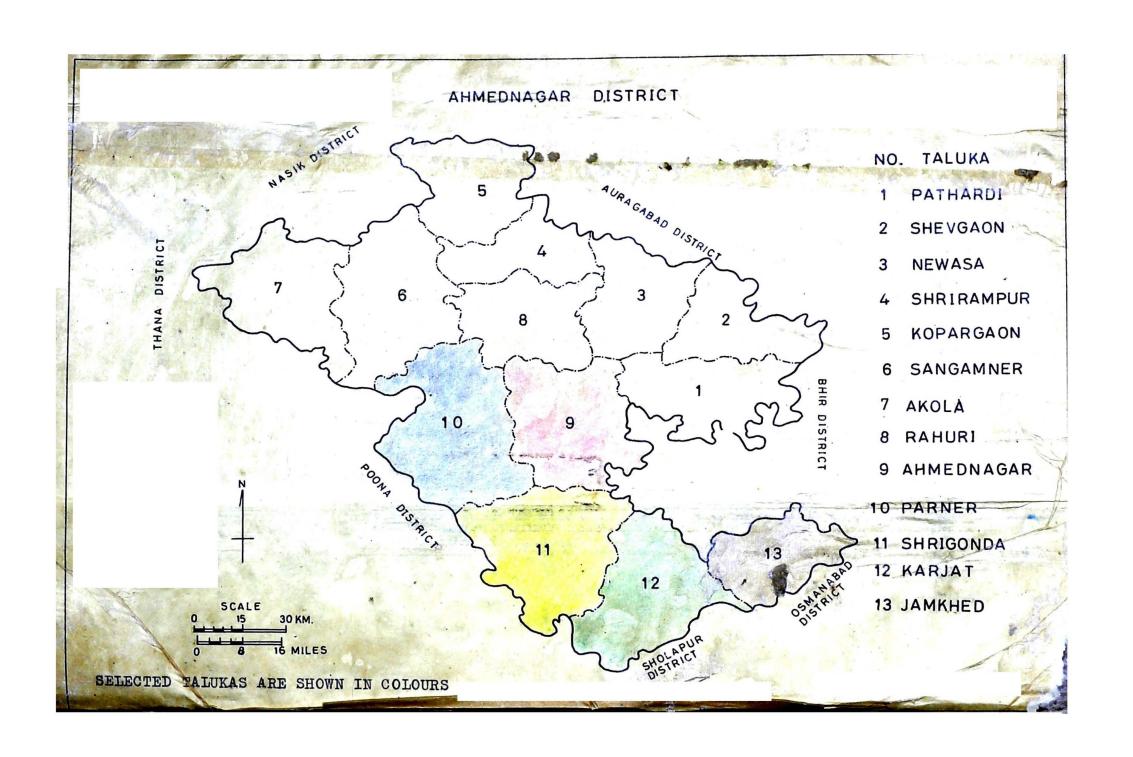
# UTILIZATION OF LONG-TERM FINANCE FOR NEW WELLS

D. B. KADAM M. Sc. Agr. (Agr. Rec.)



## UTILIZATION OF LONG-TERM FINANCE FOR NEW WELLS

in the famine liable areas of Ahmednagar District with special reference to loans advanced by the Ahmednagar District Co-operative Land Development Bank - A Survey

A thesis submitted to the University of Poona for the degree of Doctor of Philosophy in Agriculture

(Agricultural Economics)

D. B. Kadam
M. Sc. Agr. ( Agr. Eco. )

Gokhale Institute of Politics and Economics, Poona-4

March. 1968

#### PREFACE

Or other parts of India. The problem has, at present, acquired added significance in view of the paradoxical situation facing the country, under which, on the one hand, considerable long-term finance from Jand development banks is being made in the sinking of irrigational wells for securing the much-needed increase in agricultural production, but on the other hand, no adequate finance was issued by the land development banks for sinking of irrigational wells and also no proper use of the finance made available was made by the farmers. Public interest in the problem of non-full utilization of long-term finance has, unfortunately, not yet manifested itself in a systematic effort to study the various aspects of the utilization of long-term finance by the farmers.

In this work I have made a modest effort to fill this vacuum by conducting a study on the economic problems associated with the utilization of long-term finance issued by the Land Development Bank in the district of Ahmednagar, particularly in the famine-stricken talukas, in Maharashtra State. The study is based on the data collected by me from the owners of 277 selected wells.

The present study was conducted under the guidance of Professor V. M. Dandekar, Director, Gokhale Institute of Politics and Economics, Poona 4. I take this opportunity of recording my deep sense of gratitude for making valuable suggestions. To work under him was, indeed, a privilege.

It was because of a senior research fellowship awarded by the authorities of the Institute that this study could be completed in such a short time. With the fellowship came all the advantages, good library facilities, computing machines, ideal atmosphere and opportunities of discussing with many scholars. For all these, I am indebted to the authorities and the staff of the Institute.

It was also because of the long leave without pay granted by my Bank as a special case that the fellowship could be availed of and the project could be completed. For this, I am grateful to Professor D. R. Gadgil, Chairman, and Dr. W. C. Shrishrimal, Manager of my Bank.

I have to thank the officials of the Ahmednagar District Cooperative Land Development Bank, Ltd., for making available to me the
necessary records and for the help given at the time of conducting the
field-work. I must also record my thanks to the owners of the
selected wells for the hospitality extended to me during my stay in
their villages and for the patience shown in answering the numerous
questions I had to ask for collecting data.

Lastly, I thank Mr. N. G. Phacke for typing the thesis neatly and accurately.

Gokhale Institute of Politics and Economics, Poona 4.

March, 1968.

D. F. Kadam

#### CONTENTS

F.W.			
100			
		8	
List o	f Tables	***************************************	• (ix)
Chapter			Page
I	STATI	MENT OF THE PROBLEM	
*	1.1	Need for irrigation	1
	√ 1.2	Place of wells in Indian agriculture	3
	1.3	Need for long-term finance for wells	5
	1.4	Genesis of land development banks	7
	1.5	Progress of long-term finance for new wells	*
		in India	20
	1.6	Progress of long-term finance in Maharashtra	
		State	24
	1.7	Progress of long-term finance for new wells	1
	142	in Maharashtra State	37
	1.8	Object of present study	41
	1.9	Significance of present study	43
11	CENE	RAL FEATURES OF AHEEDNAGAR DISTRICT	
	2.1	Geographical features of Ahmednager District	44
	2.2	Physical features of Ahmednagar District	45
	2.3	Precarious character of rainfall in	
		Ahmednagar District	46
	2.4	Nature and effects of famine	51
	2.5	Famine Relief Works	52
	2.6	Necessity of wells in famine liable areas	53
	2.7	Progress of long-term finance for wells in	
		Ahmednagar District	55
ш	THE	SURVEY - ITS DESIGN AND METHODOLOGY	
	3.1	The need for a Survey	63

Chapter			Page
	3.2	Character of the Survey	63
	3.3	Selection of Talukas	64
	3.4	Selection of Villages	64
	3.5	The Schedule	67
	3.6	Response to the Schedule	71
	3.7	Time required for canvassing the Schedule	73
	3.8	Accounting period	74
	3.9	Structure of the Report	75
IV	LONG-	-TERM PINANCE FOR SAMPLE WELLS	
	4.1	Policy and Procedure	76
		A - Policy governing sanction of loan and	
		subsidy	76
		B - Procedure to be followed in grant of loans	
		and subsidy	82
	4.2	Difficulties of farmers in obtaining loans	89
	4.3	Period required for sanctioning loan	
		applications	103
	4.4	Period required for second instalment of loans	111
	4.5	Quantum of loan sanctioned for sample wells	115
	4.6	Deductions from loans	119
	4.7	Subsidy granted for wells by the Government	123
V	UTTI.	IZATION OF LONG-TERM FINANCE FOR SAMPLE WELLS	
THE	√5.1	Selection of sites for wells	126
	5.2	Period required for sinking wells	129
	5.3	Categorisation of sample wells	133
	2.3	Concepts	137
	5.4	Working Wells	
Ví	7•4		139
*(		<ol> <li>Diebursement of loan and costs of wells.</li> <li>Additional amount spent and its sources.</li> </ol>	140
		<ol><li>(ii) Additional amount spent and its sources.</li></ol>	142

Chapter				Page
		(111)	Cost of family labour and consump-	
			tion of loan against it	144
		(iv)	Misutilization of loan and its purposes	147
		(v)	Demand, recovery and overdue position	
			and sources of recovery	150
		(vi)	Requirements of additional funds for	
			further deepening and construction of	
			wells and acreage that can be brought	
			under irrigation	156
	5.5	Wells	that have gone dry or could not	
		strike	water	158
		(i)	Disbursement of loan and costs of wells.	160
		(ii)	Additional amount spent and its sources.	163
		(111)	Cost of family labour and consumption of	
			loan against it	166
		(iv)	Misutilisation of loan and its purposes.	169
		( <b>v</b> )	Demand, recovery and overdue position and	
			sources of recovery	171
		(vi)	Requirements of additional funds for	
			further deepening and construction of dry	
			wells and acreage that can be rebrought	
			under irrigation	175
	5.6	Wells	that remained incomplete due to	
		short	age of funds	177
		(i)	Disbursement of loan and costs of wells.	178
		(11)	Additional amount spent and its sources	181
		(iii)	Cost of family labour and consumption	
			of loan against it	183
		(iv)	Misutilization of loan and its purposes.	187
		(v)	Demand, recovery and overdue position	
			and sources of recovery	- 189

Chapter	17			Page
		(vi)	Requirements of additional funds for	
			further digging and for construction	
			of wells and funds required for pur-	
			chase of bullocks and for construc-	
	•		tion of irrigational channels and	
			acreage that can be brought under	
			irrigation	193
	5.7	Wells	that remained incomplete due to mis-	
		utili	zation of loan	196
		(1)	Disbursement of loan and costs of wells.	196
		(11)	Cost of family labour and consumption	
			of loan against it	198
		(111)	Misutilization of loan and its purposes.	200
		(iv)	Carlot Alexander Company of the Carlot Compa	
		W HE	and sources of recovery	205
	5.8	Wells	whose work was in progress	210
		(1)	Disbursement of loan and costs of wells.	210
		(11)	Additional amount spent and its sources.	212
		(111)	Cost of family labour and consumption	
			of loan against it	212
		(iv)	Misutilization of loan and its purposes.	214
		(v)	Demand, recovery and overdue position	
			and sources of recovery	216
	5.9	Compa	rative study of all categories of wells	217
		(i)	Disbursement of loan and costs of wells.	217
		(11)	Additional amount spent and its sources.	221
		(iii)	Cost of family labour and consumption	
			of loan against it	223
		(iv)	Misutilization of loan and its purposes.	226
		(v)	Demand, recovery and its purpases	
			overdue position and sources of recovery	228

Chapter			Pag
		(vi) Requirements of additional funds for	
pli f		further work of wells and additional	
		acreage that can be brought under	
		irrigation	235
VI	SENE.	FITS OF IRRIGATION	
	6.1	Gropping pattern prior to irrigation and	
		after irrigation	237
\	6.2	Gross farm receipts before and after irriga-	
		tion	240
	6.3	Gross additional farm receipts due to	
		irrigation	247
	6.4	Additional current farm expenses	249
	6.5	Net additional farm receipts	253
	6.6	Returns on investment	255
VII	ECON	OMIC APPRAISAL OF THE PROGRAMME	
	7.1	Appraisal of policy and procedure	258
	7.2	Adequacy of loans	260
	7.3	Need for close supervision over urbanization	
		of loans	267
	7.4	Rate of interest and period of repayment	269
,	7.5	Subsoil water surveys, trial borings and	
		technical advice	272
	7.6	Partial compensation of loan for failure of	
		wells	274
APPENDIC	ES		
1	(a)	Selection of villages from the Ahmednagar Taluka.	278
	(p)	Selection of villages from the Shrigonda Taluka.	280
	(e)	Selection of villages from the Parner Taluka	282
	(a)	Selection of villages from the Karjat Taluka	284
	(e)	Selection of villages from the Jamkhed Taluka	285

## (viii)

2	The Schedule	Page 286
Der Property	Glossary of Vernacular Terms	295
Contraction	SELECT BIBLIOGRAPHY	297

#### LIST OF TABLES

Table	No.	Page
1.1	Progress of States Cooperative Land Development Banks in respect of owned funds, fresh advances, recoveries, outstandings and overdues.	19
1.2	Purpose-wise classification of loans advanced by the States Cooperative Land Development Banks during 1963-64 to 1965-66	21
1.3	State-wise and year-wise total loans advanced and of which loans advanced for sinking of new wells and repairs to old wells during 1963-64 to 1965-66	23
1.4	Progress of the Maharashtra State Cooperative Land Development Bank in paid-up share capital, loan advanced, debentures floated, loans outstanding, total demand and recovery and net profit during 1960-61 to 1965-66	36
1.5	Purpose-wise classification of loans advanced by the Maharashtra State Cooperative Land Development Bank to Primary Cooperative Land Development Banks during 1960-61 to 1965-66	38
1.6	Primary Bank-wise total loans and of which loans for sinking of new wells in Maharashtra State for the year 1966-67	40
2.1	Variability of rainfall, 1865-1935 at Ahmednagar	47
2.2	Size of crop yields in Ahmednagar District, 1886-1938	49
2.3	Maximum, minimum and average rainfall in Ahmednagar District: Period 1931 to 1954	50
2.4	Progress of Ahmednagar District Cooperative Land Development Bank in membership, paid-up share capital, during loan advanced, and loans outstanding during 1960-61 to 1965-66	57
2.5	Year-wise and Purpose-wise loans advanced by the Ahmednagar District Cooperative Land Development Bank during 1960-61 to 1965-66	59

Table	No.	Page
2.6	Taluka-wise and year-wise loans advanced by the Ahmednagar District Cooperative Land Development Bank for new wells in Ahmednagar District during 1960-61 to 1965-66	61
3.1	Taluka-wise total number of wells, number of villages selected and the number of wells in such selected villages	66
3.2	Villages selected, number of wells from these villages and the amount of loan sanctioned and issued for them during 1960-61 to 1965-66	68
4.1	Period required for sanction of loans (i.e. the period between the date of application and the date of actual receipt of the first instalment of loans) in respect of sample wells	106
4.2	Period taken by Block Development Office to recommend loan applications and by the Bank to sanction them in respect of sample wells	108
4.3	Period required to obtain second instalment of loan in respect of sample wells (i.e. period between two instalments of loan	111
4.4	Year-wise sanction of leans for all sample wells during 1960-61 to 1965-66	115
4.5	Two-way classification of loans in respect of all sample wells	118
4.6	Purpose-wise deductions from the loans issued for sample wells	120
4.7	Number of sample wells and the amount of subsidy granted for them according to size of loan	124
5.1	Different ways of selecting the sites in respect of sample wells	128
5.2	Period required for the work of digging in respect of sample wells	131
5.3	Number of sample wells under each category according to size of loan-position during 1966-67	134

Table No.		Page
5.4	Expenditure on various items in respect of working wells according to size of loan	(41
5.5	Sources of raising additional amount in respect of working wells according to size of holding	143
5.6	Cost of family labour employed for well-work and amount of loan consumed against it in respect of working wells, according to loan-size	145
5.7	Purpose-wise misutilization of loan in respect of working wells, according to loan-size	149
5.8	Demand, recovery and overdue position in respect of working wells as at 30-6-1966, according to size of loan	151
5 <b>.9</b>	Demand, recovery and overdue position in respect of working wells, according to size of area brought under irrigation	153
5.10	Source-wise recovery of losn instalments in respect of working wells, according to size of holding	154
5.11	Additional funds required for further deepening and construction in respect of working wells, according to size of loan	157
5.12	Rainfall in the selected five talukas of Ahmednagar District during 1962 to 1965	159
5.13	Expenditure on various items in respect of wells that have gone dry or could not strike water, according to category of wells	162
5.14	Different sources of raising the additional amount in respect of wells that have gone dry or could not strike water, according to category of wells	164
5.15	Cost of family labour employed for the well-work and the amount of loan consumed against it in respect of wells that have gone dry or could not strike water, according to category of wells.	167
5.16	Purpose-wise misutilization of loan in respect of wells that have gone dry or could not strike water, according to category of wells	170
5.17	Demand, recovery and overdue position in respect of wells that have gone dry or could not strike water as at 30-6-1966, according to category of wells	172

Table No.		rage
5.18	Source-wise recovery of loan instalments in respect of wells that have gone dry or could not strike water, according to category of wells	174
5.19	Additional funds, required for further deepening and for construction in respect of dry wells, according to size of loan	176
5 <b>.2</b> 0	Expenditure on various items in respect of wells incomplete due to shortage of funds, according to size of loan	179
5,21	Different sources of raising the additional amount in respect of wells incomplete due to shortage of funds, according to size of holding	182
5,22	Cost of family labour and consumption of loan against it in respect of wells incomplete due to shortage of funds, according to size of loan	184
5.23	Purpose-wise misutilization of loan in respect of wells incomplete due to shortage of funds, according to size of loan	1 <b>8</b> 8
5.24	Demand, recovery and overdue position in respect of wells incomplete due to shortage of funds as at 30-6-1966, according to size of loan	190
5.25	Source-wise recovery of loan instalments in respect of wells incomplete due to shortage of funds, according to size of holding	192
5.26	Additional funds required for further digging and for construction in respect of wells incomplete due to shortage of funds, according to size of loan	194
5 <b>.27</b>	Expenditure on various items in respect of wells in- complete due to misutilization of loans, according to size of loan	197
5.28	Cost of family labour and consumption of loan against it in respect of wells incomplete due to misutilization of loan, according to size of loan	199
5.29	Purpose-wise misutilization of loan in respect of wells incomplete due to misutilization of loan, according to size of loan	202

### (miii)

Table No.		Page
5.30	Amounts misutilized according to percentage (of loan misutilized to net amount of loan received) groups of wells incomplete due to misutilization of loan, according to size of loan	204
5.31	Demand, recovery and overdue position in respect of wells incomplete due to misutilization of loan as at 30-6-1966, according to size of loan	206
5.32	Source-wise recovery of loan instalments in respect of wells incomplete due to misutilization of loan, according to size of holding	208
5.33	Item-wise expenditure in respect of wells whose work was in progress, according to size of loan	211
5.34	Cost of family labour and loan consumed against it in respect of wells whose work was in progress, according to size of loan	213
5.35	Purpose-wise misutilization of loan in respect of wells whose work was in progress, according to size of loan	215
5.36	Issue and disbursement of loans, costs of wells, additional amounts spent and loans utilized for other purposes in respect of all sample wells, according to category of wells	219
5.37	Sources of additional amount spent in respect of all sample wells according to category of wells	222
5.38	Cost of family labour and consumption of loan against it in respect of all sample wells, according to category of wells	224
5.39	Purpose-wise misutilization of losn in respect of all sample wells, according to category of wells	227
5.40	Demand, recovery and overdue position in respect of all sample wells, according to category of wells	229
5.41	Demand, recovery and overdue position according to number of instalments due for recovery in respect of all sample wells during 1961-62 to 1965-66	231
5.42	Source-wise recovery of loan instalments in respect of all sample wells, according to category of wells.	233

## (xiv)

Table No.		Page
5.43	Additional funds required for the work of further digging and construction of wells and for associated items in respect of all sample wells, according to category of wells	236
6.1	Cropping pattern before and after irrigation in respect of working wells	238
6.2	Gross farm receipts before and after irrigation in respect of working wells	243
6.3	Gross farm receipts per cropped acre before and after irrigation in respect of working wells	245
6.4	Values of aggregate gross production before and after irrigation, aggregate gross additional farm receipts, percent aggregate gross additional farm receipts and average gross additional farm receipts per net acre sown during 1964-65 to 1966-67, in respect of working wells	248
6.5	Additional current farm expenses (excluding family labour) arising out of irrigation in respect of working wells	250
6.6	Not additional farm receipts in 1964-65, 1965-66 and 1966-67 in respect of working wells	254
6.7	Net return on investment on working wells for 1964-65, 1965-66 and 1966-67	256
7.1	Average loan issued and average loan requirements per well, according to category of wells	262