

Research Report No. 69

Statistical Series on Private
Tubewell Development in West Pakistan:

SIZE OF HOLDINGS OF PRIVATE TUBEWELL OWNERS

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P r e f a c e

Since 1964 the Agricultural Section of the Pakistan Institute of Development Economics, under the leadership of the late Mr. Ghulam Mohammad, has been conducting extensive investigations into the growth of private tubewells in West Pakistan. As part of this programme we have conducted several field surveys on various aspects of the development - probably the best known being the Annual Surveys of Private Tubewells, the fifth of which will be conducted this year. Most of these surveys have been carried out in conjunction with the West Pakistan Department of Agriculture.^{1/}

Partial results of these surveys have appeared in several articles written by Mr. Ghulam Mohammad^{2/}, but much of the data had not been fully processed and detailed results had not been published. Since West Pakistan's private tubewell development is of such general interest, both to the planners concerned with irrigation development in West Pakistan and, more widely, to many economists concerned with the problems of agricultural development, we have decided to reprocess all of the more important surveys and publish the results in a series of PIDE Research Reports entitled "Statistical Series on Private Tubewell Development in West Pakistan". The data published in this series along with the results of our other research on this subject are being further analysed and will be published in a PIDE Monograph which should appear in the Fall or Winter of 1968.

E.H.C.

^{1/} We must express our deep appreciation to the West Pakistan Department of Agriculture, especially the Lahore Region and its Director, Mr. Shafi Gill, for their generous cooperation in this work, without which most of it could not have been carried out.

^{2/} Particularly, "Private Tubewell Development and Cropping Patterns in West Pakistan", Pakistan Development Review, v.V, n.1, Spring 1965, pp 1-53; "Development of Irrigated Agriculture in East Pakistan: Some Basic Considerations", PDR, v.VI, n.3, Autumn 1966, pp.315-375; "Programme for the Development of Irrigation and Agriculture in West Pakistan: An analysis of the Public and Private Groundwater Development Programme and the IBRD Draft Report", PIDE Research Report No. 59, July 1967. This last publication to be superseded by a forthcoming article in the PDR by Ghulam Mohammad and Edwin H. Clark, "Groundwater Development in West Pakistan: An Analysis of the IBRD's Recommendations".

INTRODUCTION

In the winter of 1965/66 the PIDE in conjunction with the West Pakistan Department of Agriculture, Central Region, conducted a survey to determine the size of holdings of private tubewell owners. The survey was planned and directed by the PIDE and was carried out by the Department of Agriculture's Field Assistants.^{1/} Each Field Assistant was responsible for surveying all the farmers in his Union Council. The information collected included the number of tubewells in each village, the year of installation of each tubewell, the number of partners owning each tubewell, the land holding of each partner, and whether the tubewell was diesel or electric. The survey was carried out in the Districts of Multan, Sahiwal (Montgomery), Lahore, Gujranwala, Sheikhpura and Sialkot.

Summaries of most of the data collected are presented in the attached tables. They show the distribution of tubewells by the year of installation and by the size of holding of the tubewell owners for both single and joint tubewells.^{2/} For joint tubewells the distribution is made on the basis of both the tubewells owned and the number of farmers owning them. In computing the distribution of tubewells owned for joint tubewells, we divided each tubewell among its owners in proportion to their land holding. On the single tubewell summaries there is also a column headed "unclassified". In Multan and Sahiwal Districts these are mostly tubewells installed by cooperatives plus some for which the size of holding was not reported. In Lahore and Gujranwala they are mostly tubewells

^{1/} The Field Assistant is the representative of the Department of Agriculture at the Union Council (group of about 10 villages) level.

^{2/} Single tubewells are owned by one person. Joint tubewells are owned by two or more partners.

which were installed at the farmers' request by the government(WAPDA)

The definition of cells over the size of holding distribution is generally the same as is used in the Agricultural Census of 1961. However, for single tubewells we have included separate cells for owners of 25,50,100 and 150 acres because of the heavy concentration of owners who fall at the lower limit of these Agricultural Census cells. These concentrations result from the original distribution of land in the canal colonies which was generally done in blocks of 25 acres or multiples of 25 acres. The distribution we show for single tubewell owners between the lower limit and the rest of the Agricultural Census cells would also apply to joint tubewell owners.

The data collected in this survey were compared with the results of PIDE's Second Survey of Private Tubewells (1965) in order to estimate the degree of coverage. Multan, Sahiwal and Gujranwala appear to have been thoroughly covered. In Lahore and Sialkot Districts some areas could not be surveyed because of the September 1965 hostilities. The information for Sialkot District was so incomplete as to preclude its inclusion in these summaries.

In Kasur and Lahore Tehsils of Lahore District a total of about 30 Union Councils, containing about one third of the tubewells in each Tehsil, could not be surveyed. Chunian Tehsil appears to have been completely covered. Thus the district totals for Lahore are probably about 25% incomplete. The summary for Gujranwala District excludes Hafizabad Tehsil which was not surveyed because it falls in the SCARP I project area, but includes Ferozwala Tehsil of Sheikhpura District which falls outside SCARP I. This grouping is the same as has been used in reporting the results of the annual Surveys of Private Tubewells.

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15 June, 1968.

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Table I

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclas- sified	Total
Before 1945	-	-	-	-	-	-	-	1	-	-	-	-	1
1945	-	-	-	-	-	1	1	-	-	-	-	-	2
1946	-	-	-	-	-	1	-	-	-	-	-	-	1
1947	-	-	-	-	-	-	2	-	-	-	-	-	2
1948	-	-	-	-	-	-	-	3	-	-	-	1	4
1949	-	-	-	-	1	-	2	1	1	-	-	-	5
1950	-	-	-	1	1	1	5	4	2	6	2	-	22
1951	-	-	-	-	1	1	3	2	-	1	1	-	9
1952	-	-	-	3	-	1	5	7	3	5	5	-	29
1953	-	-	1	-	2	-	2	3	4	3	6	1	22
1954	-	-	2	3	1	5	7	5	3	4	7	1	38
1955	1	-	-	3	8	5	15	11	6	7	12	1	69
1956	-	-	1	1	8	10	15	8	5	7	7	1	63
1957	-	1	3	3	9	13	18	13	7	5	15	-	87
1958	1	5	13	5	15	24	28	18	16	16	12	4	157
1959	-	-	7	12	17	20	34	23	10	16	21	3	163
1960	10	2	30	36	42	39	87	59	44	65	50	11	475
1961	4	11	23	56	69	72	109	52	40	60	51	10	557
1962	8	11	56	80	103	111	157	87	55	53	77	16	814
1963	15	15	50	107	115	117	172	81	55	75	69	25	896
1964	15	17	75	114	124	117	183	80	75	47	77	12	936
1965	18	14	76	91	97	82	114	44	34	31	60	19	680
1966	-	-	1	2	3	1	2	2	2	-	-	1	14
Total:	72	76	338	517	616	621	961	504	362	401	472	106	5046

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table II

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT SAHIWAL

. Land Holdings of Farmers Installing Tubewells (Acres)

<u>Year of Installation</u>	<u>0-7.4</u>	<u>7.5-12</u>	<u>12.5-24</u>	<u>25</u>	<u>26-49</u>	<u>50</u>	<u>51-99</u>	<u>100</u>	<u>101-149</u>	<u>150</u>	<u>Over 150</u>	<u>Unclas- sified</u>	<u>Total</u>
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	1	-	-	-	1	-	2
1946	-	-	-	-	-	-	2	-	-	1	-	-	3
1947	-	-	1	-	-	-	-	-	-	-	-	-	1
1948	1	-	-	-	1	-	-	1	-	-	-	-	3
1949	1	-	-	-	2	-	-	-	-	-	1	-	4
1950	-	-	-	2	2	1	3	-	3	1	1	-	13
1951	-	-	1	-	-	2	2	2	-	-	1	-	8
1952	-	-	-	1	1	-	2	6	3	1	1	-	15
1953	-	-	2	3	1	1	2	-	2	-	2	-	13
1954	1	-	2	1	4	2	1	2	-	-	3	-	16
1955	-	-	3	-	5	2	5	5	2	4	7	10	43
1956	1	-	4	2	4	1	6	2	-	2	5	-	27
1957	-	1	4	5	5	6	13	2	6	2	10	-	54
1958	1	3	3	4	17	4	22	4	7	8	6	-	79
1959	1	10	9	10	21	17	25	5	6	6	13	4	127
1960	8	9	26	56	42	36	59	28	18	15	26	1	324
1961	8	25	46	62	84	51	111	44	26	20	39	1	517
1962	10	30	83	85	115	89	151	48	47	27	62	10	757
1963	10	26	91	112	130	96	159	63	46	17	57	5	812
1964	9	25	92	116	156	102	160	55	36	16	24	6	797
1965	18	25	90	76	111	71	120	37	28	8	33	4	621
1966	-	1	-	3	2	1	2	-	-	-	2	-	11
Total:	69	155	457	538	703	482	846	304	230	128	294	41	4247

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table III

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT LAHORE

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclas- sified	Total
Before 1945	-	-	-	-	-	-	1	-	-	-	-	-	1
1945	-	-	-	-	-	1	-	-	-	-	-	-	1
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	1	-	-	-	-	-	1	-	2
1949	-	-	2	1	-	1	-	-	-	-	-	-	4
1950	-	-	1	2	2	-	-	3	-	1	1	-	10
1951	-	-	1	-	-	-	-	-	3	-	1	-	5
1952	-	-	-	1	1	1	3	2	-	-	1	-	9
1953	-	-	-	-	1	1	-	2	1	-	-	-	5
1954	-	-	-	-	4	1	-	3	2	-	1	-	11
1955	1	-	2	1	1	2	6	1	-	-	2	-	16
1956	1	-	-	1	5	1	3	1	1	1	1	-	15
1957	-	1	-	-	6	-	7	1	-	-	3	-	18
1958	1	1	5	3	8	6	9	2	-	1	2	1	39
1959	-	3	2	2	8	3	12	-	2	-	-	-	32
1960	5	11	15	6	20	10	8	9	6	1	7	1	99
1961	2	8	18	5	23	11	12	5	4	2	6	1	97
1962	4	19	25	12	33	10	33	9	5	6	5	-	161
1963	8	15	32	21	42	30	39	17	13	5	12	-	234
1964	4	21	34	26	51	20	35	12	8	7	12	-	230
1965	11	13	44	24	50	30	29	22	7	4	5	3	242
1966	-	-	2	1	1	-	1	-	-	-	-	5	10
Total:	37	92	183	106	257	128	198	89	52	28	60	11	1241

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture,
Lahore Region, 1965/66.

Table IV

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT GUJRANWALA

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	2	-	2	-	-	-	-	-	4
1945	-	1	1	-	-	-	1	-	-	-	-	-	3
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	1	-	-	-	-	-	1
1950	-	1	-	-	4	-	-	-	-	-	-	-	5
1951	-	-	-	-	-	-	1	-	-	1	-	-	2
1952	-	1	2	-	5	-	1	-	-	1	-	2	12
1953	-	-	-	-	-	-	2	-	-	-	-	-	2
1954	-	-	-	-	3	-	5	-	-	-	-	-	8
1955	1	1	4	-	12	2	4	1	1	1	-	-	27
1956	-	-	4	4	10	2	5	1	1	-	-	-	27
1957	-	1	1	1	7	-	6	3	1	-	-	2	22
1958	4	1	15	6	29	10	24	6	1	-	-	9	105
1959	3	4	12	5	32	8	23	10	3	1	3	2	106
1960	11	12	37	21	94	30	59	8	-	4	3	8	287
1961	13	6	34	21	84	37	61	15	5	-	4	18	298
1962	15	15	73	38	165	59	126	27	7	8	18	7	558
1963	20	38	101	53	217	80	152	24	15	10	12	2	724
1964	24	38	111	63	256	94	136	27	8	2	9	-	768
1965	20	45	110	40	212	43	105	20	9	2	10	1	617
1966	-	-	-	1	-	-	1	-	1	-	-	-	3
Total:	111	164	505	253	1132	365	715	142	52	30	59	51	3579

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table Ia

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN TEHSIL MULTAN

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	1	-	-	-	-	-	1
1948	-	-	-	-	-	-	-	1	-	-	-	1	2
1949	-	-	-	-	1	-	2	1	1	-	-	-	5
1950	-	-	-	-	-	1	1	-	-	-	1	-	3
1951	-	-	-	-	-	1	2	-	-	-	-	-	3
1952	-	-	-	1	-	-	1	3	-	-	1	-	6
1953	-	-	-	-	2	-	+	1	+	1	3	-	7
1954	-	-	1	-	-	1	2	1	1	2	3	-	11
1955	-	-	-	-	4	2	2	5	1	2	2	-	18
1956	-	-	1	-	3	1	3	2	2	1	3	-	16
1957	-	1	-	1	2	4	6	3	1	1	5	-	24
1958	1	-	5	-	2	3	9	5	1	5	4	-	35
1959	-	-	1	1	3	6	6	6	-	3	3	-	29
1960	-	-	6	3	14	8	22	8	7	2	8	1	76
1961	-	2	4	5	15	18	20	14	7	4	4	1	94
1962	1	2	10	7	21	24	21	13	8	2	4	3	116
1963	3	2	6	7	24	20	24	8	3	6	10	1	114
1964	1	3	18	9	31	21	21	8	11	3	11	2	139
1965	2	2	8	10	16	11	20	7	1	7	6	2	92
1966	-	-	-	1	2	-	-	-	1	-	-	-	4
Total:	8	12	60	45	140	121	163	86	45	39	68	11	798

Source: Size of Holdings Survey by PIDF and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table Ib

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

Year of Installation	DISTRICT MULTAN										TEHSIL KHANEVAL		Total
	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclas- sified	
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	1	-	-	1	-	-	2
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	2	-	-	-	-	1	1	1	-	5
1953	-	-	-	-	-	-	-	1	1	-	1	-	3
1954	-	-	-	1	-	-	-	1	-	1	-	-	3
1955	-	-	-	2	1	-	1	1	-	-	-	-	5
1956	-	-	-	-	3	1	2	-	-	-	-	-	6
1957	-	-	-	-	2	2	2	2	1	2	-	-	11
1958	-	2	-	1	3	3	1	2	-	6	-	1	19
1959	-	-	1	1	1	1	2	-	2	2	2	2	14
1960	5	-	8	16	3	5	9	4	7	45	9	-	111
1961	-	3	3	18	11	17	19	3	3	32	7	1	117
1962	3	1	10	26	18	23	29	10	6	29	17	1	173
1963	3	4	16	42	26	36	35	7	5	14	8	2	198
1964	3	2	13	30	15	21	25	6	5	5	13	1	139
1965	4	3	14	25	12	27	14	4	4	7	13	9	136
1966	-	-	-	-	1	-	-	1	-	1	1	-	2
Total:	18	15	65	164	58	136	140	42	35	145	71	17	944

Source: Size of Holdings Survey by PIDP and West Pakistan Department of Agriculture,
Lahore Region, 1965/66.

Table 1c

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

Year of Installation	DISTRICT MULTAN										TEHSIL KARIRWALA		Total
	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	
Before 1945	-	-	-	-	-	-	-	1	-	-	-	-	1
1945	-	-	-	-	-	1	-	-	-	-	-	-	1
1946	-	-	-	-	-	1	-	-	-	-	-	-	1
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	1	-	-	1
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	1	-	-	-	-	-	1
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	1	1	1	-	1	-	-	1	-	5
1955	-	-	-	-	-	-	1	-	-	1	2	-	4
1956	-	-	-	-	-	-	2	1	-	-	-	-	3
1957	-	-	1	-	-	2	2	-	-	-	-	-	5
1958	-	-	1	-	-	-	2	1	2	-	1	-	7
1959	-	-	-	-	1	-	4	-	2	-	1	-	8
1960	-	1	2	1	3	2	3	3	2	1	3	2	23
1961	1	-	-	2	7	5	4	7	3	2	-	-	31
1962	1	1	1	5	5	12	14	12	5	-	-	3	59
1963	-	2	7	7	13	9	30	17	8	2	5	5	105
1964	-	3	15	8	18	21	34	13	15	7	3	-	137
1965	2	3	8	13	28	10	24	14	9	2	11	-	124
1966	-	-	1	-	-	-	1	-	1	-	-	-	3
Total:	4	10	36	37	76	64	122	70	47	16	27	10	519

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table 1d

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN TEHSIL VEHARI

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	1	-	-	1	-	2
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	2	2	-	1	-	5
1953	-	-	1	-	-	-	2	-	-	-	1	-	4
1954	-	-	-	-	-	1	2	2	-	1	2	-	8
1955	-	-	-	-	1	-	3	2	3	2	2	-	13
1956	-	-	-	1	-	2	1	-	-	-	2	-	6
1957	-	-	2	-	2	1	1	1	-	-	-	-	7
1958	-	1	4	4	5	6	3	3	2	1	-	-	29
1959	-	-	4	4	6	2	4	-	2	2	7	1	32
1960	3	1	8	3	3	11	22	13	6	5	9	3	87
1961	3	5	10	19	14	16	25	6	8	9	10	4	129
1962	3	3	22	17	10	19	27	9	9	4	14	4	141
1963	4	3	7	24	15	19	14	17	8	9	12	5	137
1964	8	5	10	23	14	13	21	14	10	10	11	6	145
1965	5	3	23	24	16	10	18	8	5	3	12	5	132
1966	-	-	-	1	-	-	-	-	-	-	-	-	1
Total:	26	21	91	120	86	100	143	78	55	46	84	28	878

Source: Size of Holdings Survey by FIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table 1e

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN TEHSIL MAILSI

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	1	-	-	-	-	-	1
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	1	-	-	-	1	-	-	-	2
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	1	1	2
1954	-	-	1	-	-	-	1	-	1	-	1	1	5
1955	1	-	-	1	1	-	4	2	1	-	5	1	16
1956	-	-	-	-	2	2	4	2	2	1	-	1	14
1957	-	-	-	-	-	-	5	2	2	1	2	1	13
1958	-	1	2	-	4	3	10	3	8	2	5	3	41
1959	-	-	-	1	2	7	11	6	3	4	7	-	41
1960	-	-	3	8	12	7	17	6	14	4	11	1	83
1961	-	1	4	4	14	10	21	8	11	3	7	-	83
1962	-	2	7	11	25	23	26	21	12	2	13	2	144
1963	2	2	7	7	19	11	28	6	10	5	9	1	107
1964	-	1	8	14	25	17	29	10	10	1	19	-	134
1965	1	-	12	11	12	9	19	3	7	2	5	-	81
1966	-	-	-	-	-	-	1	-	-	-	-	-	1
Total:	4	7	44	57	117	89	177	69	82	25	85	12	768

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table 1f

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN TEHSIL LODHRAN

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	1	-	-	-	-	-	1
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	1	-	-	-	-	1
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	1	-	-	1	1	1	2	-	-	6
1951	-	-	-	-	-	-	-	1	-	-	-	-	1
1952	-	-	-	-	-	-	2	2	-	2	-	-	6
1953	-	-	-	-	-	-	-	1	2	2	-	-	5
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	1	1	1	-	1	-	4
1956	-	-	-	-	-	1	2	-	-	2	2	-	7
1957	-	-	-	1	2	1	2	4	3	-	8	-	21
1958	-	-	-	-	1	6	2	2	2	1	1	-	15
1959	-	-	-	2	3	2	4	8	1	4	1	-	25
1960	2	-	3	4	5	3	13	21	8	6	6	4	75
1961	-	-	2	6	5	3	14	6	8	9	16	4	73
1962	-	1	6	9	17	6	31	15	13	11	22	3	134
1963	2	2	6	17	13	16	29	18	18	32	20	11	184
1964	2	3	8	24	15	12	37	17	17	16	15	3	169
1965	4	1	9	7	11	8	13	3	8	7	9	3	83
1966	-	-	-	-	-	1	-	1	-	-	-	-	2
Total:	10	7	34	71	72	59	152	102	82	94	101	28	812

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table 1g

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN TEHSIL SHUJARABAD

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	1	-	-	-	-	1
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	2	2	-	2	-	-	6
1951	-	-	-	-	1	-	1	1	-	1	1	-	5
1952	-	-	-	-	-	1	1	-	-	2	2	-	6
1953	-	-	-	-	-	-	-	-	1	-	-	-	1
1954	-	-	-	1	-	2	2	-	1	-	-	-	6
1955	-	-	-	-	1	3	3	-	-	2	-	-	9
1956	-	-	-	-	-	3	1	3	1	3	-	-	11
1957	-	-	-	1	1	3	-	1	-	1	-	-	7
1958	-	1	1	-	-	3	1	2	1	1	1	-	11
1959	-	-	1	3	1	2	3	3	-	1	-	-	14
1960	-	-	-	1	2	3	1	4	-	2	4	-	17
1961	-	-	-	2	3	3	6	8	-	1	7	-	30
1962	-	1	-	5	7	4	9	7	2	5	7	-	47
1963	1	-	1	3	5	6	12	8	3	7	5	-	51
1964	1	-	3	6	6	12	16	12	7	5	5	-	73
1965	-	2	2	1	2	7	6	5	-	3	4	-	32
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:	2	4	8	23	29	52	64	57	16	36	36	-	327

Source: Size of Holding Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Agricultural Section

Table IIa

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT SAHJWAL TEHSIL SAHJWAL

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	1	1	-	-	-	1	-	-	-	3
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	1	-	-	1	1	-	-	-	3
1953	-	-	-	-	-	-	1	-	-	-	1	-	2
1954	-	-	1	-	2	-	1	-	-	-	1	-	5
1955	-	-	1	-	1	-	-	-	-	-	3	-	5
1956	1	-	-	-	-	-	-	-	-	1	1	-	3
1957	-	-	1	-	-	1	1	-	1	-	1	-	5
1958	-	1	1	-	5	3	3	1	3	4	2	-	23
1959	-	4	3	3	8	6	5	1	3	2	6	-	41
1960	1	3	8	18	12	12	13	10	4	6	7	-	94
1961	2	9	14	26	29	9	31	6	6	5	7	-	144
1962	2	8	32	32	32	30	32	10	14	7	17	1	217
1963	4	8	28	42	30	31	34	11	8	4	16	1	217
1964	-	7	24	39	35	19	18	6	4	4	8	3	167
1965	5	3	37	22	20	24	29	5	5	-	10	-	160
1966	-	-	-	1	-	-	-	-	-	-	-	-	1
Total:	15	43	150	184	176	135	168	51	50	33	80	5	1090

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table IIb

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT SAHIVAL TEHSIL PAKPATTAN

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	1	-	-	-	-	-	1
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	1	-	-	-	1	-	-	1	-	-	-	-	3
1949	1	-	-	-	1	-	-	-	-	-	-	-	2
1950	-	-	-	-	-	1	-	-	-	-	-	-	1
1951	-	-	1	-	-	-	1	-	-	-	-	-	2
1952	-	-	-	-	-	-	-	2	1	-	-	-	3
1953	-	-	2	3	1	-	-	-	-	-	1	-	7
1954	1	-	1	-	2	1	-	1	-	-	1	-	7
1955	-	-	-	-	1	1	3	3	-	2	1	-	11
1956	-	-	1	1	3	1	5	2	-	1	3	-	17
1957	-	-	1	3	2	2	5	1	1	-	1	-	16
1958	1	1	2	1	8	1	9	-	-	-	2	-	25
1959	1	1	4	2	10	2	7	1	1	3	2	-	34
1960	4	1	7	12	14	9	23	9	11	4	6	1	101
1961	6	7	11	18	36	25	43	21	9	5	8	-	189
1962	5	7	27	28	55	29	66	22	15	9	20	-	283
1963	6	7	42	52	63	38	57	18	12	6	16	2	319
1964	4	8	53	59	72	44	63	20	14	2	7	1	347
1965	9	17	37	40	54	17	35	11	14	3	6	3	346
1966	-	1	-	2	1	1	2	-	-	-	-	-	7
Total:	39	50	189	221	324	172	320	112	78	35	74	7	1621

Source: Size of Holdings Survey by FIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table IIb

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT SAHIWAL TEHSIL OKARA

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	1	1	-	-	2
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	1	1	-	-	-	-	2
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	1	-	1	-	-	-	-	-	-	2
1955	-	-	2	-	-	1	1	-	1	1	1	-	7
1956	-	-	3	1	1	-	-	-	-	-	1	-	6
1957	-	-	1	1	1	2	-	-	-	-	-	-	5
1958	-	1	-	3	2	-	3	-	1	1	-	-	11
1959	-	5	1	5	2	7	5	2	1	1	2	4	36
1960	3	5	9	22	7	9	5	1	-	-	2	-	63
1961	-	7	18	17	8	8	4	3	1	3	2	-	71
1962	2	11	19	20	14	17	10	3	2	-	2	6	106
1963	-	7	10	12	10	10	6	3	-	-	6	1	65
1964	3	7	8	8	17	8	13	4	-	-	-	-	68
1965	3	2	6	13	8	15	11	5	1	-	2	1	67
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:	11	45	77	103	70	79	59	22	8	7	18	12	511

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table IIId

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT SAHIWAL TEHSIL DIPALPUR

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	1	-	-	-	1	-	2
1946	-	-	-	-	-	-	1	-	-	1	-	-	2
1947	-	-	1	-	-	-	-	-	-	-	-	-	1
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	1	-	-	-	-	-	1	-	2
1950	-	-	-	1	1	-	3	-	1	-	1	-	7
1951	-	-	-	-	-	2	1	2	-	-	1	-	6
1952	-	-	-	1	-	-	1	2	1	1	1	-	7
1953	-	-	-	-	-	1	1	-	2	-	-	-	4
1954	-	-	-	-	-	-	-	1	-	-	1	-	2
1955	-	-	-	-	3	-	1	2	1	1	2	10	20
1956	-	-	-	-	-	-	1	-	-	-	-	-	1
1957	-	1	1	1	2	1	7	1	4	2	8	-	28
1958	-	-	-	-	2	-	7	3	3	3	2	-	20
1959	-	-	1	-	1	1	8	1	1	-	3	-	16
1960	-	-	2	4	9	6	18	8	3	5	11	-	66
1961	-	2	3	1	11	9	33	14	10	7	22	1	113
1962	1	4	5	5	14	13	43	13	16	11	23	3	151
1963	-	4	11	6	27	17	62	31	26	7	19	1	211
1964	2	3	7	10	32	31	66	25	18	10	9	2	215
1965	1	3	10	1	29	15	45	16	8	5	15	-	148
1966	-	-	-	-	1	-	-	-	-	-	2	-	3
Total:	4	17	41	30	133	96	299	119	94	53	122	17	1025

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table IIIa

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT LAHORE TEHSIL LAHORE

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	1	-	-	-	-	-	1
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	1	-	1
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	1	-	-	2	-	1	1	-	5
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	1	-	-	-	-	-	1
1953	-	-	-	-	-	-	-	-	1	-	-	-	1
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	1	-	1	-	3	-	-	-	1	-	6
1956	1	-	-	-	-	-	1	-	1	-	1	-	4
1957	-	1	-	-	2	-	1	-	-	-	1	-	5
1958	1	-	1	-	1	3	1	-	-	-	-	-	7
1959	-	-	-	-	3	1	2	-	1	-	-	-	7
1960	2	5	3	2	4	3	3	4	1	-	2	-	29
1961	2	4	6	3	5	1	-	1	4	-	1	-	27
1962	2	10	7	2	8	3	11	1	-	4	1	-	49
1963	6	8	9	3	10	5	9	2	2	1	6	-	61
1964	4	11	11	6	15	-	14	2	2	1	3	-	69
1965	7	8	22	5	11	8	10	1	1	-	1	-	74
1966	-	-	1	1	-	-	-	-	-	-	-	-	2
Total:	25	47	61	22	61	24	57	13	13	7	19	-	349

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table IIIb

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT LAHORE TEHSIL KASUR

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	1	-	-	-	-	-	-	-	-	1
1950	-	-	1	-	-	-	-	-	-	-	-	-	1
1951	-	-	1	-	-	-	-	-	-	-	1	-	2
1952	-	-	-	1	-	-	-	-	-	-	-	-	1
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	1	1	-	1	1	-	-	-	4
1955	1	-	1	-	-	-	1	-	-	-	-	-	3
1956	-	-	-	1	3	1	-	-	-	1	-	-	6
1957	-	-	-	-	3	-	2	1	-	-	-	-	6
1958	-	1	3	2	5	2	7	-	-	1	2	1	24
1959	-	2	2	1	5	1	4	-	-	-	-	-	15
1960	1	5	10	4	9	2	3	1	2	1	2	1	41
1961	-	4	8	1	8	1	1	2	-	1	1	1	28
1962	2	6	14	6	9	1	3	1	-	1	2	-	45
1963	1	6	17	7	12	5	10	2	2	-	-	-	62
1964	-	7	18	6	14	4	6	2	-	1	-	-	58
1965	1	3	12	7	18	3	3	-	-	1	-	3	51
1966	-	-	1	-	1	-	1	-	-	-	-	4	7
Total:	6	34	88	37	88	21	41	10	5	7	8	10	355

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table IIIc

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT LAHORE TEHSIL CHUNIAN

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	1	-	-	-	-	-	-	1
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	1	-	-	-	-	-	-	-	-
1949	-	-	2	-	-	1	-	-	-	-	-	-	1
1950	-	-	-	2	1	-	-	1	-	-	-	-	3
1951	-	-	-	-	-	-	-	-	3	-	-	-	4
1952	-	-	-	-	1	1	2	2	-	-	1	-	3
1953	-	-	-	-	1	1	-	2	-	-	-	-	7
1954	-	-	-	-	3	-	-	2	1	-	1	-	4
1955	-	-	-	1	-	2	2	1	-	-	1	-	7
1956	-	-	-	-	2	-	2	1	-	-	1	-	7
1957	-	-	-	-	1	-	4	-	-	-	2	-	5
1958	-	-	1	1	2	1	1	2	-	-	-	-	7
1959	-	1	-	1	-	1	6	-	1	-	-	-	8
1960	2	1	2	-	7	5	2	4	3	-	3	-	10
1961	-	-	4	1	10	9	11	2	-	-	4	-	29
1962	-	3	4	4	16	6	19	7	5	1	4	-	42
1963	1	1	6	11	20	20	20	13	9	4	6	-	67
1964	-	3	5	14	22	16	15	8	6	5	9	-	111
1965	3	2	10	12	21	19	16	21	6	3	4	-	103
1966	-	-	-	-	-	-	-	-	-	-	-	1	118
Total:	6	11	34	47	108	83	100	66	34	14	33	1	537

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table IVa

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT GUJRANWALA TEHSIL GUNRANWALA

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	2	-	1	-	-	-	-	-	3
1945	-	-	1	-	-	-	-	-	-	-	-	-	1
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	1	-	-	-	-	-	1
1950	-	-	-	-	3	-	-	-	-	-	-	-	3
1951	-	-	-	-	-	-	1	-	-	1	-	-	2
1952	-	-	-	-	2	-	1	-	-	1	-	2	6
1953	-	-	-	-	-	-	1	-	-	-	-	-	1
1954	-	-	-	-	1	-	2	-	-	-	-	-	3
1955	-	-	1	-	4	1	3	1	-	-	-	-	10
1956	-	-	4	4	8	2	3	1	1	-	-	-	23
1957	-	-	1	-	2	-	3	2	1	-	-	2	11
1958	4	-	11	5	26	6	15	5	1	-	-	9	82
1959	1	2	6	4	21	7	14	6	1	-	1	2	65
1960	8	3	16	12	64	17	41	5	-	3	-	8	177
1961	8	3	16	13	59	25	41	11	3	-	1	18	198
1962	9	2	33	23	107	41	77	18	3	5	-	7	325
1963	10	13	52	30	138	50	98	13	7	9	6	2	428
1964	12	20	64	41	147	43	85	16	5	1	3	-	437
1965	8	20	48	14	109	20	59	9	8	-	4	1	300
1966	-	-	-	-	-	-	-	-	1	-	-	-	1
Total:	60	63	253	146	693	212	446	87	31	20	15	51	2077

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table IVb

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT GUJRANWALA TEHSIL WAZIRABAD

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclas- sified	Total
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	1	-	-	1	-	-	-	-	-	-	-	2
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	3	-	-	-	-	-	-	-	3
1953	-	-	-	-	-	-	1	-	-	-	-	-	1
1954	-	-	-	-	2	-	3	-	-	-	-	-	5
1955	1	-	2	-	8	1	1	-	-	1	-	-	14
1956	-	-	-	-	2	-	2	-	-	-	-	-	4
1957	-	-	-	1	5	-	2	1	-	-	-	-	9
1958	-	-	3	1	3	3	8	1	-	-	-	-	19
1959	2	2	5	1	10	-	7	-	1	-	-	-	28
1960	2	4	13	4	26	10	11	1	-	-	-	-	71
1961	5	-	10	5	16	2	8	1	-	-	-	-	47
1962	4	5	17	1	35	7	24	5	2	-	1	-	101
1963	6	10	26	12	51	9	29	4	3	-	1	-	150
1964	7	10	28	12	78	26	31	4	1	-	1	-	198
1965	8	14	37	11	67	6	19	3	1	1	-	-	167
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:	35	46	141	48	307	64	146	20	8	2	2	-	819

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table IVc

DISTRIBUTION OF SINGLE TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT GUJRANWALA TEHSIL FEROWALA

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	0-7.4	7.5-12	12.5-24	25	26-49	50	51-99	100	101-149	150	Over 150	Unclassified	Total
Before 1945	-	-	-	-	-	-	1	-	-	-	-	-	1
1945	-	1	-	-	-	-	1	-	-	-	-	-	2
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	1	2	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	3
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	1	1	-	-	-	-	-	1	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	3
1957	-	1	-	-	-	-	1	-	-	-	-	-	-
1958	-	1	1	-	-	1	1	-	-	-	-	-	2
1959	-	-	1	-	1	1	2	4	1	1	-	-	4
1960	1	5	8	5	4	3	7	2	-	1	2	-	13
1961	-	3	8	3	9	10	12	3	2	-	3	-	39
1962	2	8	23	14	23	11	25	4	2	3	17	-	53
1963	4	15	23	11	28	21	25	7	5	1	6	-	132
1964	5	8	19	10	31	25	20	7	2	1	5	-	146
1965	4	11	25	15	36	17	27	8	-	1	6	-	133
1966	-	-	-	1	-	-	1	-	-	-	-	-	150
Total:	16	55	111	59	132	89	123	35	13	8	42	-	683

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table V

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION
DISTRICT MULTAN

. . . . Land Holdings of Farmers Installing Tubewells (acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	1	2	-	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	1.00	2
1949	1	3	-	-	-	-	-	-	-	1.00	3	-	-	-	-	-	-	-	1.00	3
1950	3	27	0.58	2	1.42	21	-	-	-	-	-	1.00	4	-	-	-	-	3.00	27	
1951	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00	2	1.00	2	
1952	8	22	-	-	-	-	1.00	4	2.68	8	2.61	7	-	-	1.71	3	-	8.00	22	
1953	7	35	-	-	-	-	1.00	20	0.08	1	2.42	7	1.39	3	2.11	4	-	7.00	35	
1954	9	44	1.00	20	0.36	3	-	-	-	-	4.64	15	1.00	2	-	-	2.00	9.00	44	
1955	6	14	-	-	-	-	-	-	3.30	6	0.70	2	1.00	2	1.00	2	-	6.00	14	
1956	22	81	1.00	20	1.26	7	0.59	4	6.02	16	6.13	17	2.40	8	3.60	7	1.00	22.00	81	
1957	17	41	-	-	0.30	1	1.39	4	1.82	6	4.69	10	6.89	17	1.91	3	-	17.00	41	
1958	36	138	0.09	1	1.00	4	2.10	23	5.34	41	16.37	45	9.38	20	0.29	1	1.43	36.00	138	
1959	57	163	1.12	4	1.95	10	4.43	23	11.90	34	18.78	54	16.03	33	2.19	4	0.60	57.00	163	
1960	165	578	3.13	25	1.67	20	17.88	82	38.84	160	59.12	184	37.25	89	6.11	14	1.00	165.00	578	
1961	231	829	3.75	38	10.86	77	16.48	90	59.52	239	83.21	250	43.04	108	6.71	14	7.43	231.00	829	
1962	325	1145	4.10	30	12.17	59	39.98	208	80.48	330	112.20	345	63.83	151	9.81	18	2.43	325.00	1145	
1963	424	1531	7.62	58	21.24	120	49.16	262	107.80	449	164.39	473	61.86	146	9.93	19	2.00	424.00	1531	
1964	474	1617	9.17	71	21.67	130	53.90	240	114.61	458	176.44	502	77.92	175	13.11	27	7.18	474.00	1617	
1965	367	1326	8.60	66	24.15	121	62.99	281	103.96	380	117.43	365	43.39	101	3.48	6	3.00	267.00	1326	
1966	12	32	-	-	1.26	4	0.53	2	2.86	7	5.52	15	1.83	4	-	-	-	12.00	32	
Total:	2166	7630	40.16	335	99.31	577	251.43	1243	539.21	2137	776.65	2296	368.21	863	61.96	122	29.07	57	2166.00	7630

Source: Size of Holdings Survey by FIDL and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VI

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT SAHLWAL

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	1.00	4	-	-	0.07	1	0.18	2	-	-	-	-	0.75	1	-	-	-	-	1.00	4
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	1.00	2	-	-	-	-	-	-	-	-	-	-	1.00	2	-	-	-	-	1.00	2
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	2.00	7	-	-	-	-	-	-	0.76	4	0.59	2	0.65	1	-	-	-	-	2.00	7
1951	4.00	15	-	-	0.06	1	0.88	5	2.46	8	0.60	1	-	-	-	-	-	-	4.00	15
1952	2.00	6	-	-	0.32	2	0.68	2	1.00	2	-	-	-	-	-	-	-	-	2.00	6
1953	3.00	9	-	-	-	-	0.33	2	2.26	6	0.41	1	-	-	-	-	-	-	3.00	9
1954	5.00	17	-	-	-	-	1.60	7	0.40	1	2.00	6	0.55	2	0.45	1	-	-	5.00	17
1955	5.00	13	-	-	-	-	-	-	0.20	1	1.10	4	1.30	3	0.40	1	2.00	4	5.00	13
1956	9.00	31	0.09	1	0.52	5	0.88	6	1.88	7	4.00	9	1.63	3	-	-	-	-	9.00	31
1957	12.00	28	-	-	-	-	1.55	4	1.71	4	4.99	12	1.75	4	2.00	4	-	-	12.00	28
1958	22.00	72	0.44	3	1.13	8	3.31	15	2.79	11	6.85	19	5.48	11	2.00	5	-	-	22.00	72
1959	57.00	165	0.37	6	2.05	12	8.18	32	16.61	46	22.25	54	6.54	13	1.00	2	-	-	57.00	165
1960	129.00	458	2.10	17	8.27	60	19.46	101	37.13	127	45.91	120	11.70	24	3.57	8	0.86	1	129.00	458
1961	188.00	672	3.24	23	9.86	62	23.21	114	52.77	196	66.04	203	24.95	59	7.93	15	-	-	188.00	672
1962	294.00	958	5.54	26	14.14	62	38.30	177	80.78	284	98.39	278	45.16	107	9.86	22	1.83	2	294.00	958
1963	388.00	1299	7.56	63	18.45	105	55.16	252	111.29	375	134.30	361	50.73	122	8.51	17	2.00	4	388.00	1299
1964	392.00	1310	11.29	55	22.96	139	53.32	271	125.99	406	117.31	307	53.99	117	5.58	12	1.56	3	392.00	1310
1965	344.00	1195	5.30	49	22.52	136	53.06	232	101.60	351	121.65	342	35.12	76	3.99	8	0.76	1	344.00	1195
1966	2.00	7	-	-	-	-	-	-	2.00	7	-	-	-	-	-	-	-	-	2.00	7
Total:	1850.00	6268	35.93	243	100.35	593	260.10	1222	541.63	1836	626.39	1719	241.30	545	45.29	95	9.01	15	1860.00	6268

Source: Size of Holdings Survey by PIDL and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VI1

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT LAHORE

. Land Holdings of Farmers Installing (acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	1	2	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	-	1.00	2
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	2	4	-	-	-	-	-	-	1.00	2	-	-	0.25	1	-	-	0.75	1	2.00	4
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	4	13	0.50	4	-	-	-	-	1.50	4	1.00	2	-	-	-	-	1.00	3	4.00	13
1953	4	8	-	-	-	-	-	-	-	-	1.45	3	2.55	5	-	-	-	-	4.00	8
1954	5	15	2.00	6	-	-	1.00	4	1.00	2	1.00	3	-	-	-	-	-	-	5.00	15
1955	5	12	-	-	1.00	2	-	-	2.44	7	0.81	2	0.75	1	-	-	-	-	5.00	12
1956	3	7	-	-	-	-	-	-	1.00	2	1.32	4	0.68	1	-	-	-	-	3.00	7
1957	7	18	1.00	2	1.00	3	1.66	6	0.34	1	3.00	6	-	-	-	-	-	-	7.00	18
1958	8	25	-	-	0.75	5	0.24	1	3.72	9	2.29	8	1.00	2	-	-	-	-	8.00	25
1959	9	24	0.21	1	1.78	5	-	-	2.52	6	3.49	10	-	-	0.33	1	0.67	1	9.00	24
1960	25	75	1.50	4	3.22	8	3.31	14	9.71	32	3.72	9	1.68	4	1.00	2	0.86	2	25.00	75
1961	24	75	1.68	12	1.40	6	7.35	25	5.89	13	5.68	15	0.58	2	0.67	1	0.75	1	24.00	75
1962	29	91	1.35	4	0.19	1	5.11	16	8.60	31	12.09	34	1.66	5	-	-	-	-	29.00	91
1963	58	160	0.96	5	5.77	24	8.73	32	18.60	47	12.48	31	6.53	11	2.93	5	2.00	5	58.00	160
1964	91	424	4.66	21	8.20	46	8.55	63	26.32	122	30.83	126	9.06	35	2.57	9	0.81	2	91.00	424
1965	77	234	2.39	15	4.68	15	12.93	52	23.96	63	21.63	63	9.27	21	2.14	5	-	-	77.00	234
1966	1	3	-	-	-	-	-	-	-	-	0.20	1	0.80	2	-	-	-	-	1.00	3
Total	353	1190	16.25	74	27.99	115	48.88	213	107.60	343	100.99	317	34.81	90	9.64	23	6.84	15	353.00	1190

Source: Size of holdings Survey by FIDL and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VIII

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT GUJRANWALA

. Land holdings of Farmers Installing (acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	1	2	0.20	1	-	-	0.80	1	-	-	-	-	-	-	-	-	-	-	1.00	2
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	1	2	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	-	1.00	2
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	3	8	-	-	1.00	3	-	-	1.00	3	1.00	2	-	-	-	-	-	-	3.00	8
1953	1	2	-	-	-	-	-	-	0.59	1	0.41	1	-	-	-	-	-	-	1.00	2
1954	2	4	-	-	-	-	-	-	1.40	3	0.60	1	-	-	-	-	-	-	2.00	4
1955	9	26	0.07	2	0.13	1	0.79	6	4.22	11	2.79	5	-	-	1.00	1	-	-	9.00	26
1956	20	59	1.64	8	1.93	5	3.59	13	6.60	21	5.50	11	0.74	1	-	-	-	-	20.00	39
1957	10	33	0.49	8	1.33	5	2.57	8	2.61	6	2.00	4	1.00	2	-	-	-	-	10.00	33
1958	32	112	1.77	20	1.90	13	3.89	17	10.94	31	12.19	29	1.31	2	-	-	-	-	32.00	112
1959	44	120	0.32	8	3.78	15	8.03	29	15.06	33	13.55	29	2.40	5	-	-	0.86	1	44.00	120
1960	100	262	4.41	26	6.26	24	12.95	43	31.08	78	38.06	79	6.25	9	0.99	3	-	-	100.00	262
1961	113	308	4.05	19	3.94	17	14.25	49	40.76	118	41.68	91	7.65	13	0.67	1	-	-	113.00	308
1962	215	585	6.54	30	12.78	60	40.48	132	74.01	201	55.55	116	24.08	44	1.56	2	-	-	215.00	585
1963	316	873	12.69	86	18.69	82	49.40	157	110.04	290	95.02	205	29.16	52	1.00	1	-	-	316.00	873
1964	348	940	9.65	67	15.17	64	59.03	209	121.87	318	108.21	224	29.73	52	4.34	6	-	-	348.00	940
1965	304	823	15.66	77	15.28	64	56.64	188	105.65	278	89.56	184	17.28	27	3.93	5	-	-	304.00	823
1966	1	2	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	-	1.00	2
Total:	1520	4161	57.49	352	82.19	353	252.42	852	527.83	1396	466.12	981	119.60	207	13.49	19	0.86	1	1520.00	4161

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table Va

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN TALSIL MULTAN

. Land holdings of Farmers Installing Tubewells (acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	3	8	-	-	-	-	1.00	4	1.00	2	0.29	1	-	-	0.71	1	-	-	3.00	8
1953	1	2	-	-	-	-	-	-	-	-	-	-	0.44	1	0.56	1	-	-	1.00	2
1954	2	6	-	-	0.36	3	-	-	-	-	0.64	1	-	-	-	-	1.00	2	2.00	6
1955	3	8	-	-	-	-	-	-	2.30	6	0.70	2	-	-	-	-	-	-	3.00	8
1956	7	21	-	-	1.00	5	0.09	1	3.65	10	0.26	1	-	-	1.00	2	1.00	2	7.00	21
1957	4	11	-	-	-	-	1.00	2	1.00	4	0.20	1	0.56	2	1.24	2	-	-	4.00	11
1958	1	3	-	-	-	-	-	-	-	-	1.00	3	-	-	-	-	-	-	1.00	3
1959	7	19	-	-	1.00	3	1.00	4	0.73	3	3.27	7	1.00	2	-	-	-	-	7.00	19
1960	19	52	-	-	-	-	4.27	17	5.65	15	5.41	13	2.67	5	1.00	2	-	-	19.00	52
1961	22	68	-	-	0.44	4	1.36	6	4.10	11	10.58	29	3.16	12	1.36	4	1.00	2	22.00	68
1962	39	133	0.80	5	3.19	8	4.62	20	9.01	40	11.16	37	9.42	22	0.80	1	-	-	39.00	133
1963	30	102	0.04	1	0.30	5	1.60	12	11.39	40	11.67	33	5.00	11	-	-	-	-	30.00	102
1964	42	110	0.12	1	0.71	4	4.26	19	8.26	25	22.72	49	4.93	10	1.00	2	-	-	42.00	110
1965	20	68	-	-	0.32	3	3.61	15	6.76	24	6.36	19	1.95	5	-	-	1.00	2	20.00	68
1966	1	2	-	-	1.00	2	-	-	-	-	-	-	-	-	-	-	-	-	1.00	2
Total:	201	613	0.96	7	8.32	37	22.81	100	53.85	180	74.26	196	29.13	70	7.67	15	4.00	8	201.00	613

Source: Size of Holdings Survey by FIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table Vb

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN TENSIL KHANUWAL

. Land holdings of Farmers Installing Tubewells (acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	1	3	0.58	2	0.42	1	-	-	-	-	-	-	-	-	-	-	-	-	1.00	3
1951	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00	2	1.00	2
1952	1	5	-	-	-	-	-	0.68	4	0.32	1	-	-	-	-	-	-	-	1.00	5
1953	2	5	-	-	-	-	-	-	-	2.00	5	-	-	-	-	-	-	-	2.00	5
1954	1	2	-	-	-	-	-	-	-	-	-	1.00	2	-	-	-	-	-	1.00	2
1955	1	2	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	-	-	1.00	2
1956	1	3	-	-	-	0.30	2	0.70	1	-	-	-	-	-	-	-	-	-	1.00	3
1957	3	7	-	-	-	-	-	-	-	-	-	2.33	6	0.67	1	-	-	-	3.00	7
1958	4	17	0.09	1	-	-	-	2.00	13	1.91	3	-	-	-	-	-	-	-	4.00	17
1959	6	21	-	-	-	-	-	2.15	7	3.28	13	0.57	1	-	-	-	-	-	6.00	21
1960	45	159	1.61	9	0.71	11	4.07	15	4.39	23	12.55	49	20.67	50	1.00	2	-	-	45.00	159
1961	60	224	1.19	6	3.43	19	1.62	10	9.17	58	25.50	68	16.14	38	1.20	2	1.75	3	60.00	224
1962	67	270	0.58	7	3.54	19	8.08	42	15.36	86	19.25	69	17.19	41	2.00	4	1.00	2	67.00	270
1963	111	430	2.44	18	9.70	57	16.51	101	27.24	104	38.10	106	16.01	42	1.00	2	-	-	111.00	430
1964	95	354	0.92	16	4.48	44	12.96	62	26.26	102	35.28	101	13.24	26	1.00	2	0.86	1	95.00	354
1965	75	299	4.42	32	6.86	45	13.90	63	21.43	76	19.03	62	8.36	19	-	-	1.00	2	75.00	299
1966	4	10	-	-	-	-	-	-	-	-	2.67	7	1.33	3	-	-	-	-	4.00	10
Total	478	1813	11.83	91	29.14	196	57.44	295	110.38	476	159.89	504	96.84	228	6.87	13	5.61	10	478.00	1813

Source: Size of Holdings Survey by PIPD and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table Vc

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN TALSIL KABIRWALA

. Land holdings of Farmers Installing Tubewells (acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	2	6	-	-	-	-	-	-	-	1.00	4	-	-	-	-	1.00	2	2.00	6	
1955	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	2	6	-	-	-	-	-	-	-	2.00	6	-	-	-	-	-	-	2.00	6	
1957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	3	7	-	-	-	-	0.10	1	-	2.00	5	0.90	1	-	-	-	-	3.00	7	
1959	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	4	19	-	-	-	0.55	5	1.16	7	2.01	6	0.28	1	-	-	-	-	4.00	19	
1961	14	45	0.39	3	0.83	4	0.35	2	3.43	14	4.01	11	3.41	8	0.57	1	1.01	2	14.00	45
1962	22	86	-	-	1.00	5	2.83	37	4.16	14	7.60	19	6.41	13	-	-	-	22.00	86	
1963	41	102	-	-	0.40	2	1.94	6	7.26	23	17.94	44	12.81	26	0.65	1	-	41.00	102	
1964	61	187	0.55	8	1.52	13	9.56	35	14.87	44	18.65	50	13.33	32	0.52	1	2.00	4	61.00	187
1965	56	185	0.15	6	2.41	10	11.67	51	14.17	47	16.63	46	8.73	21	1.24	2	1.00	2	56.00	185
1966	1	2	-	-	-	-	0.40	1	0.60	1	-	-	-	-	-	-	-	1.00	2	
Total:	206	647	1.09	17	6.16	34	27.40	138	45.65	150	71.84	191	45.87	102	2.98	5	5.01	10	206.00	647

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table Vd

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULLAN TALSIL VEHARI

. Land holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	4-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	2	6	-	-	-	-	-	-	-	0.33	1	1.67	5	-	-	-	-	-	2.00	6
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	2	6	-	-	-	-	-	0.08	1	0.42	2	0.50	1	1.00	2	-	-	-	2.00	6
1954	3	10	-	-	-	-	-	-	-	3.00	10	-	-	-	-	-	-	-	3.00	10
1955	1	2	-	-	-	-	-	-	-	-	-	-	1.00	2	-	-	-	-	1.00	2
1956	4	12	-	-	0.17	1	0.20	1	0.39	1	2.24	7	-	1.00	2	-	-	-	4.00	12
1957	4	9	-	-	0.30	1	0.39	2	0.70	1	0.61	1	2.00	4	-	-	-	-	4.00	9
1958	4	16	-	-	-	-	1.00	2	1.00	4	1.20	8	0.80	2	-	-	-	-	4.00	16
1959	16	40	-	-	-	-	1.00	3	3.78	10	6.76	18	3.46	7	1.00	2	-	-	16.00	40
1960	33	119	0.03	1	0.32	2	3.67	19	12.76	47	14.22	44	2.00	6	-	-	-	-	33.00	119
1961	46	196	1.96	21	3.26	25	5.43	27	17.02	65	14.69	48	3.64	10	-	-	-	-	46.00	196
1962	62	203	1.05	3	2.02	11	10.21	38	17.58	60	22.43	70	7.94	20	0.77	1	-	-	62.00	203
1963	87	363	1.80	11	3.26	15	15.67	76	27.36	136	32.17	108	5.80	15	0.94	2	-	-	87.00	363
1964	94	387	2.45	14	3.93	17	8.64	39	31.07	172	37.24	120	9.65	23	1.02	2	-	-	94.00	387
1965	100	382	1.87	13	2.93	12	17.24	80	32.14	130	35.36	123	10.46	24	-	-	-	-	100.00	382
1966	1	3	-	-	0.16	1	-	-	0.84	2	-	-	-	-	-	-	-	-	1.00	3
Total:	459	1754	9.16	63	16.35	85	63.45	287	144.72	629	170.67	560	47.92	117	6.73	13	-	-	459.00	1754

Source: Size of Holdings Survey by FIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table Ve

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN TEHSIL MAILSI

. Land holdings of farmers installing Tubewells (acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	1	2	-	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	1.00	2
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	1	20	-	-	1.00	20	-	-	-	-	-	-	-	-	-	-	-	-	1.00	20
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	1	2	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	-	1.00	2
1953	2	22	-	-	-	-	1.00	20	-	-	-	-	0.45	1	0.55	1	-	-	2.00	22
1954	1	20	1.00	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00	20
1955	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	7	37	1.00	20	0.09	1	-	-	1.28	4	1.63	3	2.40	8	0.60	1	-	-	7.00	37
1957	4	9	-	-	-	-	-	-	0.12	1	2.88	6	1.00	2	-	-	-	-	4.00	9
1958	16	77	-	-	1.00	4	1.00	20	1.34	22	7.26	19	5.40	12	-	-	-	-	16.00	77
1959	13	38	0.12	2	0.44	5	0.49	4	0.93	3	3.63	10	6.20	12	1.19	2	-	-	13.00	38
1960	34	139	0.49	10	0.16	4	2.18	13	9.85	53	13.06	40	7.69	18	0.57	1	-	-	34.00	139
1961	40	152	0.21	6	1.61	15	5.38	32	9.58	42	13.94	38	8.39	18	0.89	1	-	-	40.00	152
1962	57	208	0.21	4	1.39	9	7.86	40	10.61	56	24.96	70	9.14	24	2.00	4	0.83	1	57.00	208
1963	78	291	1.04	19	4.61	24	3.85	28	18.33	89	35.44	99	10.23	23	3.50	7	1.00	2	78.00	291
1964	90	318	3.54	22	7.12	30	10.98	49	14.37	60	35.10	112	14.58	37	3.05	6	1.26	2	90.00	318
1965	63	234	1.59	11	5.59	30	8.66	47	16.46	59	23.17	69	6.53	16	1.00	2	-	-	63.00	234
1966	3	11	-	-	0.10	1	0.13	1	1.42	4	1.35	5	-	-	-	-	-	-	3.00	11
Total:	411	1580	9.20	114	23.11	143	41.53	254	85.29	395	163.42	473	72.01	171	13.35	25	3.09	5	411.00	1580

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore region, 1965/65.

Table VI

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN TEHSIL LODHRAN

. Land holdings of Farmers Installing tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	1	2	-	-	-	-	-	-	-	-	-	-	-	1.00	2	-	-	-	1.00	2
1953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	1	2	-	-	-	-	-	-	-	-	-	1.00	2	-	-	-	-	-	1.00	2
1956	1	2	-	-	-	-	-	-	-	-	-	-	-	1.00	2	-	-	-	1.00	2
1957	2	5	-	-	-	-	-	-	-	1.00	2	1.00	3	-	-	-	-	-	2.00	5
1958	3	7	-	-	-	-	-	1.00	2	2.00	5	-	-	-	-	-	-	-	3.00	7
1959	9	25	1.00	2	-	-	0.92	5	2.08	5	1.10	4	3.30	8	-	-	0.60	1	9.00	25
1960	25	74	1.00	4	-	-	2.64	11	3.85	12	10.87	30	3.10	8	3.54	9	-	-	25.00	74
1961	36	99	-	-	0.64	4	1.45	8	12.94	40	12.00	27	4.97	13	2.46	5	1.54	2	36.00	99
1962	56	164	0.00	1	1.03	7	5.19	23	18.69	53	17.97	54	9.45	19	3.07	6	0.60	1	56.00	164
1963	57	189	2.30	7	2.69	16	6.86	32	10.81	42	23.16	66	9.48	23	1.70	3	-	-	57.00	189
1964	62	184	1.59	10	2.68	19	4.87	23	15.20	42	19.63	52	13.36	29	3.23	7	1.44	2	62.00	184
1965	35	109	0.57	3	3.22	14	6.66	20	8.12	31	10.83	28	5.36	11	1.24	2	-	-	36.00	109
1966	2	4	-	-	-	-	-	-	-	1.50	3	0.50	1	-	-	-	-	-	2.00	4
Total:	291	866	6.46	27	10.26	60	28.59	122	72.69	227	100.06	271	51.52	117	17.24	36	4.18	6	291.00	866

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table Vg

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT MULTAN TALSIL SHUJABAD

. Land Holdings of Farmers Installing Tubewells (acres)

Year of Installation	No. of J.T. wells	No. of Part-wells	0-4.9		5-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-wells
			No. of J.T. wells	No. of Part-wells	No. of J.T. wells	No. of Part-wells	No. of J.T. wells	No. of Part-wells	No. of J.T. wells	No. of Part-wells	No. of J.T. wells	No. of Part-wells	No. of J.T. wells	No. of Part-wells	No. of J.T. wells	No. of Part-wells	No. of J.T. wells	No. of Part-wells		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	1	3	-	-	-	-	-	-	-	1.00	3	-	-	-	-	-	-	-	1.00	3
1950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	2	5	-	-	-	-	-	-	-	2.00	5	-	-	-	-	-	-	-	2.00	5
1953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	5	11	-	-	-	-	-	-	-	1.00	2	2.28	5	0.29	1	1.43	3	5.00	11	
1959	6	20	-	-	0.51	2	1.02	7	2.23	6	0.74	2	1.50	3	-	-	-	6.00	20	
1960	5	16	00	1	0.48	3	0.50	2	1.18	3	1.00	2	0.84	1	-	-	1.00	5.00	16	
1961	13	45	00	2	0.65	6	0.89	5	3.28	9	2.49	9	3.33	9	0.23	1	2.13	13.00	45	
1962	22	79	1.46	10	-	-	1.19	8	5.07	21	8.83	26	4.28	12	1.17	2	-	22.00	79	
1963	20	54	00	2	0.28	1	2.73	7	5.41	15	5.91	17	2.53	6	2.14	4	1.00	20.00	54	
1964	30	77	-	-	1.23	3	2.63	13	4.58	13	7.82	18	8.83	18	3.29	7	1.62	30.00	77	
1965	17	49	00	1	2.82	7	1.25	5	4.88	13	6.05	18	2.00	5	-	-	-	17.00	49	
1966	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total:	121	357	1.46	16	5.97	22	10.21	47	26.63	80	36.84	102	25.59	59	7.12	15	7.18	18	121.00	359

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VIa

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT SAHIWAL TEHSIL SAHIWAL

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	1	4	-	-	-	-	-	-	1.00	4	-	-	-	-	-	-	-	-	1.00	4
1952	1	2	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	-	1.00	2
1953	1	3	-	-	-	-	-	-	1.00	3	-	-	-	-	-	-	-	-	1.00	3
1954	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	1	2	-	-	-	-	-	-	-	0.30	1	0.70	1	-	-	-	-	-	1.00	2
1956	3	7	-	-	-	-	-	-	1.33	4	0.67	1	1.00	2	-	-	-	-	3.00	7
1957	4	10	-	-	-	-	1.00	2	-	-	2.00	6	1.00	2	-	-	-	-	4.00	10
1958	3	9	-	-	0.14	1	-	-	0.86	2	2.00	6	-	-	-	-	-	-	3.00	9
1959	9	22	-	-	-	-	-	-	2.63	8	5.70	13	0.67	1	-	-	-	-	9.00	22
1960	32	112	0.00	2	1.12	3	5.12	28	9.72	35	13.62	39	2.42	5	-	-	-	-	32.00	112
1961	65	269	1.13	10	2.92	24	4.44	33	14.37	75	32.55	106	9.59	21	-	-	-	-	65.00	269
1962	103	389	1.66	11	2.62	21	11.77	77	28.84	117	44.78	133	11.44	26	1.89	4	-	-	103.00	389
1963	134	471	1.30	12	8.04	46	12.57	74	42.07	157	55.42	153	13.30	26	0.30	1	1.00	2	134.00	471
1964	112	373	1.42	10	7.16	38	15.00	82	30.91	107	41.47	109	12.60	21	2.64	5	0.80	1	112.00	373
1965	128	461	2.58	20	7.49	52	17.09	77	39.83	146	44.34	134	13.66	26	2.25	5	0.76	1	128.00	461
1966	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:	597	2134	8.09	65	29.49	185	66.99	373	173.56	660	242.85	701	66.38	131	7.08	15	2.56	4	597.00	2134

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VIb

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT SAHIWAL TEHSIL PAKPATTAN

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	1	4	-	-	0.07	1	0.18	2	-	-	-	0.75	1	-	-	-	-	-	1.00	4
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	1	2	-	-	-	-	-	-	-	-	-	1.00	2	-	-	-	-	-	1.00	2
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	3	11	-	-	0.06	1	0.88	5	1.46	4	0.60	1	-	-	-	-	-	-	3.00	11
1952	1	4	-	-	0.32	2	0.68	2	-	-	-	-	-	-	-	-	-	-	1.00	4
1953	2	6	-	-	-	-	0.33	2	1.26	3	0.41	1	-	-	-	-	-	-	2.00	6
1954	4	13	-	-	-	-	1.60	7	0.40	1	1.00	2	0.55	2	0.45	1	-	-	4.00	13
1955	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	6	24	0.09	1	0.52	5	0.88	6	0.55	3	3.33	8	0.63	1	-	-	-	-	6.00	24
1957	6	13	-	-	-	-	0.55	2	1.71	4	2.74	5	-	-	1.00	2	-	-	6.00	13
1958	10	33	0.42	2	0.79	4	2.75	10	1.14	6	2.66	7	1.24	2	1.00	2	-	-	10.00	33
1959	30	87	-	-	1.48	8	4.30	19	10.40	27	11.15	28	1.67	3	1.00	2	-	-	30.00	87
1960	50	202	1.66	9	4.79	45	9.37	46	13.10	50	15.04	40	2.61	6	2.57	5	0.86	1	50.00	202
1961	73	255	2.05	12	2.96	22	10.82	57	22.54	77	21.67	57	7.52	19	5.44	10	-	-	73.00	255
1962	110	356	3.36	12	9.44	33	19.02	76	29.88	104	28.49	83	15.35	42	3.57	9	0.89	1	110.00	356
1963	172	603	4.59	38	6.34	43	30.83	138	50.55	163	51.62	147	20.86	60	7.21	14	-	-	172.00	603
1964	201	711	8.48	39	13.91	88	30.65	159	69.64	223	51.72	138	24.60	59	1.24	3	0.76	2	201.00	711
1965	150	528	2.12	23	11.41	64	27.73	121	46.07	148	49.57	139	12.56	32	0.54	1	-	-	150.00	528
1966	1	3	-	-	-	-	-	-	1.00	3	-	-	-	-	-	-	-	-	1.00	3
Total:	821	2855	22.77	124	52.09	316	140.57	652	249.70	816	240.00	655	89.34	229	24.02	49	2.51	4	821.00	2855

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VIc

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT SAHIWAL TEHSIL OKARA

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	1	5	-	-	-	-	-	0.76	4	0.24	1	-	-	-	-	-	-	-	1.00	5
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	4	2.00	4
1956	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	5	19	0.02	1	0.20	3	0.56	5	0.79	3	1.43	2	1.00	2	1.00	3	-	-	5.00	19
1959	8	20	-	-	0.33	1	2.86	7	2.21	6	2.20	5	0.40	1	-	-	-	-	8.00	20
1960	19	46	-	-	-	-	2.39	9	8.65	20	6.96	15	1.00	2	-	-	-	-	19.00	46
1961	28	69	0.06	1	3.68	11	6.63	16	11.62	27	5.00	11	1.01	3	-	-	-	-	28.00	69
1962	34	91	0.52	3	2.08	8	6.89	19	14.04	35	6.60	19	2.93	6	-	-	0.94	1	34.00	91
1963	30	89	1.67	13	3.01	11	7.84	25	9.06	23	5.42	11	3.00	6	-	-	-	-	30.00	89
1964	39	126	0.39	3	1.89	13	7.34	29	18.03	54	7.54	17	3.11	8	0.70	2	-	-	39.00	126
1965	25	85	0.05	1	1.76	9	2.34	11	8.73	33	9.37	26	2.05	4	0.70	1	-	-	25.00	85
1966	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:	191	554	2.71	22	12.95	56	36.85	121	73.89	205	44.76	107	14.50	32	2.40	6	2.94	5	191.00	554

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VI d

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT SAHIWAL TEHSIL DIPALPUR

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	1	2	-	-	-	-	-	-	-	0.35	1	0.65	1	-	-	-	-	1.00	2	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	1	4	-	-	-	-	-	-	-	1.00	4	-	-	-	-	-	-	1.00	4	-
1955	2	7	-	-	-	-	-	0.20	1	0.80	3	0.60	2	0.40	1	-	-	2.00	7	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	2	5	-	-	-	-	-	-	-	0.25	1	0.75	2	1.00	2	-	-	2.00	5	-
1958	4	11	-	-	-	-	-	-	-	0.76	4	3.24	7	-	-	-	-	4.00	11	-
1959	10	36	0.37	6	0.24	3	1.02	6	1.37	5	3.20	8	3.80	8	-	-	-	10.00	36	-
1960	28	98	0.44	6	2.36	12	2.58	18	5.66	22	10.29	26	5.67	11	1.00	3	-	28.00	98	-
1961	22	80	-	-	0.30	5	1.32	8	4.24	17	6.82	29	6.83	16	2.49	5	-	22.00	80	-
1962	47	122	-	-	-	-	0.62	5	8.02	28	18.52	46	15.44	33	4.40	10	-	47.00	122	-
1963	52	136	-	-	1.06	5	3.92	15	9.61	32	21.84	50	13.57	30	1.00	2	1.00	52.00	136	-
1964	40	100	1.00	3	-	-	0.33	1	7.41	22	16.58	43	13.68	29	1.00	2	-	40.00	100	-
1965	41	121	0.55	5	1.86	11	5.90	23	6.97	24	18.37	43	6.85	14	0.50	1	-	41.00	121	-
1966	1	4	-	-	-	-	-	-	1.00	4	-	-	-	-	-	-	-	1.00	4	-
Total:	251	726	2.36	20	5.82	36	15.69	76	44.48	155	98.78	258	71.08	153	11.79	26	1.00	2	251.00	726

Source: Size of Holdings Survey by FIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VIIa

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT LAHORE TEHSIL LAHORE

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	2	5	-	-	-	-	-	-	-	1.00	2	-	-	-	-	1.00	3	2.00	5	
1953	1	2	-	-	-	-	-	-	-	-	-	1.00	2	-	-	-	-	1.00	2	
1954	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1955	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1956	2	4	-	-	-	-	-	1.00	2	0.32	1	0.68	1	-	-	-	-	2.00	4	
1957	4	11	1.00	2	1.00	3	0.66	3	0.34	1	1.00	2	-	-	-	-	-	4.00	11	
1958	4	17	-	-	0.75	5	0.24	1	0.72	3	2.29	8	-	-	-	-	-	4.00	17	
1959	5	15	0.21	1	1.78	5	-	-	1.01	2	2.00	7	-	-	-	-	-	5.00	15	
1960	7	23	-	-	0.22	1	0.31	1	5.07	17	1.40	4	-	-	-	-	-	7.00	23	
1961	5	12	-	-	0.33	1	1.67	3	2.00	4	1.00	4	-	-	-	-	-	5.00	12	
1962	8	23	1.20	3	-	-	1.32	4	3.76	10	1.72	6	-	-	-	-	-	8.00	23	
1963	14	40	0.45	1	3.01	9	3.10	13	1.86	4	3.73	10	1.85	3	-	-	-	14.00	40	
1964	21	70	1.53	6	4.95	18	2.63	10	4.31	12	7.58	24	-	-	-	-	-	21.00	70	
1965	20	55	1.30	6	2.38	6	2.32	8	6.64	18	5.33	13	2.03	4	-	-	-	20.00	55	
1966	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total:	93	277	5.69	19	14.42	48	12.25	43	26.71	73	27.37	81	5.56	10	-	-	1.00	3	93.00	277

Source: Size of Holdings Survey by FIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VIIb

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT LAHORE TEHSIL KASUR

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	1	2	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	-	1.00	2
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	2	4	-	-	-	-	-	-	1.00	2	-	-	0.25	1	-	-	0.75	1	2.00	4
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	2	8	0.50	4	-	-	-	-	1.50	4	-	-	-	-	-	-	-	-	2.00	8
1953	2	4	-	-	-	-	-	-	-	-	1.45	3	0.55	1	-	-	-	-	2.00	4
1954	2	7	1.00	3	-	-	1.00	4	-	-	-	-	-	-	-	-	-	-	2.00	7
1955	2	4	-	-	1.00	2	-	-	0.44	1	0.56	1	-	-	-	-	-	-	2.00	4
1956	1	3	-	-	-	-	-	-	-	-	1.00	3	-	-	-	-	-	-	1.00	3
1957	2	5	-	-	-	-	1.00	3	-	-	1.00	2	-	-	-	-	-	-	2.00	5
1958	2	4	-	-	-	-	-	-	2.00	4	-	-	-	-	-	-	-	-	2.00	4
1959	2	5	-	-	-	-	-	-	0.51	2	0.49	1	-	-	0.33	1	0.67	1	2.00	5
1960	7	18	1.00	3	3.00	7	-	-	1.16	3	0.32	1	0.66	2	-	-	0.86	2	7.00	18
1961	5	13	-	-	-	-	1.44	5	2.56	6	1.00	2	-	-	-	-	-	-	5.00	13
1962	2	5	-	-	-	-	2.00	5	-	-	-	-	-	-	-	-	-	-	2.00	5
1963	23	67	0.51	4	2.39	13	4.15	14	10.31	25	3.00	6	0.71	1	0.93	1	1.00	3	23.00	67
1964	38	258	1.50	6	2.80	21	3.90	44	11.47	79	11.48	71	4.21	27	1.83	8	0.81	2	38.00	258
1965	26	74	0.59	4	1.51	6	5.23	15	10.46	24	6.04	18	1.70	5	0.47	2	-	-	26.00	74
1966	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:	119	481	5.10	24	10.70	49	18.72	90	42.41	152	26.34	108	8.08	37	3.56	12	4.09	9	119.00	481

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VIIc

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT LAHORE TEHSIL CHUNIAN

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	1	2	-	-	-	-	-	-	-	-	-	1.00	2	-	-	-	-	-	1.00	2
1954	3	8	1.00	3	-	-	-	-	1.00	2	1.00	3	-	-	-	-	-	-	3.00	8
1955	3	8	-	-	-	-	-	-	2.00	6	0.25	1	0.75	1	-	-	-	-	3.00	8
1956	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	1	2	-	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	1.00	2
1958	2	4	-	-	-	-	-	-	1.00	2	-	1.00	2	-	-	-	-	-	2.00	4
1959	2	4	-	-	-	-	-	-	1.00	2	1.00	2	-	-	-	-	-	-	2.00	4
1960	11	34	0.50	1	-	-	3.00	13	3.48	12	2.00	4	1.02	2	1.00	2	-	-	11.00	34
1961	14	50	1.68	12	1.07	5	4.24	17	1.33	3	3.68	9	0.58	2	0.67	1	0.75	1	14.00	50
1962	19	63	0.15	1	0.19	1	1.79	7	4.84	21	10.37	28	1.66	5	-	-	-	-	19.00	63
1963	21	53	-	-	0.37	2	1.48	5	6.43	18	5.75	15	3.97	7	2.00	4	1.00	2	21.00	53
1964	32	96	1.63	9	0.45	7	2.02	9	10.54	31	11.77	31	4.85	8	0.74	1	-	-	32.00	96
1965	31	105	0.50	5	0.79	3	5.38	29	6.86	21	10.26	32	5.54	12	1.67	3	-	-	31.00	105
1966	1	3	-	-	-	-	-	-	-	0.20	1	0.80	2	-	-	-	-	-	1.00	3
Total:	141	432	5.46	31	2.87	18	17.91	80	38.48	118	47.28	128	21.17	43	6.08	11	1.75	3	141.00	432

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VIIIa

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT GUJRANWALA TEHSIL GUJRANWALA

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	1	2	-	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	1.00	2
1953	1	2	-	-	-	-	-	-	0.59	1	0.41	1	-	-	-	-	-	-	1.00	2
1954	1	2	-	-	-	-	-	-	0.40	1	0.60	1	-	-	-	-	-	-	1.00	2
1955	6	13	00	1	-	-	0.24	1	2.45	6	2.31	4	-	-	1.00	1	-	-	6.00	13
1956	12	39	00	3	1.16	3	1.25	7	5.09	17	4.50	9	-	-	-	-	-	-	12.00	39
1957	5	10	-	-	1.00	2	1.48	3	0.52	1	2.00	4	-	-	-	-	-	-	5.00	10
1958	21	66	0.41	9	0.20	2	1.00	6	7.91	22	10.17	25	1.31	2	-	-	-	-	21.00	66
1959	17	43	00	1	1.00	4	2.60	8	7.05	16	4.35	10	2.00	4	-	-	-	-	17.00	43
1960	55	128	1.00	5	2.39	9	2.63	7	19.45	46	23.99	51	4.54	7	0.99	3	-	-	55.00	128
1961	59	159	0.99	6	0.31	2	6.65	22	19.71	58	25.50	58	4.17	8	0.67	1	-	-	59.00	159
1962	120	324	1.03	5	3.35	25	24.07	78	44.85	117	37.70	81	8.44	17	0.56	1	-	-	120.00	324
1963	170	449	5.89	34	4.95	27	15.38	48	64.15	174	59.83	131	18.75	34	1.00	1	-	-	170.00	449
1964	204	524	3.86	22	6.25	28	29.11	96	71.87	188	73.80	157	17.44	31	1.67	2	-	-	204.00	524
1965	156	429	6.48	31	5.73	29	26.99	90	56.26	155	47.48	104	11.56	18	1.50	2	-	-	156.00	429
1966	1	2	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	-	1.00	2
Total:	829	2192	19.66	117	26.34	133	111.40	265	301.31	804	294.69	640	68.21	121	7.39	11	-	-	829.00	2192

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VIIIb

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT GUJRANWALA TEHSIL WAZIRABAD

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	1	2	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	-	1.00	2
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	3	13	0.07	1	0.13	1	0.55	5	1.77	5	0.48	1	-	-	-	-	-	-	3.00	13
1956	6	16	1.00	3	0.10	1	1.65	5	1.51	4	1.00	2	0.74	1	-	-	-	-	6.00	16
1957	5	23	0.49	8	0.33	3	1.09	5	2.09	5	-	-	1.00	2	-	-	-	-	5.00	23
1958	9	39	0.36	6	1.70	11	1.89	9	3.03	9	2.02	4	-	-	-	-	-	-	9.00	39
1959	21	61	0.32	7	0.79	5	3.86	18	7.57	16	8.46	15	-	-	-	-	-	-	21.00	61
1960	34	101	2.41	19	3.78	14	5.56	20	9.47	25	11.07	21	1.71	2	-	-	-	-	34.00	101
1961	29	79	0.99	5	1.49	6	3.39	12	11.22	32	9.58	21	2.33	3	-	-	-	-	29.00	79
1962	63	171	3.51	15	4.99	19	9.80	34	22.66	63	13.88	28	7.16	11	1.00	1	-	-	63.00	171
1963	100	303	3.80	44	6.01	31	21.61	74	36.81	93	24.74	50	7.03	11	-	-	-	-	100.00	303
1964	102	298	3.28	33	3.53	17	20.29	81	40.58	105	26.11	49	7.21	12	1.00	1	-	-	102.00	298
1965	103	275	7.10	38	7.03	28	21.53	68	29.22	71	33.80	64	3.39	5	0.93	1	-	-	103.00	275
1966	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:	476	1381	23.33	179	29.88	136	91.22	331	166.93	430	131.14	255	30.57	47	2.93	3	-	-	476.00	1381

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

Table VIIIc

DISTRIBUTION OF JOINT TUBEWELLS BY SIZE OF HOLDINGS AND YEAR OF INSTALLATION

DISTRICT GUJRANWALA TEHSIL FEROZWALA

. Land Holdings of Farmers Installing Tubewells (Acres)

Year of Installation	No. of J.T. wells	No. of Part-ners	0-4.9		5.0-7.4		7.5-12.4		12.5-24.9		25.0-49.9		50.0-99.9		100.0-149.9		150 and above		Total No. of J.T. wells	Total No. of Part-ners
			No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners	No. of J.T. wells	No. of Part-ners		
Before 1945	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	1	2	0.20	1	-	-	0.80	1	-	-	-	-	-	-	-	-	-	-	1.00	2
1946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	2	6	-	-	1.00	3	-	-	1.00	3	-	-	-	-	-	-	-	-	2.00	6
1953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	1	2	-	-	-	-	-	-	1.00	2	-	-	-	-	-	-	-	-	1.00	2
1955	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	2	4	0.64	2	0.67	1	0.69	1	-	-	-	-	-	-	-	-	-	-	2.00	4
1957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	2	7	1.00	5	-	-	1.00	2	-	-	-	-	-	-	-	-	-	-	2.00	7
1959	6	16	-	-	1.99	6	1.57	3	0.44	1	0.74	4	0.60	1	-	-	0.86	1	6.00	16
1960	11	33	1.00	2	0.09	1	4.76	16	2.15	7	3.00	7	-	-	-	-	-	-	11.00	33
1961	25	74	2.07	6	2.14	9	4.21	15	9.83	28	5.60	12	1.15	2	-	-	-	-	25.00	74
1962	32	90	2.00	10	4.44	16	6.61	20	6.50	21	3.97	7	8.48	16	-	-	-	-	32.00	90
1963	46	121	3.00	8	7.73	24	12.41	35	9.08	23	10.40	24	3.38	7	-	-	-	-	46.00	121
1964	42	118	2.51	12	5.39	19	1.63	32	9.42	25	8.30	18	5.08	9	1.67	3	-	-	42.00	118
1965	45	119	2.08	8	2.52	7	8.12	30	20.17	52	8.28	16	2.33	4	1.50	2	-	-	45.00	119
1966	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:	215	588	14.50	56	25.97	86	49.80	155	59.59	162	40.29	88	20.82	39	3.17	5	0.86	1	215.00	588

Source: Size of Holdings Survey by PIDE and West Pakistan Department of Agriculture, Lahore Region, 1965/66.

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