONLY, NP ONLY, NPK ONLY AND OTHERS SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP

GENERAL SAMPLE						DELHI				
crop/crop groups	irrigated crop area (hectares 00) applied with fertilisers having nutrients					unirrigated crop area (hectares 00) applied with fertilisers having nutrients				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
bajra	10	—	—	—	10	13	3	—	—	16
wheat	300	104	1	5	410	2	—	—	—	2
all cereals	312	105	1	5	423	15	3	—	—	18
all pulses	4	—	—	—	4	—	—	—	—	—
all oilseeds	—	—	—	—	—	—	—	—	—	—
other crop commodities	6	1	—	—	7	2	—	—	—	2
all other crops	3	1	—	1	5	—	—	—	—	—
all crops	325	107	1	6	439	17	3	—	—	20

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate ammonium chloride and urea.

'NP' only means nitrogenous phosphate fertilisers like ammonium phosphate, ammonium phosphate sulphate, diammonium phosphate, urea ammonium phosphate and ammonium nitrate phosphate. It also includes phosphate fertilisers like single super phosphate, triple super phosphate and palfos in combination with nitrogenous fertilisers containing 'N' only.

'NPK' means nitrogenous phosphatic potash fertilisers like nitrophosphate and NPK complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NP' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND TYPE OF IRRIGATION

GENERAL SAMPLE

DELHI

crop/crop group	area hectares 00) under irrigated crop by type of irrigation											
	flow					lift					flow & lift combined	
	canal	diversion scheme	tank	others	total	well	tube well	river	tank	others		total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
bajra	9	—	—	—	9	—	160	—	—	—	160	169
wheat	39	—	—	1	40	27	421	—	—	—	448	488
all cereals	54	2	—	1	57	32	596	—	—	—	628	685
all pulses	6	1	—	—	7	—	26	—	—	—	26	33
all oilseeds	—	—	—	—	—	—	—	—	—	—	—	—
other crop commodities	7	—	—	—	7	1	90	—	—	1	92	99
all other crops	2	—	—	—	2	2	8	—	—	—	10	12
all crops	69	3	—	1	73	35	720	—	—	1	756	829

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND NUMBER OF TIMES IRRIGATED.

GENERAL SAMPLE DELHI

crop/crop group	crop area (hectares 00) irrigated					total
	once	twice	thrice	more than thrice	not recorded	
	(1)	(2)	(3)	(4)	(5)	
bajra	167	2	—	—	—	169
wheat	7	25	39	417	—	488
all cereals	191	31	42	418	3	685
all pulses	33	—	—	—	—	33
all oilseeds	—	—	—	—	—	—
other crop commodities	67	7	3	16	6	99
all other crops	—	—	1	10	1	12
all crops	291	38	46	444	10	829

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROPS WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUP

GENERAL SAMPLE DELHI

crop/crop group	area (hectares 00) under irrigated crops		
	with subsidiary irrigation	without subsidiary irrigation	total
	(1)	(2)	(3)
bajra	—	169	169
wheat	20	468	488
all cereals	20	665	685
all pulses	—	33	33
all oilseeds	—	—	—
other crop commodities	1	98	99
all other crops	—	12	12
all crops	21	808	829

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES—3YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOLDING.

GENERAL SAMPLE

DELHI

items of assets	value (Rs. 000) of agricultural implements, irrigation equipments and animals by size class of holding (hectare)						
	less than 0.5	0.5—1.0	1.0—2.0	2.0—4.0	4.0—10.0	10.0 & above	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
agricultural implements							
1. tractor	—	—	—	13451	38716	9360	61527
2. power tiller	—	—	—	426	1238	—	1664
3. sprayer	—	—	—	—	78	—	78
4. duster	—	—	—	—	14	—	14
5. thresher	—	52	103	1456	2064	728	4403
6. cane crusher	—	—	23	—	—	—	23
7. oil crusher	—	—	—	—	—	—	—
8. all	—	52	126	15333	42110	10088	67709
irrigation equipments							
1. electric pumps	2129	1513	6512	5843	7614	2704	26315
2. diesel pumps	166	1633	5054	8193	9524	1872	26442
3. wind-mill	—	—	—	—	—	—	—
4. moat	—	—	—	—	—	—	—
5. persian wheel	12	117	517	632	145	—	1423
6. others (animal-driven)	—	359	829	1616	790	—	3594
7. counter poise	—	—	—	—	—	—	—
8. manual pumps	—	—	14	29	—	—	43
9. others	154	369	854	1062	623	—	3062
10. all	2461	3991	13780	17375	18696	4576	60879
draught animals							
1. cattles	520	1695	5574	9131	6985	520	24425
2. buffaloes	83	—	—	—	385	—	468
3. all	603	1695	5574	9131	7370	520	24893
total	3064	5738	19480	41839	68176	15184	153481

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND NUMBER OF PUMPSETS POSSESSED BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE

DELHI

size class of holding (hectare)	no. of households reporting pumpsets (00)	no. of pump sets* (00)
(0)	(1)	(2)
less than 0.5	20	23
0.5—1.0	20	25
1.0—2.0	33	37
2.0—4.0	44	52
4.0—10.0	42	60
10.0 & above	3	9
all	162	206

*In this and subsequent tables on number of pump sets, the number includes those possessed jointly as well as on rent. In the case of jointly possessed, instead of the household share of the number possessed the total number possessed jointly has been counted as possessed by the sample household. Hence the estimated number of pump sets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE OF POWER AND BY HORSE POWER

GENERAL SAMPLE		DELHI			
horse power	no. of pumpsets* (00) having source of power				
	electricity	diesel	both electricity & diesel	total	
(0)	(1)	(2)	(3)	(4)	
less than 1.0	—	—	—	—	
1.0-2.0	—	—	—	—	
2.0-3.0	1	—	—	1	
3.0-4.0	65	3	—	68	
4.0-5.0	—	—	—	—	
5.0 & above	41	86	—	127	
not recorded	—	10	—	10	
all	107	99	—	206	

*See footnote on table 15.

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS* AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER

GENERAL SAMPLE		DELHI						
source of power	possession type							
	owned singly		owned jointly		rented		total	
	no. of pump sets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pump sets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pump sets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pump sets (00)	hh's share of value of owned equipments (Rs. 000)
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
electricity	47	19551	60	6713	—	—	107	26264
diesel	60	23273	26	3411	13	—	99	26684
both electricity & diesel	—	—	—	—	—	—	—	—
all	107	42824	86	10124	13	—	206	52948

*See footnote on table 15.

TABLE 18 : ESTIMATES OF NUMBER OF PUMPSETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE

GENERAL SAMPLE		no. of pumpsets (00) reporting area irrigated by source of water					DELHI
source of power		well	tube well	rivers & streams	others	not recorded	total
(0)		(1)	(2)	(3)	(4)	(5)	(6)
owned singly							
1. electricity		2	45	—	—	—	47
2. diesel		3	57	—	—	—	60
3. both electricity & diesel		—	—	—	—	—	—
4. all		5	102	—	—	—	107
owned jointly							
1. electricity		15	45	—	—	—	60
2. diesel		—	25	—	1	—	26
3. both electricity & diesel		—	—	—	—	—	—
4. all		15	70	—	1	—	86
rented							
1. electricity		—	—	—	—	—	—
2. diesel		—	13	—	—	—	13
3. both electricity & diesel		—	—	—	—	—	—
4. all		—	13	—	—	—	13
total							
1. electricity		17	90	—	—	—	107
2. diesel		3	95	—	1	—	99
3. both electricity & diesel		—	—	—	—	—	—
4. all		20	185	—	1	—	206

*See footnote on table 15.

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEMS OF EXPENDITURE

GENERAL SAMPLE	DELHI
items of expenditure	amount (Rs. 000)
(0)	(1)
1. repair and maintenance expenses of bunds and field channels	1190
2. water charges	4703
3. other expenses on independently owned lift irrigation	9715
4. share of expenses on joint arrangements	2057
5. receipt from sale of water	(-)4046
6. total	13619

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF SAMPLE HOUSEHOLDS SURVEYED FOR SCHEDULE 22.1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATOR HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION.

GENERAL SAMPLE		GOA, DAMAN & DIU
item		number
(0)		(1)
1. number of sample villages allotted for survey		40
2. number of sample villages actually surveyed		40
3. number of sample households surveyed for Schedule 22.1		322
4. estimated number of total households ^a (00)		1221
5. estimated number of cultivating households (00)		616
(i) usually using irrigation		217
(ii) usually not using irrigation ^b		399

a from listing Schedule—Draft Report No. 291, Part—I.

b from Schedule 22.2—Draft Report No. 312.

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE		GOA, DAMAN & DIU											
size class of holding (hectare)	no. of households (00) with irrigable land	irrigable area (hectares 00)						area of land without irrigation facility (hectares 00)					
		area possessed			net area sown	area cropped more than once	gross cropped area	area possessed			net area sown	area cropped more than once	gross cropped area
		owned	leased-in	total				owned	leased-in	total			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
less than 0.5	119	18	4	22	22	16	38	6	2	8	7	—	7
0.5—1.0	51	14	7	21	20	12	32	14	3	17	16	—	16
1.0—2.0	33	15	11	26	25	8	33	14	8	22	21	1	22
2.0—4.0	10	10	6	16	15	2	17	11	2	13	12	1	13
4.0—10.0	4	2	—	2	2	—	2	10	11	21	7	—	7
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—	—
all	217	59	28	87	84	38	122	55	26	81	63	2	65

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION

GENERAL SAMPLE GOA, DAMAN & DIU

size class of holding (hectare)	flow					lift					flow & lift combined	
	canal	diver- sion scheme	tank	others	all	well	tube well	river	tank	otheres		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
number of households (00) reporting area irrigated												
less than 0.5	1	46	4	27	78	34	—	—	—	4	38	116
0.5—1.0	—	21	3	22	45	5	—	—	—	1	6	51
1.0—2.0	—	9	—	20	29	—	—	—	—	4	4	33
2.0—4.0	—	—	—	7	7	3	—	—	—	—	3	10
4.0—10.0	—	—	—	3	3	—	—	—	—	—	—	3
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—
all	1	76	7	79	162	42	—	—	—	9	51	213
net area irrigated (hectares 00)												
less than 0.5	—	9	1	5	15	5	—	—	—	—	5	20
0.5—1.0	—	9	—	8	17	2	—	—	—	—	2	19
1.0—2.0	—	8	—	13	21	—	—	—	—	2	2	23
2.0—4.0	—	1	—	11	12	3	—	—	—	—	3	15
4.0—10.0	—	—	—	1	1	—	—	—	—	—	—	1
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—
all	—	27	1	38	66	10	—	—	—	2	12	78

TABLE 3 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOLDING AND BY SOURCE OF POWER

GENERAL SAMPLE GOA, DAMAN & DIU

size class of holding (hectare)	no. of households (00) reporting lift irrigation using						net area irrigated (hectares 00) by lift using					
	electricity	diesel	wind mill	animal	human	all	electricity	diesel	wind mill	animal	human	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
less than 0.5	—	34	—	—	4	38	—	5	—	—	—	5
0.5—1.0	—	5	—	—	1	6	—	2	—	—	—	2
1.0—2.0	—	—	—	—	4	4	—	—	—	—	2	2
2.0—4.0	—	2	—	—	1	3	—	2	—	—	1	3
4.0—10.0	—	—	—	—	—	—	—	—	—	—	—	—
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—
all	—	41	—	—	10	51	—	9	—	—	3	12

TABLE 4 : ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF THE SOURCE OF WATER FOR IRRIGATION

GENERAL SAMPLE		GOA, DAMAN & DIU											
		net area irrigated (hectares 00) by type of irrigation											
ownership of source of water for irrigation		flow				lift					flow & lift combined		
		canal	diversion scheme	tank	others	all	well	tube well	river	tank		others	all
(0)		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
government		—	8	—	38	46	—	—	—	—	—	—	46
co-operative		—	1	1	—	2	—	—	—	—	—	—	2
private-joint		—	18	—	—	18	7	—	—	—	—	7	25
private-single		—	—	—	—	—	3	—	—	—	2	5	5
all		—	27	1	38	66	10	—	—	—	2	12	78

TABLE 5 : ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND BY SOURCE OF POWER

GENERAL SAMPLE		GOA, DAMAN & DIU					
		net area irrigated (hectares 00) by source of power					
ownership of lifting		electricity	diesel	wind mill	animal drawn	human drawn	all
		(1)	(2)	(3)	(4)	(5)	(6)
(0)		(1)	(2)	(3)	(4)	(5)	(6)
government		—	—	—	—	—	—
co-operative		—	—	—	—	—	—
private-joint		—	7	—	—	—	7
private-single		—	2	—	—	—	2
all		—	9	—	—	3	12

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION FACILITY BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASON FOR NOT IRRIGATION

GOA, DAMAN & DIU

GENERAL SAMPLE size class of holding (hectare)	area (hectares 00) by reason for not irrigating			
	adequate rainfall	non-availability of water	other reasons	all reasons
	(1)	(2)	(3)	(4)
(0)				
less than 0.5	—	1	—	1
0.5—1.0	—	1	—	1
1.0—2.0	—	1	3	4
2.0—4.0	—	—	—	—
4.0—10.0	—	—	—	—
10.0 & above	—	—	—	—
all	—	3	3	6

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF THE PLOTS, NET AREA IRRIGATED, NET AREA NOT IRRIGATED, NET AREA SOWN BY SIZE CLASS OF PARCELS

GOA, DAMAN & DIU

GENERAL SAMPLE size class of parcels (hectares)	number of parcels (00)	area-(hectares 00)			
		total irrigable land	net area irrigated	net area not irrigated	net area sown
		(1)	(2)	(3)	(4)
(0)					
less than 0.05	34	1	1	—	1
0.05—0.1	50	4	3	—	3
0.1—0.2	114	16	15	1	16
0.2—0.3	83	19	18	1	19
0.3—0.4	16	5	5	—	5
0.4—0.5	18	7	7	—	7
0.5—1.0	30	20	17	2	19
1.0—2.0	10	12	9	2	11
2.0 & above	2	3	3	—	3
all	357	87	78	6	84

Parcel : A plot or contiguously located plots having a common source of irrigation facility possessed by the household was treated as a parcel.

TABLE 8 : ESTIMATES OF AREA (I) UNDER CROP, (II) APPLIED WITH FERTILISER, (III) APPLIED WITH MANURE, (IV) AFFECTED BY PESTS AND DISEASES, (V) SPRAYED WITH PESTICIDES AND (VI) OF CROPS FINALLY DAMAGED AND VALUE OF (I) FERTILISER USED, (II) MANURE USED AND (III) PESTICIDES SPRAYED SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE		GOA, DAMAN & DIU								
crop/crop group	area (hectares 00)						value (Rs.000) of			
	under crop	applied with fertiliser	applied with manure	affected by pests & diseases	sprayed with pesticides	of crops finally damaged	fertiliser used	manure used	pesticides sprayed	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
irrigated crops										
paddy	51	51	45	30	28	6	3060	781	120	
all cereals	58	53	45	30	28	6	3143	798	122	
all pulses	—	—	—	—	—	—	—	—	—	
all oilseeds	—	—	—	—	—	—	—	—	—	
other crop commodities	17	1	14	—	—	—	49	347	—	
all other crops	3	3	2	—	—	—	375	48	—	
all crops	78	57	61	30	28	6	3567	1193	122	
unirrigated crops										
paddy	63	32	42	9	4	4	1004	569	11	
all cereals	80	38	47	9	4	4	1107	697	11	
all pulses	2	—	1	1	—	—	6	8	—	
all oilseeds	—	—	—	—	—	—	—	2	—	
other crop commodities	27	5	5	—	—	—	76	102	—	
all other crops	—	—	—	—	—	—	1	3	—	
all crops	109	43	53	10	4	4	1190	812	11	

TABLE 9 : ESTIMATES OF AREA UNDER CROP, AREA APPLIED WITH FERTILISER AND MANURE AND AREA AFFECTED BY PESTS AND DISEASES FOR IRRIGATED CROPS AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETY OF SEEDS

GENERAL SAMPLE										GOA, DAMAN & DIU		
crop/crop group	irrigated crop area (hectares 00)					unirrigated crop area (hectares 00)						
	total	applied with		affected by pests & diseases	total	applied with		affected by pests & diseases				
		fertiiser	manure			fertiliser	manure					
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)				
ordinary variety												
paddy	4	4	3	—	55	27	35	6				
all cereals	9	6	3	—	72	33	40	6				
all pulses	—	—	—	—	2	—	1	1				
all oilseeds	—	—	—	—	—	—	—	—				
other crop commodities	17	1	14	—	27	5	5	—				
all other crops	2	2	2	—	—	—	—	—				
all crops	28	9	19	—	101	38	46	7				
improved variety												
paddy	47	47	42	30	8	5	7	3				
all cereals	49	47	42	30	8	5	7	3				
all pulses	—	—	—	—	—	—	—	—				
all oilseeds	—	—	—	—	—	—	—	—				
other crop commodities	—	—	—	—	—	—	—	—				
all other crops	1	1	—	—	—	—	—	—				
all crops	50	48	42	30	8	5	7	3				

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISERS HAVING NUTRIENTS N ONLY, NP ONLY, NPK ONLY AND OTHERS BY CROP/CROP GROUP SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS.

GENERAL SAMPLE						GOA, DAMAN & DIU				
crop/crop group	irrigated crop area (hectares 00) applied with fertilisers having nutrients					unirrigated crop area (hectares 00) applied with fertilisers having nutrients				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
paddy	2	—	47	2	51	7	—	25	—	32
all cereals	2	—	47	4	53	9	—	29	—	38
all pulses	—	—	—	—	—	—	—	—	—	—
all oilseeds	—	—	—	—	—	—	—	—	—	—
other crop commodities	—	—	1	—	1	—	—	1	4	5
all other crops	—	—	2	1	3	—	—	—	—	—
all crops	2	—	50	5	57	9	—	30	4	43

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate, ammonium chloride and urea.

'NP' only means nitrogenous phosphate fertilisers like ammonium phosphate, ammonium phosphate sulphate, diammonium phosphate, urea ammonium phosphate] and ammonium nitrate phosphate. It also includes phosphate fertilisers like single super phosphate, triple super phosphate and palfos in combination with nitrogenous fertilisers containing 'N' only.

'NPK' means nitrogenous phosphatic potash fertilisers like nitrophosphate and NPK complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NP' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND TYPE OF IRRIGATION

GENERAL SAMPLE													GOA, DAMAN & DIU	
crop/crop group	area (hectares 00) under irrigated crop by type of irrigation													
	flow					lift					flow and lift combined			
	canal	diversion scheme	tank	others	total	well	tube-well	river	tank	others		total		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		
paddy	—	19	1	31	51	—	—	—	—	—	—	51		
all cereals	—	19	1	32	52	5	—	—	—	1	6	58		
all pulses	—	—	—	—	—	—	—	—	—	—	—	—		
all oilseeds	—	—	—	—	—	—	—	—	—	—	—	—		
other crop commodities	—	8	—	4	12	4	—	—	—	1	5	17		
all other crops	—	—	—	2	2	1	—	—	—	—	1	3		
all crops	—	27	1	38	66	10	—	—	—	2	12	78		

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND NUMBER OF TIMES IRRIGATED

GENERAL SAMPLE

GOA, DAMAN & DIU

crop/crop group	crop area (hectares 00) irrigated					total
	once	twice	thrice	more than thrice	not recorded	
(0)	(1)	(2)	(3)	(4)	(5)	(6)
paddy	—	—	—	50	1	51
all cereals	—	—	—	57	1	58
all pulses	—	—	—	—	—	—
all oilseeds	—	—	—	—	—	—
other crop commodities	—	—	—	17	—	17
all other crops	—	—	—	3	—	3
all crops	—	—	—	77	1	78

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROP WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUP

GENERAL SAMPLE

GOA, DAMAN & DIU

crop/crop group	area (hectares 00) under irrigated crop		
	with subsidiary irrigation	without subsidiary irrigation	total
(0)	(1)	(2)	(3)
paddy	1	50	51
all cereals	1	57	58
all pulses	—	—	—
all oilseeds	—	—	—
other crop commodities	1	16	17
all other crops	—	3	3
all crops	2	76	78

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES—3 YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOLDING

GENERAL SAMPLE		GOA, DAMAN & DIU						
items of assets	value (Rs. 000) of agricultural implements, irrigation equipments and draught animals by size class of holding							
	less than 0.5	0.5—1.0	1.0—2.0	2.0—4.0	4.0—10.0	10.0 & above	all	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
agricultural implements								
1. tractor	—	—	—	—	—	—	—	
2. power tiller	—	—	—	—	—	—	—	
3. sprayer	—	—	—	—	—	—	—	
4. duster	—	—	—	—	—	—	—	
5. thresher	—	—	—	—	—	—	—	
6. cane crusher	—	—	—	—	—	—	—	
7. oil crusher	—	—	—	—	—	—	—	
8. all	—	—	—	—	—	—	—	
irrigation equipments								
1. electric pumps	—	—	—	—	104	—	104	
2. diesel pumps	3052	992	—	720	—	—	4764	
3. wind mill	—	—	—	—	—	—	—	
4. moat	—	—	—	—	—	—	—	
5. persian wheel	248	88	—	—	—	—	336	
6. others (animal driven)	—	—	—	—	—	—	—	
7. counter poise	14	—	—	—	—	—	14	
8. manual pumps	—	—	—	—	—	—	—	
9. others	—	1	32	36	1	—	70	
10. all	3314	1081	32	756	105	—	5288	
draught animals								
1. cattles	3815	2717	1668	672	96	—	8968	
2. buffaloes	642	184	540	133	—	—	1499	
3. all	4457	2901	2208	805	96	—	10467	
total	7771	3982	2240	1561	201	—	15755	

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND NUMBER OF PUMPSETS POSSESSED BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE		GOA, DAMAN & DIU	
size class of holding (hectare)	no. of households reporting pumpsets (00)	no. of pumpsets* (00)	
(0)	(1)	(2)	
less than 0.5	21	21	
0.5—1.0	5	5	
1.0—2.0	—	—	
2.0—4.0	3	3	
4.0—10.0	1	1	
10.0 & above	—	—	
all	30	30	

*In this and subsequent tables on number of pumpsets, the number includes those possessed, jointly as well as on rent. In the case of jointly possessed, instead of the household share of the number possessed, the total number possessed jointly has been counted as possessed by the sample household. Hence the estimated number of pumpsets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE AND BY HORSE POWER

GENERAL SAMPLE		GOA, DAMAN & DIU			
horse power	no. of pumpsets* (00) having source of power				
	electricity	diesel	both electricity and diesel	total	
(0)	(1)	(2)	(3)	(4)	
less than 1.0	—	—	—	—	
1.0—2.0	—	—	—	—	
2.0—3.0	1	—	—	1	
3.0—4.0	—	—	—	—	
4.0—5.0	—	—	—	—	
5.0 & above	1	28	—	29	
not recorded	—	—	—	—	
all	2	28	—	30	

*see footnote in table 15.

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS* AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER.

GENERAL SAMPLE		GOA, DAMAN & DIU						
source of power	possession type						total	
	owned singly		owned jointly		rented			
	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pumpsets (00)	hh's share of value of owned equipments (Rs. 000)
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
electricity	1	88	1	112	—	—	2	200
diesel	5	1760	22	2892	1	—	28	4652
both electricity & diesel	—	—	—	—	—	—	—	—
all	6	1848	23	3004	1	—	30	4852

*see footnote in table 15.

TABLE 18 : ESTIMATES OF NUMBER OF PUMPSETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE

GOA, DAMAN & DIU

GENERAL SAMPLE

source of water (0)	no. of pumpsets (00) reporting area irrigated by source of water					total (6)
	well (1)	tube well (2)	rivers & streams (3)	others (4)	not recorded (5)	
<i>owned singly</i>						
1. electricity . . .	1	—	—	—	—	1
2. diesel . . .	5	—	—	—	—	5
3. both electricity & diesel . . .	—	—	—	—	—	—
4. all . . .	6	—	—	—	—	6
<i>owned jointly</i>						
1. electricity . . .	1	—	—	—	—	1
2. diesel . . .	22	—	—	—	—	22
3. both electricity & diesel . . .	—	—	—	—	—	—
4. all . . .	23	—	—	—	—	23
<i>rented</i>						
1. electricity . . .	—	—	—	—	—	—
2. diesel . . .	—	—	—	1	—	1
3. both electricity & diesel . . .	—	—	—	—	—	—
4. all . . .	—	—	—	1	—	1
<i>total</i>						
1. electricity . . .	2	—	—	—	—	2
2. diesel . . .	27	—	—	1	—	28
3. both electricity & diesel . . .	—	—	—	—	—	—
4. all . . .	29	—	—	1	—	30

*see foot note on table 15.

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEMS OF EXPENDITURE

GOA, DAMAN & DIU

GENERAL SAMPLE

items of expenditure (0)	amount (Rs. 000) (1)
1. repair and maintenance expenses of bunds and field channels	37
2. water charges	118
3. other expenses on independently owned lift irrigation	243
4. share of expenses on joint arrangements	308
5. receipt from sale of water	(—)8
6. total	96

TABLE 0 : NUMBER OF SAMPLE VILLAGES ALLOTTED AND NUMBER SURVEYED, NUMBER OF SAMPLE HOUSEHOLDS SURVEYED FOR SCHEDULE 22-1, ESTIMATED NUMBER OF TOTAL HOUSEHOLDS AND ESTIMATED NUMBER OF CULTIVATOR HOUSEHOLDS USUALLY USING IRRIGATION AND NUMBER USUALLY NOT USING IRRIGATION

GENERAL SAMPLE		PONDICHERRY
item	(0)	number (1)
1. number of sample villages allotted for survey		40
2. number of sample villages actually surveyed		40
3. number of sample households surveyed for Schedule 22-1		270
4. estimated number of total households ^a (00)		624
5. estimated number of cultivating households (00)		243
(i) usually using irrigation		167
(ii) usually not using irrigation ^b		76

a from listing Schedule—Draft Report No. 291, Part-I.

b from Schedule 22-2—Draft Report No. 312.

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS USUALLY USING IRRIGATION AND AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA SEPARATELY FOR IRRIGABLE LAND AND LAND WITHOUT IRRIGATION FACILITY BY SIZE CLASS OF HOLDING.

GENERAL SAMPLE		PONDICHERRY											
size class of holding (hectare)	no. of house-holds(00) usually using irrigation	irrigable land (hectares 00)				area of land without irrigation facility (hectare 00)							
		area possessed		net area sown	area cropped more than once	gross cropped area	area possessed			net area sown	area cropped more than once	gross cropped area	
(0)	(1)	owned	leased in	(4)	(5)	(6)	(7)	owned	leased in	(10)	(11)	(12)	(13)
less than 0.5	84	11	4	15	15	5	20	2	—	2	1	—	1
0.5-1.0	34	14	7	21	19	7	26	2	1	3	2	—	2
1.0-2.0	26	19	15	34	33	15	49	1	1	2	1	—	1
2.0-4.0	15	21	15	36	33	16	49	3	—	3	3	—	3
4.0-10.0	8	31	10	41	40	18	59	1	—	1	—	—	—
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—	—
all	167	96	51	147	140	61	230	19	2	11	7	—	7

TABLE 2 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING AREA IRRIGATED AND NET AREA IRRIGATED BY SIZE CLASS OF HOLDING AND TYPE OF IRRIGATION

GENERAL SAMPLE													PONDICHERRY	
size class of holding (hectare)	flow						lift						flow & lift com- bined	
	diversion													
	canal	scheme	tank	others	all	well	tube well	river	tank	others	all			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		
no. of households (00) reporting area irrigated														
less than 0.5	5	—	3	—	8	10	45	1	10	9	74	81		
0.5-1.0	7	—	4	—	10	3	21	—	—	1	24	34		
1.0-2.0	9	—	—	—	9	3	14	—	—	—	17	25		
2.0-4.0	6	—	—	—	6	1	7	—	—	1	9	15		
4.0-10.0	4	—	—	—	4	1	5	—	—	1	6	8		
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—		
all	31	—	7	—	37	18	92	1	10	12	130	163		
net area irrigated (hectares 00)														
less than 0.5	1	—	1	—	2	2	10	—	—	—	12	14		
0.5-1.0	5	—	1	—	6	1	11	—	—	—	12	18		
1.0-2.0	12	—	—	—	12	3	18	—	—	—	21	33		
2.0-4.0	14	—	—	—	14	1	16	—	—	—	17	31		
4.0-10.0	19	—	—	—	19	5	15	—	—	—	20	39		
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—		
all	51	—	2	—	53	12	70	—	—	—	82	135		

TABLE 3 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING LIFT IRRIGATION AND NET AREA IRRIGATED BY LIFT BY SIZE CLASS OF HOUSEHOLD HOLDING BY SOURCE OF POWER

GENERAL SAMPLE													PONDICHERRY	
size class of holding (hectare)	no. of households (00) reporting lift irrigation using						net area irrigated (hectares 00) by lift using							
	elec- tricity	diesel	wind- mill	animal	human	all	elec- tricity	diesel	wind- mill	animal	human	all		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		
less than 0.5	47	—	—	—	27	74	11	—	—	—	1	12		
0.5-1.0	20	2	—	—	2	24	11	1	—	—	—	12		
1.0-2.0	12	4	—	—	1	17	19	2	—	—	—	21		
2.0-4.0	7	—	—	—	2	9	17	—	—	—	—	17		
4.0-10.0	6	—	—	—	—	6	20	—	—	—	—	20		
10.0 & above	—	—	—	—	—	—	—	—	—	—	—	—		
all	92	6	—	—	32	130	78	3	—	—	1	82		

TABLE 4 : ESTIMATES OF NET AREA IRRIGATED BY TYPE OF IRRIGATION AND OWNERSHIP OF SOURCE OF WATER FOR IRRIGATION

GENERAL SAMPLE												PONDICHERY
ownership of source of water for irrigation	net area irrigated (hectares 00) by type of irrigation											
	flow					lift					flow & lift combined	
	canal	diversion scheme	tank	others	all	well	tube-well	river	tank	others		all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
government	51	2	—	—	53	—	1	—	—	—	1	54
co-operative	—	—	—	—	—	—	—	—	—	—	—	—
private-joint	—	—	—	—	—	—	5	—	—	—	5	5
private single	—	—	—	—	—	12	64	—	—	—	76	76
all	51	2	—	—	53	12	70	—	—	—	82	135

TABLE 5 : ESTIMATES OF NET AREA IRRIGATED BY OWNERSHIP OF LIFTING EQUIPMENT AND BY SOURCE OF POWER

GENERAL SAMPLE												PONDICHERY
ownership of lifting equipment	net area irrigated (hectares 00) by source of power											
	elec-	diesel	wind	animal	human	all						
	tricity		mill	drawn	drawn							
(0)	(1)	(2)	(3)	(4)	(5)	(6)						
government	—	—	—	—	—	—						
co-operative	—	—	—	—	—	—						
private-joint	6	—	—	—	—	6						
private-single	72	3	—	—	1	76						
all	78	3	—	—	1	82						

TABLE 6 : ESTIMATES OF AREA SOWN HAVING IRRIGATION FACILITY BUT NOT IRRIGATED BY SIZE CLASS OF HOLDING AND REASON FOR NOT IRRIGATION

PONDICHERRY

GENERAL SAMPLE

size class of holding (hectare)	area (hectares 00) by reason for not irrigation			
	adequate rainfall	non-availa- bility of water	other rea- sons	all rea- sons
00	(1)	(2)	(3)	(4)
less than 0.5	—	—	1	1
0.5—1.0	—	1	—	1
1.0—2.0	—	—	1	1
2.0—4.0	—	—	2	2
4.0—10.0	—	—	—	—
10.0 & above	—	—	—	—
all	—	1	4	5

TABLE 7 : ESTIMATES OF NUMBER OF PARCELS OF IRRIGABLE LAND POSSESSED, TOTAL AREA OF PLOT, NET AREA IRRIGATED, NET AREA NOT IRRIGATED AND NET AREA SOWN BY SIZE CLASS OF PARCELS

PONDICHERRY

GENERAL SAMPLE

size class of parcels (hectare)	area (hectares 00)				
	number of parcels (00)	total irriga- ble land	net area irrigated	net area not irrigated	net area sown
(0)	(1)	(2)	(3)	(4)	(5)
less than 0.05	27	1	—	—	—
0.05—0.1	18	1	1	—	1
0.1—0.2	48	6	6	—	6
0.2—0.3	46	12	11	1	12
0.3—0.4	7	2	2	—	2
0.4—0.5	28	12	10	—	10
0.5—1.0	50	35	32	1	33
1.0—2.0	35	45	43	1	44
2.0 & above	13	33	30	2	32
all	272	147	135	5	140

Parcel : A plot or contiguously located plots having a common source of irrigation facility possessed by the household was treated as a parcel

TABLE 8 : ESTIMATE OF AREA (I) UNDER CROP, (II) APPLIED WITH FERTILISER, (III) APPLIED WITH MANURE, (IV) AFFECTED BY PESTS & DISEASES, (V) SPRAYED WITH PESTICIDES AND (VI) OF CROPS FINALLY DAMAGED AND VALUE OF (I) FERTILISERS USED, (II) MANURE USED AND (III) PESTICIDES SPRAYED SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP.

GENERAL SAMPLE

PONDICHERRY

crop/crop group	area (hectares 00)						value (Rs. 000) of			
	under crop	applied with fertiliser	applied with manure	affected by pest & diseases	sprayed with pesticides	of crops finally damaged	fertiliser used	manure used	pesticides sprayed	
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
irrigated crops										
paddy	146	140	120	121	113	5	6402	1572	791	
all cereals	155	147	128	125	117	5	6768	1754	811	
all pulses	—	—	—	—	—	—	—	1	—	
all oilseeds	10	8	8	5	5	1	249	167	34	
all other crops	15	13	10	2	2	1	1903	492	51	
all crops	180	168	146	132	124	7	8920	2414	896	
unirrigated crops										
paddy	1	1	1	1	—	—	31	45	—	
all cereals	4	1	3	1	—	—	31	65	—	
all pulses	11	—	—	—	—	—	—	—	—	
all oilseeds	3	1	3	1	1	—	17	75	4	
all other crops	12	—	3	—	—	—	—	55	3	
all crops	30	2	9	2	1	—	48	195	7	

TABLE 9 : ESTIMATES OF AREA UNDER CROP, AREA APPLIED WITH FERTILISER AND MANURE AND AREA AFFECTED BY PESTS & DISEASES FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP SEPARATELY FOR ORDINARY AND IMPROVED VARIETIES OF SEEDS.

GENERAL SAMPLE

PONDICHERRY

crop/crop group	irrigated crops area (hectares 00)				unirrigated crop area (hectares 00)			
	total	applied with fertiliser	applied with manure	affected by pests & diseases	total	applied with fertilisers	applied with manure	affected by pests & diseases
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
ordinary variety								
paddy	52	49	48	39	1	1	1	1
all cereals	59	55	54	43	4	1	3	1
all pulses	—	—	—	—	11	—	—	—
all oil seeds	10	7	8	5	3	1	3	1
all other crops	12	10	9	2	12	—	2	—
all crops	81	72	71	50	30	2	8	2
improved variety								
paddy	94	91	72	81	—	—	1	—
all cereals	96	93	74	81	—	1	1	—
all pulses	—	—	—	—	—	—	—	—
all oil seeds	—	—	—	—	—	—	—	—
all other crops	3	3	1	1	—	—	—	—
all crops	99	96	75	82	—	—	1	—

TABLE 10 : ESTIMATES OF AREA UNDER CROP APPLIED WITH FERTILISERS HAVING NUTRIENTS NONLY, NP ONLY, NPK ONLY AND OTHERS SEPARATELY FOR IRRIGATED AND UNIRRIGATED CROPS BY CROP/CROP GROUP

GENERAL SAMPLE						PONDICHERRY				
crop/crop group	irrigated area (hectares 00) applied with fertilisers having nutrients					unirrigated area (hectares 00) applied with fertilisers having nutrients				
	N only	NP only	NPK only	others	total	N only	NP only	NPK only	others	total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
paddy	140	—	—	—	140	—	—	—	1	1
all cereals	145	—	2	—	147	—	—	—	1	1
all pulses	—	—	—	—	—	—	—	—	—	—
all oilseeds	8	—	—	—	8	—	—	—	—	—
all other crops	5	8	—	—	13	—	—	—	—	—
all crops	158	8	2	—	168	—	—	—	1	1

'N' only means nitrogenous fertilisers like ammonium sulphate, ammonium sulphate nitrate, calcium ammonium nitrate ammonium chloride and urea.

'NP' only means nitrogenous phosphate fertilisers like ammonium phosphate, ammonium phosphate sulphate, diammonium phosphate, urea ammonium phosphate and ammonium nitrate phosphate. It also includes phosphate fertilisers like single super phosphate, triple super phosphate and palfos in combination with nitrogenous fertilisers containing 'N' only.

'NPK' only means nitrogenous phosphatic potash fertilisers like nitrophosphate and NPK complex fertilisers. It also includes potash fertilisers like sulphate of potash in combination with 'NPK' fertilisers noted under 'NP' above.

TABLE 11 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND TYPE OF IRRIGATION

GENERAL SAMPLE						PONDICHERRY						
crop/crop group	area (hectares 00) under irrigated crops by type of irrigation											
	flow					lift					flow and lift combined	
	canal	diversion scheme	tank	others	total	well	tube well	river	tank	others		total
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
paddy	71	—	3	—	74	10	62	—	—	—	72	146
all cereals	71	—	3	—	74	10	71	—	—	—	81	155
all pulses	—	—	—	—	—	—	—	—	—	—	—	—
all oilseeds	—	—	—	—	—	1	9	—	—	—	10	10
all other crops	—	—	—	—	—	2	12	—	—	1	15	15
all crops	71	—	3	—	74	13	92	—	—	1	106	180

TABLE 12 : ESTIMATES OF AREA UNDER IRRIGATED CROPS BY CROP/CROP GROUP AND NUMBER OF TIMES IRRIGATED

GENERAL SAMPLE		PONDICHERRY				
crop/crop group		crop area (hectares 00) irrigated				total
		once	twice	thrice	more than thrice	
(0)		(1)	(2)	(3)	(4)	(5)
paddy		—	—	—	146	146
all cereals		—	—	—	155	155
all pulses		—	—	—	—	—
all oilseeds		—	—	—	10	10
all other crops		—	—	—	15	15
all crops		—	—	—	180	180

TABLE 13 : ESTIMATES OF AREA UNDER IRRIGATED CROPS WITH SUBSIDIARY IRRIGATION AND WITHOUT SUBSIDIARY IRRIGATION BY CROP/CROP GROUP

GENERAL SAMPLE		PONDICHERRY		
crop/crop group		area (hectares 00) under irrigated crops		total
		with subsidiary irrigation	without subsidiary irrigation	
(0)		(1)	(2)	(3)
paddy		22	124	146
all cereals		22	133	155
all pulses		—	—	—
all oilseeds		—	10	10
all other crops		1	14	15
all crops		23	157	180

TABLE 14 : ESTIMATES OF VALUE OF AGRICULTURAL IMPLEMENTS, IRRIGATION EQUIPMENTS AND DRAUGHT ANIMALS (ADULT CATTLES AND BUFFALOES—3 YEARS OR MORE) OWNED BY HOUSEHOLDS BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE		PONDICHERRY					
value (Rs. 000) of agricultural implements, irrigation equipments and draught animals by size class of holding (hectare)							
Items of assets	less than 0.5	0.5—1.0	1.0—2.0	2.0—4.0	4.0—10.0	10.0 & above	all
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
agricultural implements							
1. tractor	—	—	—	3441	2480	—	5921
2. power tiller	—	—	—	—	—	—	—
3. sprayer	—	—	6	37	—	—	4
4. duster	—	—	2	—	—	—	2
5. thresher	—	—	—	—	—	—	—
6. cane crusher	—	—	—	—	—	—	—
7. oil crusher	—	—	—	—	—	—	—
8. all	—	—	8	3478	2480	—	5966
irrigation equipments							
1. electric pumps	1021	1148	1508	2096	2058	—	7831
2. diesel pumps	47	114	465	—	—	—	626
3. wind-mill	—	—	—	—	—	—	—
4. moat	—	—	—	—	—	—	—
5. persian wheel	—	—	—	—	—	—	—
6. others (animal-driven)	—	—	—	—	—	—	—
7. counter poise	3	—	—	—	—	—	3
8. manual pumps	—	—	—	—	—	—	—
9. others	10	—	1	—	—	—	11
10. all	1081	1262	1974	2096	2058	—	8471
draught animals							
1. cattles	307	625	288	991	660	—	2871
2. buffaloes	4	—	78	19	198	—	299
3. all	311	625	366	1010	858	—	3170
total	1392	1887	2348	6584	5396	—	17607

TABLE 15 : ESTIMATES OF NUMBER OF HOUSEHOLDS REPORTING PUMPSETS AND NUMBER OF PUMPSETS POSSESSED BY SIZE CLASS OF HOUSEHOLD HOLDING

GENERAL SAMPLE		PONDICHERRY	
size class of holding (hectare)		no. of households reporting pumpsets (00)	no. of pumpsets* (00)
(0)		(1)	(2)
less than 0.5		7	7
0.5—1.0		6	6
1.0—2.0		12	12
2.0—4.0		7	10
4.0—10.0		4	7
10.0 & above		—	—
all		36	42

*In this and subsequent tables on number of pumpsets, the number includes those possessed jointly as well as on rent. In the case of jointly possessed, instead of the house share of the number possessed, the total number possessed jointly has been counted as possessed by the sample household. Hence the estimated number of pumpsets is inflated to some extent.

TABLE 16 : ESTIMATES OF NUMBER OF PUMPSETS POSSESSED BY SOURCE OF POWER AND HORSE POWER
GENERAL SAMPLE

PONDICHERRY

horse power	no. of pumpsets* (00) having source of power			
	elec- tricity	diesel	both electricity & diesel	total
(0)	(1)	(2)	(3)	(4)
less than 1.0	—	—	—	—
1.0—2.0	—	—	—	—
2.0—3.0	—	—	—	—
3.0—4.0	—	—	—	—
4.0—5.0	—	—	—	—
5.0 & above	38	4	—	—
total	38	4	—	42

*see foot note on table 15

TABLE 17 : ESTIMATES OF NUMBER OF PUMPSETS* AND HOUSEHOLD'S SHARE OF VALUE OF OWNED EQUIPMENTS BY TYPE OF POSSESSION AND SOURCE OF POWER

GENERAL SAMPLE

PONDICHERRY

source of power	possession type							
	owned singly		owned jointly		rented		total	
	no. of pump- sets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pump- sets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pump- sets (00)	hh's share of value of owned equipments (Rs. 000)	no. of pump- sets (00)	hh's share of value of owned equip- ments (Rs. 000)
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
electricity	28	6564	9	1051	1	—	38	7615
diesel	2	540	1	52	1	—	4	592
electricity & diesel	—	—	—	—	—	—	—	—
all	30	7104	10	1103	2	—	42	8207

*see foot note on table 15.

TABLE 18 : ESTIMATES OF NUMBER OF PUMP-SETS* REPORTING AREA IRRIGATED BY SOURCE OF POWER AND SOURCE OF WATER SEPARATELY BY POSSESSION TYPE

GENERAL SAMPLE

PONDICHERRY

source of power	no. of pumpsets (00) reporting area irrigated by source of water				total
	well	tube-well	rivers & streams	others	
(0)	(1)	(2)	(3)	(4)	(5)
<i>owned singly</i>					
1. electricity	2	25	—	—	27
2. diesel	—	2	—	—	2
3. both electricity & diesel	—	—	—	—	—
4. all	2	27	—	—	29
<i>owned jointly</i>					
1. electricity	—	9	—	—	9
2. diesel	1	—	—	—	1
3. both electricity & diesel	—	—	—	—	—
4. all	1	9	—	—	10
<i>rented</i>					
1. electricity	1	—	—	—	1
2. diesel	—	1	—	—	1
3. both electricity & diesel	—	—	—	—	—
4. all	1	1	—	—	2
<i>total</i>					
1. electricity	3	34	—	—	37
2. diesel	1	3	—	—	4
3. both electricity & diesel	—	—	—	—	—
4. all	4	37	—	—	41

*see foot note on table 15.

TABLE 19 : ESTIMATES OF EXPENSES FOR IRRIGATION ON OTHER THAN CAPITAL ACCOUNT BY ITEM OF EXPENDITURE

GENERAL SAMPLE

PONDICHERRY

item of expenditure	amount (Rs. 000)
(0)	(1)
1. repair and maintenance expenditure on bunds and field channels	623
2. water charges	2194
3. other expenses on independently owned lift irrigation	1347
4. share of expenses on joint arrangements	289
5. receipt from sale of water	(—)257
6. total	4196

RESULTS ON UNIRRIGATED HOUSEHOLD HOLDINGS— STATES AND ALL-INDIA : NSS 31ST ROUND (JULY 1976—JUNE 1977)

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state/union territory (1)	number of sample villages		number of sample households surveyed for Schedule 22.2 (4)
	allotted (2)	surveyed (3)	
Andhra Pradesh	672	672	3490
Assam	456	456	8798
Bihar	712	712	8038
Gujarat	312	312	4066
Haryana	144	144	335
Himachal Pradesh	248	248	3179
Jammu & Kashmir	440	440	5325
Karnataka	312	312	4635
Kerala	360	360	5820
Madhya Pradesh	640	640	10071
Maharashtra	528	528	7482
Manipur	120	120	1567
Orissa	304	304	4820
Punjab	344	342	295
Rajasthan	360	360	3644
Tamil Nadu	672	672	3423
Tripura	120	111	1156
Uttar Pradesh	968	967	3365
West Bengal	488	488	4958
Delhi	24	24	53
Goa, Daman & Diu	40	40	596
Pondicherry	40	40	122
All India	8304	8292	85238

TABLE 1 : ESTIMATES OF NUMBER OF HOUSEHOLDS, AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA BY SIZE CLASS OF HOLDING FOR HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND.

GENERAL SAMPLE

size class of holding (hectare)	number of house- holds (00)	(in hectares 00)					
		area possessed			net area sown	area crop- ped more than once	gross cropped area
		total	owned	leased-in			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<i>ANDHRA PRADESH</i>							
below 0.5	3702	929	846	83	872	326	1342
0.5-1.0	2179	1609	1512	97	1508	123	1638
1.0-2.0	2541	3544	3397	147	3266	154	3433
2.0-4.0	2567	6691	6194	497	6145	217	6384
4.0-10.0	1917	11263	10033	1230	10015	384	10412
10.0 & above	352	5698	5290	408	4705	453	5207
all	13258	29734	27272	2462	26511	1657	28416
<i>ASSAM</i>							
below 0.5	5071	1337	968	369	1081	300	1395
0.5-1.0	5350	3997	3574	423	3505	1128	4645
1.0-2.0	5703	8040	7328	712	7231	2318	9593
2.0-4.0	2393	6332	5787	545	5791	1756	7577
4.0-10.0	678	3547	3360	187	3292	1108	4423
10.0 & above	33	444	444	—	386	53	455
all	19228	23697	21461	2236	21286	6663	28088
<i>BIHAR</i>							
below 0.5	17376	4052	3447	605	3725	1830	5597
0.5-1.0	9238	6694	5919	775	6334	2094	8448
1.0-2.0	6565	9044	8077	967	8543	2888	11523
2.0-4.0	3243	8525	7875	650	7897	2524	10481
4.0-10.0	1009	5647	5405	242	5224	1160	6384
10.0 & above	56	737	729	8	721	156	877
all	37487	34699	31452	3247	32444	10652	43310
<i>GUJARAT</i>							
below 0.5	1783	537	524	13	528	50	694
0.5-1.0	2276	1738	1707	31	1663	137	1803
1.0-2.0	3265	4647	4558	89	4435	218	4655
2.0-4.0	2988	8341	8115	226	7967	194	8185
4.0-10.0	2333	14229	14078	151	13482	83	13565
10.0 & above	840	12071	11887	184	11548	—	11548
all	13485	41563	40869	694	39623	682	40350

TABLE 1 : Contd. ESTIMATES OF NUMBER OF HOUSEHOLDS, AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA BY SIZE CLASS OF HOLDING FOR HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND

GENERAL SAMPLE										
size class of holding (hectare)	number of house- holds (00)	(in hectares 00)					net area sown	area crop- ped more than once	gross crop- ped area	
		area possessed			net area sown	area crop- ped more than once				gross crop- ped area
		total	owned	leased-in						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
<i>HARYANA</i>										
below 0.5	178	58	55	3	55	41	96			
0.5—1.0	158	120	96	24	117	72	189			
1.0—2.0	284	406	345	61	399	208	607			
2.0—4.0	330	890	710	180	876	286	1162			
4.0—10.0	315	1898	1496	402	1826	401	2227			
10.0 & above	58	894	657	237	881	108	989			
all	1323	4266	3359	907	4154	1116	5270			
<i>HIMACHAL PRADESH</i>										
below 0.5	1000	300	289	11	255	208	463			
0.5—1.0	1128	826	808	18	679	526	1209			
1.0—2.0	1049	1472	1428	44	1145	822	1969			
2.0—4.0	520	1382	1329	53	976	721	1699			
4.0—10.0	133	725	703	22	389	287	676			
10.0 & above	12	152	152	—	60	38	98			
all	3842	4857	4709	148	3504	2602	6114			
<i>JAMMU AND KASHMIR</i>										
below 0.5	555	161	157	4	128	33	163			
0.5—1.0	696	506	491	15	385	117	504			
1.0—2.0	805	1135	1086	49	868	260	1128			
2.0—4.0	341	916	857	59	698	163	862			
4.0—10.0	52	272	268	4	205	40	245			
10.0 & above	1	12	12	—	2	1	3			
all	2450	3002	2871	131	2286	614	2905			
<i>KARNATAKA</i>										
below 0.5	2386	706	603	103	653	37	690			
0.5—1.0	3030	2283	2100	183	2144	112	2257			
1.0—2.0	4503	6372	5922	450	6005	278	6296			
2.0—4.0	3803	10256	9620	636	9454	368	9823			
4.0—10.0	2631	15675	14505	1170	14170	287	14470			
10.0 & above	797	12164	10766	1398	10901	118	11019			
all	17150	47456	43516	3940	43327	1200	44555			

TABLE 1 Contd. : ESTIMATES OF NUMBER OF HOUSEHOLDS, AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA BY SIZE CLASS OF HOLDING FOR HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND

GENERAL SAMPLE

size class of holding (hectare)	number of house- holds (00)	(in hectares 00)						
		area possessed			net area sown	area crop- ped more than once	gross cropped area	
		total	owned	leased-in				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
KERALA								
below 0.5	13912	2027	1949	78	1729	365	2097	
0.5-1.0	2104	1480	1403	77	1352	328	1686	
1.0-2.0	1253	1686	1623	63	1544	304	1853	
2.0-4.0	524	1384	1317	67	1281	189	1480	
4.0-10.0	107	595	547	48	546	56	602	
10.0 & above	—	—	—	—	—	—	—	
all	17900	7172	6839	333	6452	1242	7718	
MADHYA PRADESH								
below 0.5	5032	1322	1167	155	1183	114	1297	
0.5-1.0	5206	3861	3596	265	3713	810	4523	
1.0-2.0	9227	13334	12463	871	12729	2124	14866	
2.0-4.0	9928	27484	25644	1840	25884	2761	28662	
4.0-10.0	6771	39459	37984	1475	35981	3156	39240	
10.0 & above	1264	19087	18466	621	16343	1124	17736	
all	37428	104547	99320	5227	95833	10089	106324	
MAHARASHTRA								
below 0.5	3948	1111	1042	69	970	83	1053	
0.5-1.0	4213	3133	3013	120	2742	238	2984	
1.0-2.0	6220	8811	8532	279	7583	533	8121	
2.0-4.0	6434	17861	17344	517	15287	686	15987	
4.0-10.0	5385	32163	30905	1258	26778	841	27643	
10.0 & above	1375	19916	18756	1160	16390	550	16969	
all	27575	82995	79592	3403	69750	2931	72757	
MANIPUR								
below 0.5	204	61	57	4	54	3	58	
0.5-1.0	421	285	243	42	267	3	270	
1.0-2.0	398	517	428	89	500	11	516	
2.0-4.0	113	293	200	93	286	5	296	
4.0-10.0	10	46	32	14	40	—	40	
10.0 & above	2	90	11	79	30	27	84	
all	1148	1292	971	321	1177	49	1264	

TABLE 1. Contd. : ESTIMATES OF NUMBER OF HOUSEHOLDS, AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA BY SIZE CLASS OF HOLDING FOR HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND.

GENERAL SAMPLE

size class of holding (hectare)	number of house- holds (00)	(in hectares 00)						
		area possessed			net area sown	area crop- ped more than once	gross cropped area	
		total	owned	leased-in				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
<i>ORISSA</i>								
below 0.5	5487	1530	1400	130	1409	120	1529	
0.5-1.0	4582	3408	3130	278	3226	270	3496	
1.0-2.0	5424	7597	6874	723	7258	466	7728	
2.0-4.0	3088	8179	7513	666	7790	435	8226	
4.0-10.0	937	4981	4518	463	4735	176	4913	
10.0 & above	92	1212	1208	4	1172	49	1221	
all	19610	26907	24643	2264	25590	1516	27113	
<i>PUNJAB</i>								
below 0.5	80	19	17	2	17	14	32	
0.5-1.0	88	65	57	8	61	41	102	
1.0-2.0	121	173	132	41	156	108	264	
2.0-4.0	142	390	261	129	371	192	563	
4.0-10.0	73	391	307	84	347	164	512	
10.0 & above	9	120	120	—	102	35	138	
all	513	1158	894	264	1054	554	1611	
<i>RAJASTHAN</i>								
below 0.5	1568	490	480	10	442	125	567	
0.5-1.0	2291	1642	1598	44	1617	327	1986	
1.0-2.0	3117	4375	4222	153	3976	632	4608	
2.0-4.0	3156	8844	8600	244	8304	778	9239	
4.0-10.0	4231	27638	26706	932	24260	950	25457	
10.0 & above	2818	49932	47323	2609	40906	1486	43600	
all	17181	92921	88929	3992	79505	4298	85457	
<i>TAMIL NADU</i>								
below 0.5	5857	1299	1172	127	1207	68	1275	
0.5-1.0	2717	1977	1786	191	1858	120	1978	
1.0-2.0	2425	3310	2997	313	3097	225	3322	
2.0-4.0	898	2337	2120	217	2168	177	2345	
4.0-10.0	236	1230	1148	82	1117	86	1203	
10.0 & above	16	252	204	48	124	24	172	
all	12149	10405	9427	978	9571	700	10295	

TABLE 1 Contd : ESTIMATES OF NUMBER OF HOUSEHOLDS, AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA BY SIZE CLASS OF HOLDING FOR HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND.

GENERAL SAMPLE

size class of holding (hectare)	number of households (00)	(in hectares 00)						
		are possessed			net area sown	area cropped more than once	gross cropped area	
		total	owned	leased-in				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
TRIPURA								
below 0.5	721	168	147	21	129	64	194	
0.5-1.0	476	347	309	38	285	137	425	
1.0-2.0	366	501	455	46	414	200	615	
2.0-4.0	112	283	272	11	236	98	335	
4.0-10.0	5	23	23	—	21	6	27	
10.0 & above	—	—	—	—	—	—	—	
all	1680	1322	1206	116	1085	505	1596	
UTTAR PRADESH								
below 0.5	6197	1707	1573	134	1598	752	2350	
0.5-1.0	4933	3594	3280	314	3426	1425	4854	
1.0-2.0	4860	6801	6419	382	6515	2009	8533	
2.0-4.0	2396	6622	6323	299	6268	1460	7775	
4.0-10.0	1192	6853	6663	190	6140	647	6787	
10.0 & above	199	3317	3011	306	2681	475	3438	
all	19777	28894	27269	1625	26628	6768	33737	
WEST BENGAL								
below 0.5	11858	2467	2110	357	2126	566	2706	
0.5-1.0	5096	3713	3148	565	3404	966	4370	
1.0-2.0	4080	5558	4787	771	5098	1673	6799	
2.0-4.0	1461	3893	3543	350	3538	1165	4708	
4.0-10.0	264	1328	1299	29	1101	364	1465	
10.0 & above	4	47	47	—	46	9	55	
all	22763	17006	14934	2072	15313	4743	20103	
DELHI								
below 0.5	25	9	3	6	9	6	15	
0.5-1.0	13	10	6	4	8	7	15	
1.0-2.0	6	8	6	2	8	7	15	
2.0-4.0	9	26	26	—	25	18	43	
4.0-10.0	3	16	16	—	14	3	17	
10.0 & above	—	—	—	—	—	—	—	
all	56	69	57	12	64	41	105	

TABLE 1 Contd. : ESTIMATES OF NUMBER OF HOUSEHOLDS, AREA POSSESSED, NET AREA SOWN, AREA CROPPED MORE THAN ONCE AND GROSS CROPPED AREA BY SIZE CLASS OF HOLDING FOR HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND.

GENERAL SAMPLE

size class of holding (hectare)	number of households (00)	(in hectares 00)					
		area possessed					gross cropped area
		total	owned	leased-in	net area sown	area cropped more than once	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<i>GOA, DAMAN AND DIU</i>							
below 0.5	247	63	48	15	59	2	61
0.5-1.0	114	79	59	20	74	5	79
1.0-2.0	32	39	26	13	35	3	38
2.0-4.0	4	11	10	1	11	—	11
4.0-10.0	2	10	9	1	10	—	10
10.0 & above	—	—	—	—	—	—	—
all	399	202	152	50	189	10	199
<i>PONDICHERY</i>							
below 0.5	64	10	9	1	9	—	9
0.5-1.0	6	3	3	—	3	—	3
1.0-2.0	6	7	6	1	7	—	7
4.0-10.0	—	—	—	—	—	—	—
10.0 & above	—	—	—	—	—	—	—
all	76	20	18	2	19	—	19
<i>ALL INDIA</i>							
below 0.5	87251	20363	18063	2300	18238	5107	23583
0.5-1.0	56315	41370	37838	3532	38371	8986	47464
1.0-2.0	62250	87377	81111	6266	80812	15441	96489
2.0-4.0	44450	120940	113660	7280	111253	14193	125843
4.0-10.0	28284	167989	160005	7984	149693	10199	160318
10.0 & above	7928	126145	119083	7062	106998	4706	113609
all	286478	564184	529760	34424	505365	58632	567306

TABLE 2 : ESTIMATES OF AREA IN THE POSSESSION OF HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND BY TYPE OF LAND AND SIZE CLASS OF HOLDING.

GENERAL SAMPLE

size class of holding (hectare)	area (hectares 00) by type of land				total
	irrigation feasible	irrigation not feasible	no need for irrigation	not under agricultural use	
(1)	(2)	(3)	(4)	(5)	(6)
ANDHRA PRADESH					
below 0.5	403	455	26	45	929
0.5-1.0	765	741	53	50	1609
1.0-2.0	1706	1644	70	124	3544
2.0-4.0	3131	3277	76	207	6691
4.0-10.0	5459	5387	32	385	11263
10.0 & above	3379	1845	58	416	5698
all	14843	13349	315	1227	29734
ASSAM					
below 0.5	593	58	447	239	1337
0.5-1.0	2377	220	983	417	3997
1.0-2.0	4912	727	1772	629	8040
2.0-4.0	3836	665	1447	384	6332
4.0-10.0	2118	652	607	170	3547
10.0 & above	194	162	40	48	444
all	14030	2484	5296	1887	23697
BIHAR					
below 0.5	3130	546	101	275	4052
0.5-1.0	5071	1155	236	232	6694
1.0-2.0	6903	1530	379	232	9044
2.0-4.0	6268	1734	338	185	8525
4.0-10.0	4189	1042	257	159	5647
10.0 & above	610	79	37	11	737
all	26171	6086	1348	1094	34699
GUJARAT					
below 0.5	181	338	11	7	537
0.5-1.0	843	809	23	63	1738
1.0-2.0	2418	1998	49	182	4647
2.0-4.0	3873	4032	159	277	8341
4.0-10.0	5628	7399	796	406	14229
10.0 & above	4044	7064	792	171	12071
all	16987	21640	1830	1106	41563

TABLE 2 Contd. : ESTIMATES OF AREA IN THE POSSESSION OF HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND BY TYPE OF LAND AND SIZE CLASS OF HOLDING

GENERAL SAMPLE

size class of holding (hectare)	area (hectares 00) by type of land				total
	irrigation feasible	irrigation not feasible	no need for irrigation	not under agricultural use	
(1)	(2)	(3)	(4)	(5)	(6)
HARYANA					
below 0.5	48	3			
0.5-1.0	94	16	4	3	58
1.0-2.0	343	47	7	3	120
2.0-4.0	646	206	11	5	406
4.0-10.0	1561	243	31	7	890
10.0 & above	837	54	85	9	1898
all	3529	569	138	3	894
					4266
HIMACHAL PRADESH					
below 0.5	143	110			
0.5-1.0	412	268	5	42	300
1.0-2.0	659	482	15	131	826
2.0-4.0	606	366	30	301	1472
4.0-10.0	236	199	30	380	1382
10.0 & above	33	27	5	285	725
all	2089	1452	85	92	152
					4857
JAMMU & KASHMIR					
below 0.5	26	95			
0.5-1.0	78	294	7	33	161
1.0-2.0	263	568	17	117	506
2.0-4.0	273	419	45	259	1135
4.0-10.0	113	82	18	206	916
10.0 & above	2		11	66	272
all	755	1458	98	10	12
					3002
KARNATAKA					
below 0.5	291	331			
0.5-1.0	905	1197	42	42	706
1.0-2.0	2676	3175	102	79	2283
2.0-4.0	4559	4802	325	196	6372
4.0-10.0	7481	6669	443	452	10256
10.0 & above	4747	6247	777	748	15675
all	20659	22421	353	817	12164
					47456

TABLE 2 Contd. : ESTIMATES OF AREA IN THE POSSESSION OF HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND BY TYPE OF LAND AND SIZE CLASS OF HOLDING

GENERAL SAMPLE							
size class of holding (hectare)	area (hectares 00) by type of land						total holding (hectares)
	irrigation not feasible	irrigation not feasible	no need for irrigation	not under agricultural use			
(1)	(2)	(3)	(4)	(5)	(6)	(6)	
KERALA							
below 0.5	552	446	765	264	2027		
0.5-1.0	427	361	595	97	1480		
1.0-2.0	453	410	720	103	1686		
2.0-4.0	350	409	559	66	1384		
4.0-10.0	117	198	268	12	595		
10.0 & above	—	—	—	—	—		
all	1899	1824	2907	542	7172		
MADHYA PRADESH							
below 0.5	537	652	27	106	1322		
0.5-1.0	1785	1916	80	80	3861		
1.0-2.0	5991	6874	193	276	13334		
2.0-4.0	12830	13665	439	550	27484		
4.0-10.0	18470	19114	477	1398	39459		
10.0 & above	9449	7891	206	1541	19087		
all	49062	50112	1422	3951	104547		
MAHARASHTRA							
below 0.5	428	572	12	99	1111		
0.5-1.0	1353	1491	47	242	3133		
1.0-2.0	4205	3741	119	746	8811		
2.0-4.0	9243	6968	215	1435	17861		
4.0-10.0	16782	11637	548	3196	32163		
10.0 & above	9142	8851	128	1795	19916		
all	41153	33260	1069	7513	82995		
MANIPUR							
below 0.5	3	26	25	7	61		
0.5-1.0	46	133	88	18	285		
1.0-2.0	78	294	130	15	517		
2.0-4.0	49	153	84	7	293		
4.0-10.0	—	40	—	6	46		
10.0 & above	—	30	—	60	90		
all	176	676	327	113	1292		

TABLE 2 Contd. : ESTIMATES OF AREA IN THE POSSESSION OF HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND BY TYPE OF LAND AND SIZE CLASS OF HOLDING

GENERAL SAMPLE							
size class of holding (hectare)	area (hectres 00) by type of land						total
	irrigation feasible	irrigation not feasible	no need for irrigation	not under agricultural use			
(1)	(2)	(3)	(4)	(5)	(6)	(6)	
ORISSA							
below 0.5	890	522	17	101		1530	
0.5 —1.0	2203	1054	35	116		3408	
1.0 —2.0	4972	2371	45	209		7597	
2.0 —4.0	4918	3003	86	172		8179	
4.0—10.0	3016	1845	13	107		4981	
10.0 & above	669	531	—	12		1212	
all	16668	9326	196	717		26907	
PUNJAB							
below 0.5	5	11	1	2		19	
0.5 —1.0	41	20	—	4		65	
1.0 —2.0	128	29	3	13		173	
2.0 —4.0	271	97	11	11		390	
4.0—10.0	321	64	—	6		391	
10.0 & above	105	—	—	15		120	
all	871	221	15	51		1158	
RAJASTHAN							
below 0.5	300	127	26	36		489	
0.5 —1.0	1129	440	52	21		1642	
1.0 —2.0	2926	1187	63	200		4376	
2.0 —4.0	5863	2572	130	279		8844	
4.0—10.0	17341	9680	86	532		27639	
10.0 & above	32661	13790	50	3431		49932	
all	60220	27796	407	4499		92922	
TAMIL NADU							
below 0.5	782	365	91	61		1299	
0.5 —1.0	1225	610	98	44		1977	
1.0 —2.0	2113	967	176	54		3310	
2.0 —4.0	1509	629	161	38		2337	
4.0—10.0	642	290	281	17		1230	
10.0 and above	110	29	—	113		252	
all	6381	2890	807	327		10405	

TABLE 2 Contd : ESTIMATES OF AREA IN THE POSSESSION OF HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND BY TYPE OF LAND AND SIZE CLASS OF HOLDING

GENERAL SAMPLE						
size class of holding (hectare)	area (hectares 00) by type of land					total
	irrigation feasible	irrigation not feasible	no need for irrigation	not under agricultural use		
(1)	(2)	(3)	(4)	(5)	(6)	
TRIPURA						
below 0.5	25	86	23	34	168	
0.5 —1.0	73	196	32	46	347	
1.0 —2.0	94	301	49	57	501	
2.0 —4.0	50	178	33	22	283	
4.0—10.0	7	13	1	2	23	
10.0 and above	—	—	—	—	—	
all	249	774	138	161	1322	
UTTAR PRADESH						
below 0.5	1279	274	69	85	1707	
0.5 —1.0	2775	555	149	115	3594	
1.0 —2.0	5210	1211	215	165	6801	
2.0 —4.0	5358	972	201	91	6622	
4.0—10.0	5649	915	155	134	6853	
10.0 & above	2163	565	209	380	3317	
all	22434	4492	998	970	28894	
WEST BENGAL						
below 0.5	1733	242	156	336	2467	
0.5 —1.0	2941	257	269	246	3713	
1.0 —2.0	4619	341	278	320	5558	
2.0 —4.0	3107	365	208	213	3893	
4.0—10.0	1018	109	77	124	1328	
10.0 & above	46	—	—	1	47	
all	13464	1314	988	1240	17006	
DELHI						
below 0.5	8	1	—	—	9	
0.5 —1.0	6	3	—	1	10	
1.0 —2.0	6	2	—	—	8	
2.0 —4.0	21	5	—	—	26	
4.0—10.0	4	5	7	—	16	
10.0 & above	—	—	—	—	—	
all	45	16	7	1	69	

TABLE 2 Contd. : ESTIMATES OF AREA IN THE POSSESSION OF HOUSEHOLDS POSSESSING ONLY UNIRRIGATED LAND BY TYPE OF LAND AND SIZE CLASS OF HOLDING

GENERAL SAMPLE

size class of holding (hectare)	area (hectares 00) by type of land				total
	irrigation feasible	irrigation not feasible	no need for irrigation	not under agricultural use	
(1)	(2)	(3)	(4)	(5)	(6)
GOA, DAMAN AND DIU					
below 0.5	31	26	3	3	63
0.5-1.0	38	33	5	3	79
1.0-2.0	19	16	3	1	39
2.0-4.0	2	3	6	—	11
4.0-10.0	3	1	6	—	10
10.0 & above	—	—	—	—	—
all	93	79	23	7	203
PONDICHERY					
below 0.5	5	1	3	1	10
0.5-1.0	3	—	—	—	3
1.0-2.0	4	3	—	—	7
2.0-4.0	—	—	—	—	—
4.0-10.0	—	—	—	—	—
10.0 & above	—	—	—	—	—
all	12	4	3	1	20
ALL INDIA					
below 0.5	11393	5287	1861	1821	20362
0.5-1.0	24590	11769	2886	2125	41370
1.0-2.0	50698	27918	4675	4087	87378
2.0-4.0	66763	44520	4675	4982	120940
4.0-10.0	90155	65584	4489	7762	167990
10.0 & above	68191	47165	1873	8916	126145
all	311790	202243	20459	29693	564185

TABLE 3 : ESTIMATES OF AREA UNDER CROP FOR UNIRRIGATED HOUSEHOLD HOLDINGS BY CROP

GENERAL SAMPLE

estimates of area under crop (hectares 000)												
state/union territory	paddy	jowar	bajra	maize	ragi	wheat	barley	other cereals	gram	tur	other pulses	sugar cane
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Andhra Pradesh	106	1000	179	23	78	2	—	343	25	73	186	—
Assam	2452	2	—	6	—	29	—	4	3	6	35	15
Bihar	2686	7	27	449	85	532	65	143	134	29	470	15
Gujarat	291	560	625	171	116	157	3	229	32	94	174	—
Haryana	4	10	171	7	—	41	17	—	160	—	30	1
Himachal Pradesh	38	—	—	203	—	225	34	21	14	—	25	3
Jammu & Kashmir	22	—	12	128	—	92	4	3	1	—	15	—
Karnataka	225	1247	320	7	536	111	—	295	89	150	330	45
Kerala	95	4	—	—	1	—	—	1	—	—	6	1
Madhya Pradesh	2615	1065	110	394	13	1875	124	1110	854	236	927	1

estimates of area under crop (hectares 000)

cotton	jute	other fibres	rape & mustard	ground nut	seasaum	other all seeds	tobacco	spices & condiments	other crop commodity	all crops
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
194	6	7	—	316	30	92	94	42	46	2842
—	84	2	45	1	3	6	2	5	109	2809
—	107	1	45	1	2	41	2	3	87	4331
713	—	—	5	637	20	32	31	—	145	4035
—	—	—	15	—	—	—	—	1	70	527
—	—	—	5	1	3	—	—	1	38	611
—	—	—	5	—	3	—	—	—	5	290
349	—	9	—	362	17	85	15	64	200	4456
2	—	—	—	4	—	—	—	54	604	772
261	—	9	142	135	106	468	1	19	167	10632

TABLE 3 Contd : ESTIMATES OF AREA UNDER CROP FOR UNIRRIGATED HOUSEHOLD HOLDINGS BY CROP

GENERAL SAMPLE

state/union territory	estimates of area under crop (hectares 000)											
	paddy	jowar	bajra	maize	ragi	wheat	barley	other cereals	gram	tur	other pulses	sugarcane
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Maharashtra	612	2602	560	7	125	283	4	149	133	327	615	—
Manipur	117	—	—	5	—	—	—	—	—	—	1	—
Orissa	2043	—	1	66	121	—	—	130	11	1	216	1
Punjab	8	—	1	37	—	35	4	—	36	—	2	3
Rajasthan	43	304	3524	138	—	361	62	28	503	9	1508	1
Tamil Nadu	64	208	125	3	91	—	—	117	15	6	68	—
Tripura	132	—	—	—	—	—	—	—	—	—	—	—
Uttar Pradesh	511	197	142	194	63	780	220	147	357	207	159	122
West Bengal	1505	—	—	49	—	17	5	34	26	4	156	2
Delhi	—	1	3	—	—	5	—	—	1	—	—	—
Goa, Daman & Diu	17	—	—	—	—	—	—	—	—	—	1	—
Pondicherry	—	—	—	—	—	—	—	—	—	—	—	—
All India	12986	7207	5800	1887	1229	4545	542	2754	2394	1142	4924	210

estimates of area under crop (hectares 000)										
cotton	jute	other fibres	rape & mustard	ground-nut	seasaum	other oil seeds	tobacco	spices & condiments	other crop commodity	all crops
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
1019	—	23	—	374	51	314	3	51	24	7276
—	—	—	—	—	—	—	—	—	3	126
—	4	—	5	17	15	36	1	3	40	2711
1	—	—	1	2	1	—	—	—	30	161
7	—	1	84	38	204	61	—	47	1623	8546
39	—	—	—	150	19	4	—	20	101	1030
—	3	7	1	—	—	—	—	1	16	160
—	—	2	35	72	6	76	—	6	78	3374
—	107	9	16	—	—	8	3	4	65	2010
—	—	—	—	—	—	—	—	—	—	10
—	—	—	—	—	—	—	—	—	2	20
—	—	—	—	—	—	—	—	—	1	1
2585	311	70	404	2110	480	1223	152	321	3454	56730

सर्वेक्षण

राष्ट्रीय प्रतिदर्श

सर्वेक्षण

संगठन संबंधी

पत्रिका

खण्ड IX, संख्या 1 व 2

जुलाई-अक्तूबर 1985

सांख्यिकी विभाग

योजना मंत्रालय

भारत सरकार

सम्पादकीय सलाहकार बोर्ड

1. प्रो० बी० एस० मिन्हास
2. प्रो० वी० एम० दांडेकर
3. डा० के० एल० कृष्ण
4. प्रो० पी० विसारिया
5. प्रो० एस० डी० तेंदुलकर
6. श्री एम० जी० सरदाना
7. डा० एस० एन० रे
8. श्री एस० रे
9. श्री एस० रामानाथा प्रय्यर
10. श्री सुधीर भट्टाचार्य

मूल्य : देशीय 25.00 रु०
विदेशी 2.91 पाँड अथवा 9 डालर
वार्षिक शुल्क
मूल्य : देशीय 100.00 रु०
विदेशी 11.66 पाँड अथवा 36 डालर

विषय सूची

सर्वेक्षण

खंड 9 संख्या 1 व 2
(अंक संख्या 25)

जुलाई-अक्तूबर 1985

भाग 1 : लेख/टिप्पणियाँ

1. पारिवारिक जोत भूमि में सिंचाई के प्रयोग पर एक टिप्पणी: राष्ट्रीय प्रतिदर्श सर्वेक्षण 31वां दौर (जुलाई, 1976 से जून 1977) हि-1
2. असिंचित पारिवारिक जोत भूमि पर एक टिप्पणी : राष्ट्रीय प्रतिदर्श सर्वेक्षण 31 वां दौर (जुलाई 1976-जून, 1977) हि-3

भाग 2 : सर्वेक्षण परिणाम

1. पारिवारिक जोत भूमि में सिंचाई के प्रयोग पर सर्वेक्षण के कुछेक चुने हुए महत्वपूर्ण परिणाम-राष्ट्रीय प्रतिदर्श सर्वेक्षण 31 वां दौर (जुलाई 1976 से जून, 1977) हि-1
2. सिंचित पारिवारिक जोत भूमि सम्बन्धी परिणाम-राज्य तथा समस्त भारत : राष्ट्रीय प्रतिदर्श सर्वेक्षण 31 वां दौर (जुलाई 1976-जून, 1977) हि-3

*राज्यों/संघ शासित क्षेत्रों के लिए दिए गए परिणाम :-

1. गुजरात, 2. हरियाणा, 3. हिमाचल प्रदेश, 4. जम्मू तथा कश्मीर, 5. केरल, 6. पंजाब, 7. राजस्थान, 8. तमिल नाडु, 9. उत्तर प्रदेश, 10. दिल्ली, 11. गोवा, दमन और दिव, 12. पांडिचेरी

संशोधन विभाग

- 1. श्री. श्री. श्री. श्री.
- 2. श्री. श्री. श्री. श्री.
- 3. श्री. श्री. श्री. श्री.
- 4. श्री. श्री. श्री. श्री.
- 5. श्री. श्री. श्री. श्री.
- 6. श्री. श्री. श्री. श्री.

विशेष

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संशोधन विभाग

संशोधन विभाग

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संशोधन विभाग

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संशोधन विभाग

संशोधन विभाग

लेखों और टिप्पणियों में व्यक्त विचार संशोधकों के हैं तथा ये राष्ट्रीय प्रतिष्ठान सर्वेक्षण संगठन के विचारों को नहीं दर्शाते।

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संशोधन विभाग

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— संशोधन विभाग

पारिवारिक जोत भूमि में सिंचाई के प्रयोग पर एक टिप्पणी :

राष्ट्रीय प्रतिदर्श सर्वेक्षण 31 वां दौर (जुलाई 1976 से जून 1977)

1. प्रस्तावना

1.1 राष्ट्रीय प्रतिदर्श सर्वेक्षण संगठन द्वारा रा० प्र० सर्वे० के इकतीस वें दौर में जुलाई, 1976 से जून, 1977 तक ग्रामीण क्षेत्रों में सिंचाई के प्रयोग पर एक सर्वेक्षण किया गया था। इस सर्वेक्षण में, पारिवारिक जोत भूमि में सिंचाई के ब्योरे पारिवारिक जोत भूमि के प्रतिदर्श से पारिवारिक जांच द्वारा एकत्र किए गए थे। पारिवारिक जोत भूमि में बोई गई फसलों और उर्वरकों, खाद तथा कीटनाशकों के प्रयोग के संबंध में भी सूचना एकत्र की गई। सर्वेक्षण के लिए सन्दर्भ विधि कृषि वर्ष जुलाई 1975 से जून 1976 थी।

1.2 इस सर्वेक्षण में सिक्किम, नागालैंड और मेघालय के राज्यों तथा चंडीगढ़, अरुणाचल प्रदेश, अंडमान और निकोबार द्वीप समूह, मिजोरम, लक्षद्वीप तथा दादरा और नागर हवेली के संघ शासित क्षेत्रों को छोड़ कर सम्पूर्ण ग्रामीण भारत शामिल था।

1.3 सर्वेक्षण की भौगोलिक व्याप्ति में शामिल किए गए सभी राज्यों और संघ शासित क्षेत्रों ने संकल्पनाओं और परिभाषाओं का अनुसरण करके समान आकार का एक प्रतिदर्श तैयार करके कम से कम बराबरी के आधार पर सर्वेक्षण में भाग लिया।

1.4 सर्वेक्षण के प्रयोजन के लिए सम्पूर्ण देश में फैले गांवों का एक सामान्य प्रतिदर्श था। इसके अतिरिक्त, (i) 1947 के पश्चात् शुरू की गई प्रमुख सिंचाई परियोजनाओं और (ii) 1964 के पश्चात् शुरू की गई मध्यम सिंचाई परियोजनाओं के आधिपत्य क्षेत्रों वाले गांवों का एक अतिरिक्त विशेष प्रतिदर्श भी था। केन्द्रीय प्रतिदर्श में, उन गांवों की संख्या 8304 थी जिनके संबंध में सामान्य प्रतिदर्श सर्वेक्षण किए जाने की योजना थी, और उन गांवों की संख्या 2054 थी जिनके संबंध में प्रमुख तथा मध्यम परियोजनाओं के आधिपत्य क्षेत्रों का विशेष प्रतिदर्श सर्वेक्षण किए जाने की योजना थी।

1.5 सामान्य प्रतिदर्श के लिए अभिकल्प को दो चरणों में स्तरीकृत किया गया था जिसमें जिला (अथवा जिले का भाग) स्तर के रूप में, गांव प्रतिदर्श की प्रथम चरण की इकाई के रूप में तथा परिवार दूसरे चरण की इकाई के रूप में थे। सामान्य प्रतिदर्श के लिए 1971 की गणना गांवों की सूची, प्रतिदर्श ढांचे के रूप में प्रयोग की गई। प्रत्येक प्रतिदर्श गांव में, गांव के सभी परिवारों को एक विशिष्ट क्रम में व्यवस्थित करने के पश्चात् परिवारों की एक निर्धारित संख्या को आरम्भ में क्रमबद्ध वर्तुल रूप में चुना गया।

1.6 प्रत्येक प्रतिदर्श गांव में चुने गए प्रतिदर्श परिवारों को तीन परस्पर अनन्य श्रेणियों में बांटा गया था : श्रेणी 1 में वे परिवार शामिल थे जिन्होंने 1975-76 के दौरान कम से कम भूमि के कुछ भूखण्ड की सिंचाई द्वारा खेती की, श्रेणी 2 में वे परिवार शामिल थे जिन्होंने पूर्ण रूप से बिना सिंचाई के 1975-76 के दौरान खेती की, श्रेणी 3 में शेष परिवार शामिल थे जिन्होंने इस अवधि के दौरान कोई खेती नहीं की। ऐसे परिवारों को, जिन्होंने प्रायः सिंचाई का प्रयोग करते हुए खेती की, को श्रेणी I में शामिल किया गया है न कि श्रेणी 2 में, चाहे उन्होंने 1975-76 के दौरान पूर्ण रूप से बिना सिंचाई के खेती की। श्रेणी I के प्रतिदर्श परिवारों के लिए, अर्थात् वे परिवार जिन्होंने 1975-76 के दौरान सिंचाई द्वारा (अथवा प्रायः प्रयोग करते हुए) खेती की, सिंचाई बोई गई फसलों, उर्वरकों, खाद, कीटनाशक दवाइयों के प्रयोग आदि से संबंधित आंकड़े अनुसूची 22.1 में एकत्र किए गए थे। श्रेणी 2 के प्रतिदर्श परिवारों के लिए, अर्थात् वे प्रतिदर्श परिवार जिन्होंने 1975-76 के दौरान बिना सिंचाई के खेती की और सिंचित जोतों के ब्योरे अनुसूची 22.2 में एकत्र किए गए थे। श्रेणी 3 के परिवारों के लिए कोई अनुसूची तैयार नहीं की गई।

1.7 विभिन्न सारणियों में प्रस्तुत किए गए परिणाम बारह राज्यों/संघ शासित क्षेत्रों अर्थात् गुजरात, हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, केरल, पंजाब, राजस्थान, तमिलनाडु, उत्तर प्रदेश, दिल्ली, गोआ, दमन तथा दिव और पांडिचेरी (3) में केन्द्रीय

(1) मध्य प्रदेश के जिला सरगुजा की दो तहसीलों और जिला बस्तर की चार तहसीलों, महाराष्ट्र के जिला चन्द्रपुर की तीन तहसीलों और जिला अमरावती की एक तहसील और जम्मू तथा कश्मीर के लद्दाख जिले को भी शामिल नहीं किया गया।

(2) महत्वपूर्ण संकल्पनाओं और परिभाषाओं तथा प्रतिदर्श अभिकल्प और प्राक्कलन पद्धति के ब्योरे सर्वेक्षण, खंड 8; संख्या 2, अक्तूबर, 1984 में दिए गए हैं।

(3) अन्य 10 राज्यों से सम्बन्धित परिणाम सर्वेक्षण, खंड 8, संख्या 2 अक्तूबर, 1984 में पहले ही प्रकाशित किए जा चुके हैं।

प्रतिदर्श में गांवों के सामान्य प्रतिदर्श में अनुसूची 22.1 में एकत्रित आंकड़ों पर आधारित है। सिंचाई का प्रायः प्रयोग करने वाले परिवारों से संबंधित अधिकृत क्षेत्र, बुआई किया गया वास्तविक क्षेत्र, वास्तविक सिंचित क्षेत्र, कुल सिंचित क्षेत्र सिंचाई की विभिन्न प्रणालियों द्वारा सिंचित क्षेत्र, विभिन्न सिंचित और असिंचित फसलों के अन्तर्गत क्षेत्र, उर्वरकों, खाद, और कीटनाशक दवाइयों के प्रयोग, सिंचाई, पर खर्च आदि से संबंधित सूचना विभिन्न सारणियों में प्रस्तुत की गई है। बारह राज्यों/संघ शासित क्षेत्रों में ऐसे परिवारों के लिए अधिकृत कुल क्षेत्र, सिंचाई सुविधा सहित अधिकृत क्षेत्र, बुआई किए गए वास्तविक क्षेत्र, सिंचाई की प्रणाली द्वारा वास्तविक सिंचित क्षेत्र, कुल फसल क्षेत्र, सिंचाई की प्रणाली द्वारा सिंचित कुल क्षेत्र के अनुमान संक्षिप्त रूप में सारणी 'क' में दिए गए हैं। 4)

(4) कुछेक चुनी हुई मदों से संबंधित सूचना पहले, रा० प्र० सर्वे० प्रारूप रिपोर्ट संख्या 289 और सर्वेक्षण, खंड 3, संख्या 2, अक्टूबर, 1979 में प्रस्तुत की गई थी।

1979 में प्रस्तुत की गई थी।

सर्वेक्षण में प्रस्तुत की गई सूचना का उपयोग करने वाले लोगों को सूचित किया जाता है कि यह सूचना केवल सूचना के लिए है और इसे किसी भी प्रकार के अर्थोपार्जन के लिए नहीं प्रयोग किया जाना चाहिए।

सर्वेक्षण में प्रस्तुत की गई सूचना का उपयोग करने वाले लोगों को सूचित किया जाता है कि यह सूचना केवल सूचना के लिए है और इसे किसी भी प्रकार के अर्थोपार्जन के लिए नहीं प्रयोग किया जाना चाहिए।

सर्वेक्षण में प्रस्तुत की गई सूचना का उपयोग करने वाले लोगों को सूचित किया जाता है कि यह सूचना केवल सूचना के लिए है और इसे किसी भी प्रकार के अर्थोपार्जन के लिए नहीं प्रयोग किया जाना चाहिए।

सर्वेक्षण में प्रस्तुत की गई सूचना का उपयोग करने वाले लोगों को सूचित किया जाता है कि यह सूचना केवल सूचना के लिए है और इसे किसी भी प्रकार के अर्थोपार्जन के लिए नहीं प्रयोग किया जाना चाहिए।

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परिवारों की असिंचित जोत भूमि के संबंध में एक टिप्पणी :
रा० प्र० सर्वे० 31 वां दौर (जुलाई 1976 से जून 1977)

1. प्रस्तावना

1.1 राष्ट्रीय प्रतिदर्श सर्वेक्षण संगठन द्वारा जुलाई 1976 से जून 1977 के दौरान, इसके 31 वें दौर सर्वेक्षण संचालन के भाग के रूप में सिंचाई संबंधी सर्वेक्षण किया गया था। इस दौर में प्रायः सिंचाई का प्रयोग करने वाले खेतिहर परिवारों की जोत भूमि के संबंध में सिंचाई तथा अन्य ब्यौरों सम्बन्धी सूचना एकत्र करने के अतिरिक्त, सिंचाई का प्रयोग न करने वाले खेतिहर परिवारों की असिंचित जोत भूमि के संबंध में भी सूचना एकत्र की गई थी। सर्वेक्षण आंकड़ों के लिए सन्दर्भाविधि कृषि वर्ष जुलाई 1975—जून, 1976 थी।

1.2 इस सर्वेक्षण में सिक्किम, नागालैंड और मेघालय के राज्यों तथा चंडीगढ़, अरुणाचल प्रदेश, अंडमान और निकोबार द्वीप समूह, लक्षद्वीप तथा दादरा और नागर हवेली के संघ शासित क्षेत्रों को छोड़कर सम्पूर्ण ग्रामीण भारत शामिल था।

1.3 सर्वेक्षण के भौगोलिक क्षेत्र में शामिल किए गए सभी राज्यों और संघ शासित क्षेत्रों ने समान संकल्पनाओं और परिभाषाओं का अनुसरण करके कम से कम समान आकार (राज्य प्रतिदर्श) का एक प्रतिदर्श तैयार करके इस सर्वेक्षण में भाग लिया।

1.4 सर्वेक्षण के प्रयोजन के लिए सम्पूर्ण देश में फैले गांवों का एक सामान्य प्रतिदर्श था। इसके अतिरिक्त, (1) 1947 के पश्चात शुरू की गई प्रमुख सिंचाई परियोजनाओं और (2) 1964 के पश्चात शुरू की गई मध्यम सिंचाई परियोजनाओं के आधिपत्य क्षेत्रों के गांवों का एक अतिरिक्त विशेष प्रतिदर्श भी था। केन्द्रीय प्रतिदर्श (रा० प्र० सर्वे० सं० के क्षेत्रीय कर्मचारियों द्वारा तैयार किया गया प्रतिदर्श) में, उन गांवों की संख्या 8304 थी, साधारण प्रतिदर्श के लिए जिनका सर्वेक्षण करने की योजना थी और उन गांवों की संख्या 2054 थी, प्रमुख तथा मध्यम परियोजनाओं के आधिपत्य क्षेत्रों से विशेष प्रतिदर्श के लिए जिनका सर्वेक्षण करने की योजना थी।

1.5 साधारण प्रतिदर्श के लिए, अभिकल्प को दो चरणों में स्तरीकृत किया गया था जिसमें जिला (अथवा जिले का भाग) स्तर के रूप में, प्रतिदर्श की प्रथम चरण की इकाई के रूप में गांव तथा दूसरी चरण की इकाई के रूप में परिवार थे। साधारण प्रतिदर्श के लिए 1971 की गणना गांवों की सूची का प्रतिदर्श ढांचे के रूप में प्रयोग किया गया। प्रत्येक प्रतिदर्श गांव में, गांव के सभी परिवारों को एक विशिष्ट क्रम में व्यवस्थित करने के पश्चात परिवारों की एक निर्धारित संख्या को आरम्भ में क्रमबद्ध वर्तुल रूप में चुना गया।

1.6 प्रत्येक प्रतिदर्श गांव में चुने गए प्रतिदर्श परिवारों को तीन परस्पर अनन्य श्रेणियों में बांटा गया था : श्रेणी 1 में वे परिवार शामिल थे जिन्होंने 1975-76 के दौरान कम से कम भूमि के कुछ भूखण्ड की सिंचाई द्वारा खेती की, श्रेणी 2 में वे परिवार शामिल थे जिन्होंने पूर्ण रूप से बिना सिंचाई के 1975-76 के दौरान खेती की, श्रेणी 3 में शेष परिवार शामिल थे जिन्होंने इस अवधि के दौरान कोई खेती नहीं की। ऐसे परिवारों को, जिन्होंने प्रायः सिंचाई का प्रयोग करते हुए खेती की, श्रेणी 1 में शामिल किया गया है न कि श्रेणी 2 में, चाहे उन्होंने 1975-76 के दौरान पूर्ण रूप से बिना सिंचाई के खेती की। श्रेणी 1 के प्रतिदर्श परिवारों के लिए, अर्थात् वे परिवार जिन्होंने 1975-76 के दौरान सिंचाई द्वारा (अथवा प्रायः प्रयोग करते हुए) खेती की, सिंचाई, बोई गई फसलों, उर्वरकों, खाद, कीटनाशक दवाइयों के प्रयोग आदि से संबंधित आंकड़े अनुसूची 22.1 में एकत्र किए गए थे। श्रेणी 2 के प्रतिदर्श परिवारों के लिए, अर्थात् वे प्रतिदर्श परिवार जिन्होंने 1975-76 के दौरान बिना सिंचाई के खेती की, असिंचित जोत भूमि के ब्यौरे अनुसूची 22.2 में एकत्र किए गए थे। श्रेणी 3 के परिवारों के लिए, कोई अनुसूची तैयार नहीं की गई।

1.7 सारणी 0, 1, 2 और 3 में प्रस्तुत किए गए परिणाम विभिन्न राज्यों, संघ शासित क्षेत्रों तथा समस्त भारत में केन्द्रीय प्रतिदर्श में गांवों के सामान्य प्रतिदर्श में अनुसूची 22.2 में एकत्रित आंकड़ों के आधार पर है। खेतिहर परिवारों, जिन्होंने पूर्ण रूप से बिना सिंचाई के खेती की, की जोत भूमि से संबंधित अधिकृत क्षेत्र, बुआई किया गया वास्तविक क्षेत्र, एक से अधिक बार बोया गया क्षेत्र, विभिन्न फसलों के अन्तर्गत क्षेत्र, सिंचाई सम्भाव्यता आदि पर सूचना विभिन्न सारणियों में दी गई है। विभिन्न राज्यों, संघ शासित क्षेत्रों तथा समस्त भारत के लिए सूचना की इन कुछेक मदों पर अनुमान संक्षिप्त रूप में सारणी क में दिए गए हैं।

(1) मध्य प्रदेश के जिला सरगुला की दो तहसीलों और जिला बस्तर की चार तहसीलों, महाराष्ट्र के जिला चन्द्रपुर की तीन तहसीलों, जिला अमरावती की एक तहसील और जम्मू तथा कश्मीर के लद्दाख जिले को भी शामिल नहीं किया गया।

(2) सर्वेक्षण में अपनाई गई महत्वपूर्ण संकल्पनाओं और परिभाषाओं तथा प्रतिदर्श अभिकल्प और प्राक्कलन पद्धति पर एक विस्तृत टिप्पणी सर्वेक्षण, खंड 8, संख्या 2, अक्टूबर 1984; पहले ही दी जा चुकी है।