# SURVEY OF SPECIAL EMPLOYMENT PROGRAMMES UNDER SFDA AND MFAL

REPORT FOR THE YEAR 1972-73

TALUKA : PATAN, DISTRICT : SATARA (MAHARASHTRA)

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# CHAPTER I

## THE PROBLEM AND THE PROGRAMME

#### Introduction

The broad objective of national planning in India is to maximize per capita national income. The strategy for achievement of this objective consists an increase in productivity on the one hand and employment on the other. These strategic measures are of crucial significance in agriculture which is the main source of employment and income for a very large section of the population.

The agricultural working force is composed of cultivators and agricultural labourars. Among these, small holders and agricultural labour occupy a key position. Over the years the number of small farmers has been on the increase and this increase could only be accounted for by increased fragmentation and the economic compulsion to cling to one's parcel of land. The small holders in India form 52 per cent of the total rural households but only 19 per cent of the cropped area is comprised in small holdings. This skewed distribution of land holdings has accentuated the problem of growing disparities among the various sections of agricultural community and has been engaging attention of the Government of India and the Planning Commission for quite sometime. All the agricultural developmental programmes launched in the country, in the past few years, have brought into sharper focus the socio-aconomic disparities between the various sections of the agricultural community. Wherever the new technology has been applied in substantial measure and had made an impact on agricultural production, the resulting benefits by way of increased returns have not been equally shared by different size groups farms with the result that the rich have grown richer and the poor poorer or at least comperatively poorer. The operation of all these developmental programmes have, althrough, been heavily in favour of large and to an extent middle farms as against the small holdings which constitute the major portion of the farming household.

The majority of small family farms have not taken up the

The majority of small family farms have not taken up the new technology, may be, because of situations of physical and/or economic uncertainty that results into self-provisioning production as the assential means of livelihood and wherefore, these small family farms are frequently found to prefer cultivating varieties which provide them with maximum sacurity with manimum expense. Invariably these happen to be established local varieties or its variants that had been in vogue for quite some time.

The handiceps faced by the small farmers differ from area to area; but on the whole, fragmentation of holdings, insecurity of tenure, lack of sufficient credit facilities, both for long term investment in land and short term credit for current expenses of agriculture, and difficulties in marketing and storage are the common difficulties standing in their way in securing the benefits of improved technology. Essentially the small farmer's resources do not properly fit into the requirements of the new technology. The result of this lack of fit is that the family operating a farm too small to produce substantial reserves, necessarily incurs debts for consumption purposes: adoption of new technology would involve deeper commitment than is involved with the well established local varieties and cultural practices. Already in debt, many a times for pre-harvest consumption and for occasional ritual obligation, the small farmer would face the necessity of doubling or trebling his indebtedness if he is to change over to the new

technology. If the small farmer is to undertake such a commitment that is certainly very much beyond his present means and capacities. Modern technology is capable of rendering even small farmers of 1-2 hectares economically viable and if the small farmers are to be brought into the mainstream of developmental efforts some specific programmes needed to be devised solely for the small farmers. The Government of India, therefore, accepted the recommendations of the All India kurel Credit keview Committee regarding the setting up of specific projects for the banefit of small but potentially viable farmers. This project aims at bringing the 'potentially viable small farmers' into the mainstream of economic development by making available to them the necessary inputs, including credit, to enable them to participate in the available technology and thereby improve the productivity of their parcel of land through intensive agriculture and diversifying their activities so as to secure a supplementary source of income from suitable subsidiary occupations.

The problems of the merginal farmers and agricultural labourers are little more aggravated than that of the small farmers. The scheme has been devised to assist the merginal farmers and landless agricultural labour, the weaker sections of the rural population, to enable them to benefit from the economic growth and development in the rural sector. The problem of the merginal farmer is essentially one of low per capita income that results in low savings, in fact almost no savings but increased indebtedness, low investment and hence low income. His land holding is very small, often less then an acre or so, resulting into inefficient use of other factors such as family labour, draught cattle etc. The credit facility aveilable being very limited, for went of sufficient security to offer, any investment in land or new improved inputs such as fertilizers, improved and high yielding veriety of seed and pesticides etc. is beyond his reach. The total resource base being very small he has essentially to depend on subsistence crops. Under the circumstances his farm cannot produce any mergin over the subsistence needs of his family, the end result being not only no investment in lend but a net disinvestment in terms of deterioration of land, implements etc. The main objective, under the present conditions of this class of farmers, is to assist the merginal farmers in making the maximum productive use of their small holdings by undertaking horticulture, animal keeping and dairying etc. The effort is to be directed towards generating larger incomes by channelising credit, improved inputs and improved practices into these activities.

A clearcut categorisation of marginal farmers and landless

A clearcut categorisation of marginal farmers and landless agricultural lebourers is almost impossible. The landholding of the marginal farmers being very small most of them work as agricultural labourers as do the landless labourers. Keeping in view that the prospects for creation of additional employment opportunities in agriculture are very limited, the marginal farmers and the landless labourers will also be assisted by providing greater employment opportunities through such rural works as may help in the maximum exploitation of the agricultural potential in the area.

In both the projects, one for the small farmers and the other for marginal farmers and agricultural labourers, availability of necessary credit facility along with the needed extension effort assumes importance. The basic feature of both the projects is that the small and marginal farmers and agricultural labourers would be enabled to have access to institutional credit facilities for undertaking various

economic activities. With this in view the agency will assist the participating farmers in getting the necessary credit, other inputs and other services required by them. The agency is not to directly finance any of these activities. It is proposed that the necessary finance for the verious development programmes contemplated in both these projects will come from the normal institutional sources. Co-operatives and, wherever possible, commercial banks and credit institutions are to be induced to finance the beneficiaries by providing a framework in which the lenders' risks are covered to some extent and the borrowers are guided to make productive use of credit. Essentially it is an experiment in supervised use of credit to be obtained from the existing agencies by providing a framework to these institutions to overcome their shyness in lending to' small and marginal farmers and then rendering the necessary extension effort and help the beneficiaries to use the credit effectively to raise themselves. economic activities a with this in view the agency will assist

The agency will also assist the institutions, which are concerned ith the distribution of inputs, marketing, processing and storage so that they build up the adequate infrastructure for improving the marketing and storage facilities in the project area, to benefit the participants. This is an essential ingradient in the programmes included in the project, especially in relation to animal husbandry and poultry activities. The project will also provide managerial assistance to co-operative credit and marketing societies at different levels to ensure proper supervision of credit and marketing operations. The timely and efficient implementation of the development programme in the project areas would, however, largely depend on the active involvement of the developmental machinery of the State Government at different levels and particularly the extension staff in the district. This is particularly of greater importance as the agency will not have a duplicate set of staff for implementing its programme. The extension and the departmental staff of the State and the Panchayat Samitis etc. working in the project areas would, in effect, be implementing the programme in these areas.

The present study was conducted in Patan taluka of Satara district where both small and marginal farmers and agricultural labourers schemes are in operation. Patan taluka is only a part of the working jurisdiction of the 'Small Farmers Development Agency' and 'Marginal Farmers and Agricultural Labourers Agency' Chiplun. This is a 'Composite Project' and the jurisdiction of the agency in respect of small farmers comprises five talukas, Chiplun, Lanja, Ratnagiri, Guhagar and Khed, of Ratnagiri district and three talukas, Patan, Jawali and Mahabaleshwar, of Satara district. The working area for the marginal farmers and agricultural labourers scheme comprises Chiplun taluka of hatnagiri district and Patan taluka of Satara district. The survey work in the selected villages was started in July-August 1972 and ended by December 1973. The reference period for the survey was May 1972 to end of June 1973 and no information berring that in respect of land holding, cropping pattern and income from various economic activities etc. was collected for the period 1971-72. The present report, therefore, does not give any data in respect of 'Rabi' 1971-72 but gives data only in respect of the agricultural year 1972-73.

Programme Outline

It is not possible, in view of limitations of finance and the known strategies, to tackle all the small and marginal farmers in a given area of the project. Each project was, therefore, expected to cover about 50,000 small farmers who are

potentially viable to become surplus producers with improved techniques, input support, irrigation etc. Each project for marginal farmers and agricultural labourers would cover about 20,000 families, of which roughly two-thirds would be from the catagories of marginal farmers and the rest agricultural labourers.

while no clearcut criterion in terms of land holding of a small farmer was laid down, it was generally accepted that the average size of holding for a potentially viable small farmer is expected to range from 2.5 to 5 acres in the case of irrigated or irrigable land and upto 7.5 acres in the case of dry areas. The schemes for marginal farmers and agricultural labourers was expected to cover farmers having holdings of not more than 2.5 acres and agricultural labourers having a homestead and earning 50 per cent or more of their income from agricultural wages.

As per the project report the SFDA, Chiplun, was expected to cover 49,000 small fermers (fermers calculated on the basis of 1961 Census), whose holdings ranged between 2.5 acres to 7.5 acres. Subsequently, with redefinition of the small fermer the total number of small fermers was put at 37,568. However, this was not the end of it all. Some non-official members of

<b>П. 11.</b> -	SFDA cov	e <b>rage</b>	MFAL co	verage
Teluka	Small A	erginal	Merginal	Agri- lebourers
i. Chiplun	6117	· -	32026	4908
2. Khed	5022	19546	-	ina <b>-</b> . ≥ <u>:</u>
Guhagar	2755	17333	-	-
. Lanja	3786	16302	• -	<b>.</b>
. Astnagiri	3682	28140		· -
. Patan	5603	-	32560	5345
, Jawali	9129	3333	•	<b>-</b> .
3. mahabaleshwar	1474	582		

the project committee expressed dissatisfaction at the exclusion of marginal farmers from four telukas of Ratnagiri district and two telukas of Satara district, from either of the projects specifically because in the case of SFDA these marginal farmers did not belong to the category of small farmers and in respect of MFAL the scheme was not applicable to these talukas. Subsequently, a representation was made to the Government of India through the State level Co-ordinating Committee to include these marginal farmers from six telukas either under SFDA or make the MFAL scheme applicable to all the six talukas along with the other two talukas under the scheme. The Government of India duly accepted the suggestion to include the marginal farmers from these six talukas under SFDA with the proviso that the marginal farmers from these talukas would be entitled to benefits, by way of subsidy etc., as if they were small farmers and not marginal farmers. This concession, by the Government of India, swelled the total farmer population under SFDA coverage to 122804 comprising 37568 small farmers from eight talukas and 85236 marginal farmers from six talukas not included under the MFAL project. The detailed distribution of identified small and marginal farmers under 3FDA and MFAL coverage is given above.

In respect of marginal farmers all those below 2.5 acres of holding (this is as per project report) were to be included and according to 1961 Census their number was put at 24,300. As in the case of small farmers the marginal farmers, too, were redefined and their number too swelled to 64,586 within the operative area of the scheme. To this were added the identified agricultural labourers (10253) so that the total number of marginal farmers and agricultural labourers entitled to receive benefits under MFAL happened to be 74839.

Agriculture is the crux of the problem. Not only is agriculture the basic occupation of the preponderent majority of the would-be beneficiaries, who have at least a strip of land, but also the most important avenue of employment for labour. The central problem, both in respect of small and marginal farmers, is one of making the best use of land of which there is too little and of labour of which there is too much. The proposed programmes are expected to take an integrated view of the economic problems of the small and marginal farmers. It will try to ensure that they are able to get the maximum out of their holdings by developing land and securing improved inputs of agriculture. If the would-be beneficiaries are to ascape the poverty trap, they need an initial breakthrough, to get out of the salf-parpetuating vicious circle of low income-low investment-low income. Both on the farm and off the farm, the beneficiaries' position needs to be strengthened by deliberate, planned action through appropriate institution.

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The problem of too much labour happens to be of major concern in respect of marginal farmers than that of small farmers and to that extent the programmes for these two categories will have to lay stress on different aspects. While invastment in land by way of land levelling and development, terracing, minor irrigation through wells etc. can be common for both the categories, special efforts for off farm employment for marginal farmers are necessary in view of their meagre land base. In respect of small farmers 'potential viability' has been assumed and the main concern in respect of these will be inducing them to undertake the necessary investment in land development, irrigation facilities etc. The major stress, therefore, will have to be to intensify the agricultural base and thereby increase amployment on the farm for the family labour. Supplementary sources of income, therefore, under the assumption of 'potential viability' will be expected to assume a comparatively minor role. 'Potential Viability' is not expected of the marginel farmer, in fact this category of farmers will continue to be non-viable for quite some time, though it is no doubt necessary to improve both the 'resource endowment' and 'resource productivity' of their holdings. Lend development, irrigation facility on a joint or co-operative besis etc. do have their role to play but to improve the employment and income potential of these marginel holdings, it will be necessary to develop supplementery agricultural enterprises like poultry and animal husbandry. The marginal farmer cannot profitably use the family labour and off farm employment programmes need to be developed by organizing rural works to take care of the labour during the off season. In the context of the limit imposed on intensive agriculture by the irrigation prospects in the area on the other, it needs to be recognized that employment avenues will be inadequate. Under

The programmes to be implemented under small and marginal farmers schemes are more or less the same with a different stress on individual items. Broadly the project proposes to cover the following programmes:

- (1) The land development programmes such as contourbunding, terracing, land-development-cum-horticulture, levelling and other small items of land development.
- (2) Minor irrigation through wells etc.
- (3) Provision of bullocks and improved implements.
- (4) Intensive cultivation of food crops and cash crops.
- (5) Horticulture development.
- (6) Dairy development.
- (7) Poultry development.
- (8) Custom services and godown facilities.
- (9) Strengthening of co-operative institutions.

These are the major items in which investment is to be directed and to the extent the farmers can be persuaded to invest in these it will be successful. The more difficult problem of the small farmer agriculture is that of communication; of persuading the farmers to adopt technically and economically more efficient methods of farming. This really calls for an individual approach if it is to yield the best results. However desirable such an individual approach be, in a project of such proportions it is just not possible. The individual approach, no doubt, will be much easy to manage but that would amount to spending an undue proportion of resources helping the organises we and well-to-do amongst these farmers who are willing and able to accept advice and leave out the larger number of small and marginal farmers outside the purview of the programme and will not help to solve their problems.

# Credit Requirement and Financial Outlay

Both the programmes (SFDA and MFAL) are financed by the Central Government. The credit requirements are to be met through the existing financial institutions and the agency's role in securing the necessary credit is that of the co-ordinator. The agency lends its helping hand to the farmer through the subsidies that are expected to go a long way in lessening the burden of repayment of loan by the farmer. The subsidies, at least in respect of small farmers who by the very nature of assumption are potentially viable, are expected to be both an efficiency and equity measure. The merginal farmers are likely to remain non-viable for quite some time and the subsidies would be largely in the nature of equity measure only and may require many more such doses if ever it is going to turn up into an efficiency measure too. Technology is such a means to achieve such an end. The new HYV technology is neutral to scale, and certain technologies have indivisibilities, which means that land holding size can affect the sort of technology which can be utilized. Size also affects the types of crops and farm activities that can be pursued and in certain cases steple crops on small holdings may never be profitable enough to support the family whatever productivity gains are realized. This means off farm employment or diversification

[The financial outlay of the agency, in fact, arises]

/ The financial outlay of the agency, in fact, arises out of its role as a co-ordinator.

into higher yielding cash crops atc. may be necessary on very small holdings. With the well entrenched habit of self-provisioning production how far this can be made operative in the near future will be the real problem. Until such time the subsidies to marginal farmers will have to be in the nature of equity measure alone.

Credit to farmers is an important instrument in improving farm productivity. This applies especially to small holders, whose lack of capital seems to be a crucial factor limiting farm development. Meny farmers of small sized holding are rought in a vicious circle from which it is difficult to escape without outside financial assistance. Small farms on the subsistence level are for the most part unable to accumulate capital. In addition credit facilities for small farmers are very poor because among other reasons, they are unable to offer adequate security. Credit needs to be extended on the besis of the potential for sustaining and increasing economic well being. Security for the losn is insisted upon in order to cover the risk and in the process very little attention is given to the possibilities of the success of the loan. There is some contradiction between the goal of minimizing the risk associated with the loan and maximizing the success of the laon. The less the farmer needs the loan the more secure it is. Invariably the cooperatives have a bias for loans with small risk. For most of the small farmers repayment has to come from the additional proceeds generated by the loan and in such cases certain amount of risk is always involved for the farmer and the credit agency. This is really the price that agency has to pay for successful loan scheme and that is the only meaning of the 'risk fund' to be paid to financing agencies on the total credit lifted by the beneficiary farmers. This, again, emphasises that the economic effects of loans to farmers can be enhanced substantially if these are accompanied by agricultural extension work.

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The total funds made available by the Central Government, for the four-year period 1970-74, are around Rs. 1.55 crores and Rs. 1.00 crores for Small Farmers Development Agency and Marginal Farmers and Agricultural Labourers respectively. The details of credit requirement and proposed utilization of funds in respect of SFDA and MFAL are given in Tables 1 and 2 respectively. The major items for utilization of funds are dairy, intensive cultivation, poultry and minor irrigation in respect of small farmers and rural works, minor irrigation and animal husbendry (including dairy) in respect of merginal farmers and agricultural labourers. The expected investment, by utilization of these funds, in respect of small farmers is much larger than in respect of merginal farmers. Taking into consideration the higher rate of subsidy prescribed for merginal farmers than that for small farmers, the prescribed rates of subsidy being 33 1/3 per cent for merginal farmers and 25 per cent for small farmers, the expected investment would be quite small in case of marginal farmers are to be made to local bodies the benefits accruing indirectly to all the beneficiaries. To that extent utilization of these funds especially under rural works etc. are largely dependent upon the resourcefulness of the Panchayet Samitis in respective talukas. The proposal made a provision for interest retes subsidies but this was not accepted by the Secretaries Committee in the meeting held on 14th September 1970. Similarly a proposal for 10 per cant mortality reserves, though not provided for in proposed utilization of funds, was not accepted on account of the difficulty of its implementation in a practicable menner. In order to enable the marginal farmers and agricultural labourers who are non-members, to become the members of the

Table 1 : Credit Requirements of the Programme and Proposed Utilization of SFDA Funds

		Smel	1 Fermers			(ks. in L	ecs)	
	Cr	edit Require	ment		harge to	SFDA Funds		•
Item	Long term	Medium and short term	Total	Risk Fund on Credit		Misc. Grants and Reserves	Total (Cols.	
(1)	(2)	(3)	2+3) (4)	(5)	(6)	(7)	5+6+7) (8)	
. Lend Development	13.12		13.12	0.39	3.37	•	3.76	
. Minor Irrigation	313.00	<b>-</b> %.	313.00	9.39	10.00	-	19.39	
<ul> <li>Bullocks and Improved Implements</li> </ul>	-	22.00	22.00	1.98	<u> </u>	<b>-</b>	1.98	,
. Intensive Cultivation	, i <del>-</del>	299.50	299.50	26.95	•	-	26.95	
. horticulture Interest Subvention	225.00	· ·	225.00	6.75	. · ·	7.50	14.25	
6. Dairy	- 1 - 1	67.50	67.50	6.07	17.50	6.00	29.57	
7. Poultry	32.00	107.50	139.50	10.63	2.50	_	13.13	
3. Custom Services	-	<b>-</b> .		-	7.50	_	7.50	
Grant for Interest Subsidies	-	-	-	-	• • • •	10.00	10.00	
0. Steff Subsidies		-		-	· · ·	8.00	8.00	
l. Administration	- '	-	_	-	-	5.50	5.50	
2. Uncommitted Reserves	-	•	-	· <b>-</b>	•	15.00	15.00	
Total	583.12	496.50	1079.62	62.16	40.87	52.00	155.03	

Table 2 : Cradit acquirements of the Programme and Proposed Utilization of HFAL Funds

						(Rs. i	n Lacs)	
	C	redit Kequir	ements	Che	arge to MI	FAL Funds		
Item	Long term	Medium and short term	Total	Risk fund on credit		Misc. grants and Reserves	(Cols,	
(1)	(2)	(3)	2+3) ' (4)'	(5)	(6)	(7)	5+6+7) (8)	
1. Land Development	3.00	_	3.00	0.09	3.00		3.09	
<ol> <li>Minor Irrigation</li> <li>Intensive Cultivation</li> </ol>	37•49 -	- 27.00	37.49 27.00	1.12 2.97	12.51 3.00	2.42	16.05	
4. Horticulture 5. Animal Husbandry	13.50	- 1	13.50	0.40	1.50		5.97 1.90	
6. Poultry	-	26.20 4.95	26.20 ± 4.95	1.12 0.15	12.30 2.25	1.87	15.29 2.40	9
<ol> <li>7. kural Works</li> <li>8. Village Industries and</li> </ol>	-		<b>-</b>	<b>-</b>	-	25.00	25.00	
Rurel Arts and Crafts  9. Grants for interest subsidies	-	-		••• ·		7.00	7:00	
10. Staff Subsidies 11. Administration	-	-	_ / <del>_</del> .		<b>-</b>	10.00 2.00	2.00	
12. Uncommitted neserves		<u>-</u>	<b>-</b> ,	= 4, =,	-	1.00 10.00	1.00 10.00	
Total	53.99	58.15	112,14	5.85	34.56	59,29	99.70	

primary co-operative credit society in the project area, the sum of as. 5.00 lacs was set apart to be given as interest free loans to the societies on behalf of the non-members at the rate of one share each. The amount is to be given to the society concerned on behalf of non-members. It should be collected by the primary society from the farmers concerned and would be repaid to the agency in the course of three years.

The proposal for interest subvention under Horticulture in respect of small farmers was also not approved. The interest free holiday proposed for horticultural activity intended to provide relief to cultivators, in the initial period, till the trees come to a bearing stage. It was suggested that matter needs to be examined afresh and unless detailed scheme in this regard is worked out the Union Ministry of Agriculture will not be able to consider the provision of any assistance by the Agency under the scheme. It was further suggested that an economically feasible scheme may be worked out with the assistance of the Agricultural Refinance Corporation or the Agricultural Finance Corporation, for compact areas. These schemes could provide for some concessions for the loanees during the early years of the scheme.

The extent of credit facility required to put through this programme at the end of the four year period is given below.

		(Rs. in lacs)
	SFDA	MFAL
Long term Medium + short term	583.12 496.50	53.99 58.15
Total	1079.62	112.14

Details of credit requirement for various items are given in Tables 1 and 2. The estimated credit requirement is exclusive of the amount of subsidy to be paid for various programmes. Adding the various subsidies the total credit requirement of the beneficiary farmers will be of the order of ks.1120.49 lacs and ks. 146.70 lacs for small and marginal farmers respectively.

Under the initial coverage of farmers (37568 small farmers and 64586 marginal farmers under SFDA and MFAL respectively) and considering the area of operation (8 talukas under SFDA and two talukas under MFAL) the benefits that would have accrued to small farmers would have been much larger than those accruing to marginal farmers. However, with the swollen number of small and marginal farmers included in SFDA, as a result of the concession made by the Government of India, the scales might have shifted in favour of marginal farmers in Chiplum and Patan talukas where the addition of agricultural labourers is of a lower order and would not sariously affect the beneficiaries much. To that extent funds made available are much in favour of marginal farmers (MFAL) then small farmers (SFDA). This necessarily assumes that the proposed programme is successfully carried out during the stipulated period.

#### CHAPTER II

### IDENTIFICATION OF BENEFICIARIES

The beneficieries or the participants to be identified were both smell and marginal farmers as the project was a 'Composite Project'. Identifying small farmers was of greater importance as the floor area of land holding of a small farmer would set the limit to the ceiling of the marginal farmer's land holding for inclusion under the marginal farmers' scheme. It is really difficult to devise a satisfactory definition to distinguish small farmers from large and middle farmers. No single identifying criterion will be useful for distinguishing small farmers from large and middle farmers. Some broad observations can be made regarding a small farmer and such observation may be stated as, 'small size of operations; heavy reliance on human labour provided by the farmer and members of the family, and assisted in some systems by animal power; use of traditional (backward) techniques and strongly conservative attitude towards innovation; and significent concentration on production for home consumption' and so on. However, such an observation cannot be used as a workable proposition for obvious reasons. An observation of this nature will cover almost all the farming households, especially in view of the well entrenched habit of self-provisioning production leading to maximum security for the farmer household, leaving in balance an insignificently small number of farming households as large and/or medium farmers. Such an observation, no doubt, describes the economic activity of the majority of the farming households very neatly and still would feil to pinpoint as to which of the farmers would really belong to the category of small farmers.

# Potential Visbility

The more important distinguishing feature, beside the land holding, proposedby the schemes and the project reports was the 'Potential Viability' of the small farmers. While the small farmers were potentially viable, the marginal farmers were not only non-viable but were expected to remain non-viable, at least, for quite some period in the future.

The concept of visbility relates to a circumstance where the given economic unit is capable of sustaining itself. The potentially visble small farmer, therefore, will be such a farmer who in a given period of time will become economically visble as a result of various aids given him in order to make him and his family a visble aconomic unit so that he does not have to depend anymore on the subsidies and aids to keep his unit a going concern. The obvious interpretation of the economic visbility will, therefore, be that the small farmer, as a result of subsidies and aids given him, moves ahead from previous position of mere hetconservation to/consolidation. Deing brought about by broadening the base of production but without increasing the extent of physical area in his commend. Expressed in other words this means that the objective is to enable the small farmer to get adequate income from his farm and off-farm business to pay for what may be called 'model living' and service the credit for current operations and investment. The visbility criterion, therefore, needs to be defined in terms of income and in defining the small farmer the income criterion has to be translated in terms of land holding.

# Guidelines for Identification of Beneficiaries

while modern technology is capable of rendering even small farmers of 1-2 hectares economically viable no clearcut criterion in terms of land holding of a small farmer for all the projects This change over from mere conservation to consolidation

can be laid down and was not laid down. However, it was generally accepted that the average size of land holding for a potentially viable small farmer is expected to range from 2.5 to 5 acres in case of irrigated or irrigable land and upto 7.5 acres in the case of dry areas. Workshop on small farmers and agricultural labourers, too, did not provide any definition of a small farmer. It pointed out that no uniform definition can be laid down in terms of size of holding for this category. This size may vary from area to area according to productivity and economics of the land. It has, therefore, been left to each project implementation agency to determine the class of farmers which can be eligible for assistance in the project area. At the same time the workshop on small farmers and agricultural labourers had stated the general view that the small farmers being expected to be 'potentially viable', the viability has to be defined in terms of income which can further be related to land holding and subsidiary occupations. This means that the viability criterion, therefore, needs to be translated, and not neglected or connived at, in terms of land holding and the subsidiary occupations will have to play a comperatively minor role by way of a supporting measure to arrive at the income level which is considered to make the small farmer family a viable unit. The workshop further states that unless such a definition is made, there will be difficulty at the operational level.

All this points towards the need for proper identification of eligible participants which is of fundamental importance to the scheme. The All India Rural Credit keview Committee, too, stressed the need for proper identification of small farmers by pointing out the possible danger, which will have to be guarded against, of large farmers making an attempt to present themselves as small farmers with a view of securing the benefits available from the programmes. The guidelines issued and the procedures adopted for identification of small farmers, therefore, need to be considered in terms of the broad framework stated above.

The secretaries committee by its letter No.14-14/71
Agri.Cr. deted 15-10-1971 issued the guidelines for the selection of eligible participants. (Copy of the relevant parts of the letter is appended at the end of the chapter.) The letter did not communicate the size of holdings which had already been decided in the committee meeting of 7th August 1970. Generally the holdings between 2.5 to 7.5 acres would be covered under the small farmers programmes and this was duly communicated to respective agencies. The parameters having been already laid down, the letter only clarified that the criteria have not been laid down for irrigated and unirrigated land or for tombination of both. It further stated that the rough formula for the conversion of wet and dry land to arrive at an effective size of holding may be based on an estimation of likely income and added that the respective ceiling laws may be looked up to facilitate easy identification of participants. The guidelines do not make it at all clear whether the earlier stated area (2.5 to 7.5 acres) would set a ceiling in terms of irrigated lend or dry land. This vagueness on the part of the Secretaries Committee could be put to improper use, by setting the ceiling at 7.5 acres of perennially irrigated land, for the purpose of identification. The committee refers to income indirectly and only for the limited purpose of arriving at the conversion ratio of wet and dry lands and completely avoids the concept of 'potential viability' of a small farmer lest it may have to stipulate the level of income at which a small farmer family, say a family of 3 adults and 2 non-adults a total of 5 members, is expected to become viables. That such a view of the Secretaries Committee's guidelines is not wholly incompatible

can be seen from an extract of the D.O. letter No. 20/2-72 Agri. Credit dated 17-7-1972 from Joint Secretary, Government of India, Ministry of Agriculture, to Agri. Production Commissioner, Government of Madhya Pradesh, Bhopal. The extract is given below.

"It has been decided that considering the type of field staff undertaking the work of identification it would not be advisable at this stage to introduce too many refinements in the identification of participants. It is, therefore, not necessary for the project to go in for very sophisticated calculations of income in listing out eligible participants except to the extent of eliminating bigger farmers and those with substantial off farm incomes."

While this particular letter was directed to Agri. Production Commissioner, Bhopal, there is no reason to believe that this was not the general outlook of the Ministry of Agriculture, Government of India, in regard to all the small farmers' projects. According to this letter the effort was to be directed to the exclusion of large farmers and those with substantial off farm incomes. Those with substantial off-farm income could be comparatively easily identified and excluded, but the same cannot be said in respect of the large farmers and to that extent even this letter left the guidelines open for being put to improper use. The parameters laid down (2.5 to 7.5 acres) could be put to misuse for want of any income criteria especially when the land even in a given project area is likely to differ quite in its productivity. The avoidance of large farmers from deriving benefits from the programmes, therefore, could not be materialised. Thus, the small farmers were to be identified more or less solely on the basis of the land holding.

The identification of small farmers based on land holding, however, was not free from blemish for want of any clear guidelines as to whether the proposed land holding meant 'Owned holding', 'Cultivated holding' or 'Operated holding'. It seems from the Ministry's letter No. 117-26/73-Agri.Cr. dated 13 April 1973 that the Agencies were expected to adopt 'operational holding' rather than recorded rights in land records for identifying participants. This letter refers to the Ministry's letter No. 14-14/71 Agri.Cr., dated 15th October 1971, i.e. the guidelines laid down by the Secretaries Committee which incidentally does not clearly state anything except land holding or at the most might be indicating the cultivated holding. Even if it is to be agreed that the guidelines laid down by the Secretarics Committee meant operational holding, it is necessary to define the operational holding in as clear terms as possible. That operational holding was open to various interpretations can be seen from the Agenda papers, relating to Farm Management Studies, of July 1967. Under concepts and definition, the operational holding had been defined by various centres as below.

"This includes area actually cultivated (including current fallows) by the farmer and his family irrespective of title or location."

"Some studies specifically mentioned that this also includes the area under trees and wells if these are in the cultivated fields."

"In certain cases, the area under cattle sheds and form buildings, even if these are situated on the cultivators fields are not included."

"Owned area + Leased in - Leased out."

"Net sown area + Current fallows."

with so many ways in which operational holding has been defined by various centres, it was at least necessary to have indicated as to which of the above definitions was acceptable to the ministry and hence was to be followed by the Agencies, or if the ministry was not agreeable to any of the above definitions it could indicate its own definition for the Agencies to follow.

The above-mentioned letter No.117-26/73 dated 13 April 1973 once again refers to the viability but in quite a different vein. The letter states that the schemes of SFDA and MFAL ward meant to cater to the fon-viable' agriculturists. So far as the marginal farmers are concerned there is no reson to think that they were not only non-viable as of now but were expected to remain non-viable for quite some period in the future. However, it is very striking to know that even the small farmers, too, were supposed to be non-viable. In fact as the initial programmes indicated the important distinguishing feature of the small farmers was their 'potential viability' and not non-viability. That the Ministry meant non-viable as never to be viable, rather than not-viable as at present but potentially viable, can be seen when the letter states that it is necessary to see that the benefits of the programmes reach the non-viable small and marginal farmers who require special assistance from the agencies. This would mean that the subsidies and aids given to small farmers were to be an equity measure only as in the case of marginal farmers and not an afficiency and equity measure. The potential viability of the small farmer seems to have been discarded and under the circumstances one fails to understand why there need be two different programmes for small and marginal farmers when a single programme could have served the nurpose what wer that be.

So far as the exclusion of small and marginal farmers with substantial off-farm incomes was concerned the letter did not suggest any criteria or limit to income from such sources, but marely suggested that they need to be excluded from getting benefits from the programmes. However, as a result of queries made in regard to the limits of incomes from such sources like trade and commerce etc., the Ministry by its letter No. 17-26/73 agri. Gradit dated 7th August 1973 suggested certain criteria (the letter is appended at the end of the chapter) for the purpose of exclusion of such farmers. Considering the condition (a) stated in the letter, it is open to interpretation that by and large all farmers with even a little more income from non-agricultural occupation were to be excluded from the purview of the SFDA/MFAL even if these can be identified on the basis of land holding. The identification, therefore, will be left, wholly, to the discretion of the Agency and specifically because no income criterion has been prescribed either in respect of income from agriculture or total income from all the sources. The end result could be that the professed purpose of helping the poorer sections of the farming households could get vitiated in the process of identification. That such a case has not come to notice, need not rule out the possibility of such an occurrence.

The second condition (b) stipulating a steady income of Rs.200 and above per month will be largely applicable to salaried services. If this condition is to be accepted as it is, does it mean that the Ministry would like to put a limit of Rs.2400 or near-about as the limit to income per annum for inclusion of farmers in the schemes.

The third condition (c) is extremely vague. That pure rentiers should be excluded from the purview of the programmes is clear enough since mere land ownership was not to be the

criterion for identification of participants. What is not clear is in respect of the farmers engaged in cultivation only partly, i.e. those who have taken to other occupations simultaneously with farming. The condition if interpreted the way it had been stated means that all those engaged in non-agricultural occupations simultaneously with farming and irrespective of income from such non-agricultural occupation being larger or smaller than income from agricultural occupation being larger or smaller than income from agriculture be excluded from the programmes. This instantly negatives the condition laid down in (a) of the letter which states that only such identified farmers be excluded who have income from non-agricultural sources exceeding the income from land.

The three conditions laid down in this letter, No. 17-26/73 Agri. Credit dated 7th August 1973, looked at a little more intently happen to be a little inconsistent with each other unless each is considered in isolation. All this has arisen as a result of shying away from setting an income criterion that would make the small farmer family a viable economic unit.

#### Identification of Beneficiaries, Retnegiri-Satara

To repeat, identifying small farmers was of greater importance as the floor area of land holding of a small farmer would automatically set the limit to ceiling of the marginal farmer's land nolding for inclusion under the marginal farmers' programme. Previous section dealt with the guidelines proposed by the Ministry as the process of identification by various projects got underway. It also considered, how in the process of prescribing various criteria, the distinguishing feature of 'potential viability' of the small farmer had been diluted, watered down and ultimately almost discarded, so that as the end result of it all it was only the size of land holding that became the distinguishing feature between small and marginal farmers.

The project report of Natnagiri-Satara SFDA had initially proposed the acreage limits ranging between 2.5 acres to 7.5 acres for a small farmer. Farmers with a holding below 2.5 acres, as per this definition, were to be considered marginal farmers for the purpose of NFAL project. However, this was found unsatisfactory as it equated all categories of land and would not take note of availability of irrigation facility, productivity of particular class of land etc. Subsequently, the agency proposed a fresh definition of a small farmer by taking into consideration various categories of land. This redefinition of a small farmer automatically provides a fresh definition of a marginal farmer, the floor area prescribed for a small farmer setting the limit to the cailing of the marginal farmer's land holding and for each category of land. The agency differentiated various categories of land as (i) irrigated rice land, (ii) rain-fed paddy land, (iii) warkes land, (iv) perennially irrigated land, (v) seasonally irrigated land and (vi) unirrigated or dry land for deciding the eligibility of the land holder for inclusion under SFDA or NFAL programmes. The suggested workable relationship of different categories of land as equivalent to each other is given below.

(1)	Irrigated Rice Land Rain-fed Paddy Land Perennially Irrigated Land Seasonally Irrigated Land	2.5 to	7.5 ac	res
(2)	Rain-fed Paddy Land	3.0 to	9.0 acı	res
(3)	Perennially Irrigated Land	2.5 to	7.5 acı	res
(4)	Seasonally Irrigated Land	5.0 to	15.0 acr	res
(5)	Unirrigated or Dry Land	7.5 to	22.5 801	res
(6)	Warkas Land	10-0 to	30-0 acr	ree

This was provisionally accepted pending approval by the State Level Project Co-ordination Committee. The State Level Project Co-ordination Committee suggested the same acreage intervals for various categories of land and this revised definition was finally accepted by the Agency vide its Resolution 2A. As suggested in the previous section the Agency resolution set the ceiling for a small farmer at 7.5 acres of perennially irrigated land and this was quite in order so far as the Secretaries Committee's letter No. 14-14/71 Agri.Cr. dated 15-10-1971 goes. The said letter almost left it to the total discretion of the Agency to decide upon the land holding for the ourpose of identification and may be with full understanding that the modern technology is capable of rendering even small farmers of 1-2 hectares i.e. 2.5 to 5 acres economically viable. The above definition of the small farmer was in terms of land holding alone and viability was not defined in terms of income at all. May be the Agency's and the Ministry's understanding was that the small farmer with 7.5 acres of perennially irrigated land was only 'potentially viable' and not viable as yet.

perennially irrigated land was only 'potentially viable' and not viable as yet.

The preparation of 'Master Lists' of small and marginal farmers was to be proceeded with taking into consideration the above given definition approved by the State Level Project Coordination Committee. Rowever, vide its Resolution 28, the Agency proposed to prapere a note with a view to justify the relationship of various categories of land as equivalents by considering productivity etc. of all the categories of land it specified. For this purpose of establishing an economic relationship between various categories of land a study group as requested to look into the matter and report its findings after undertaking necessary survey of various categories of land, the crops normally grown on such lands, cost of cultivation and net profits from cultivation etc. The terms of the study were not to report the relationship between various categories of land that the study group arrives at as a result of the survey etc., but to confirm the relationship, proposed by wey of equivalents for various categories of land, with some factual reasoning based on local information. The study group's report was presented to the llth meeting of the Agency held on 18th December 1971 at Chiplun, as additional agends item No. 3. (The study group's report, rether a note, is attached at the end of the chapter.) The proceedings of the llth meeting did not take any note of the study group's report, may be, on account of the report not having been discussed or brease the study group was asked to reconsider its findings before the matter was discussed in the Agency meeting. Subsequently, the study group seems to have produced a second report, possibly from the same data used for the first report presented to the 11th meeting, which was submitted to the 14th Agency meeting held on 14th August 1972, at 3atara, as agenda item No. 10. (The study group's second report, though this has not been specifically mentioned as second report in the proceedings. The study group

This finding was arrived at in the second report and not in the first report and some valid and worthwhile explanation is due and necessary from the study group and the Agency for the discrepancy in the per acre net income from some categories of land especially perennially irrigated land and unirrigated land where the difference in income per acre from these two categories of land in the first and the second report is quite substantial. The Agency while accepting the study group's report in the 14th meeting of 14th August 1972, seems to have completely forgotten that the same study group had earlier submitted a report in the 11th meeting of 18th December 1971 and that the results submitted were drastically different. May be, the Agency was not aware of the discrepancy in the two reports, at least that was the impression carried after this was brought to the notice of the Agency officials.

To repeat the Agency never defined visibility of a small farmer in terms of income from land and subsidiary occupations. In doing so the Agency had followed the guideline (1), laid down in letter No. 14-14/71 Agri.Cr. dated 15-10-1971, to the hilt. The letter had suggested the estimation of likely income for arriving at a rough formula for the conversion of wet and dry land and the Agency put it to same use but without considering the discrepancy in the first and the second report. A little more thought would have shown that what the Agency did not try to define directly was, however, in a way, stipulated by the study group's report though only indirectly. To say that the purpose of the study group's report was limited to arrive at a relationship between wet and dry land only and therefore, snything more that follows as a result of such a report need not be given any thought leads us nowhere. On the contrary if the income per acre is valid enough for establishing a relationship between various categories of land then there is no reason why the same per acre income cannot be valid for the purpose of arriving at the total income expected, from those vary categories of land, in respect of the ceiling on land holding as decided under the definition of a small farmer. This is not to emphasize income as a criterion but only to point out that what has not been suggested as a criterion actually can be put to the same use as a result of the Agency's own report.

The study group's main finding was the confirmation of

The study group's main finding was the confirmation of the relationship 1:2:3 between perennially irrigated land, seasonally irrigated land and unirrigated land. This confirmation of the relationship was arrived at on the basis of per acre not income from each category of land. The difficulty with the study group at two different meetings do not arrive at the same results in terms of maximum income permissible for a farmer for inclusion in the small farmers' programme. Perennially irrigated land is the best land and in both the reports per acre net income from such land is maximum at Ms. 1621 and Rs. 406 in the first report of 18th December 1971 and second report of 14th August 1972 respectively. The maximum permissible holding of perennially irrigated land was 7.5 acres and then the net income from such land will be Rs. 12157 and ks. 3045 on the basis of first and the second report's findings respectively. It might be remembered that both the reports state that the not income per acre from each category of land was arrived at after working out per acre cost of cultivation, gross return etc. How the per acre net income from perennially irrigated land and unirrigated land in the second report happened to be barely 25 per cent and 20 per cent of that in the first report is really a puzzle that can be answered by the study group alone. The study

the confirmation of the relationship is that the two reports submitted by

group's second report does not state that it had missed certain items of cost initially in respect of these lands and crops in the first report and the reduction in income was the result of taking note of such costs. Nor is there anything by way of evidence that it collected some fresh data throwing up different crop-mix and costs that resulted into a reduction in net income per acre. If the first report is to be ralied upon then the maximum net income of Rs. 12000 and more for a potentially viable small farmer is nothing but fantasy. Actually on the basis of the first report the 'potentially viable's small farmer's income ranges between Rs. 710, based on 10 acres of warkes land, and Rs.12000 and more based on 7.5 acres of prennially irrigeted land. If the second report is to be relied upon the maximum net income will be Rs. 3000 and a little more. This income limit seems to be quite reasonable but the basis of arriving at this income does not ring reliable. It is unimaginable that a perennially irrigated one acre of land will yield a net income of Rs. 406 only. It seems likely that the agency had thought of Rs. 3000 net income to be the income for a small fermer to become a viable farmer and while this was never stated explicitly, the per acre net income as given in the first report of 18th December 1971 was manoeuvred, to fulfil this condition, in the second report of 14th August 1972. The net benefit of such a manoeuvre could be that the upper limit of 7.5 acres of perennially irrigated land need not be brought down to about 2 acres if the income criterion of Rs. 3000 is to be ever adhered to. Besides this advantage additional cultivators with perennially irrigated holding upto 7.5 acres, or its equivalents in other categories of land, could be allowed to secure benefits of the programme even if on purely technical grounds of land holding. In fact, the second advantage will be the more important of the two as the cultivators who would not be otherwise eligible could be shunted in either of the two programmes

All the above supposedly related to the small fermer but the Agency in fact had defined a small fermer as a small holder. The 'master lists' of small and marginal fermers were based on the individual owned land holding as per the revenue record. By and large the individual land holder has been assumed to constitute a small or a marginal cultivator's family which need not and is not necessarily the case. That this had been so can be seen from the following.

	Village	Households as per 1971 Census	Small farmers identi- fied	Mørginøl førmers identi- fied	Total farmers in the village	
•	1. Mhaveshi 2. Adul 3. Urul 4. Nisere 5. Mandrul Haveli 6. Navedi 7. Vihe 8. Dangawad 9. Donawade 10. Maroli 11. Saikade-Manewadi 12. Gudhe	453 456 281 244 935 500 462 460 706 466 575 432	77 58 57 36 45 71 75 44 112 59 24 27	485 404 309 271 411 425 439 327 618 402 324 389	562 478 366 307 456 496 514 371 748 461 509 419	

The workshop had all along stressed the individual small farmer. It is, however, doubtful that what was meant by an 'individual farmer' was in fact supposed to mean individual landholder. It will be appropriate to consider that the individual farmer really meant the individual farmer's family with its total land holding, such a family may have only a single landholder or more than one landholder. The small farmer, therefore, needed to be defined in terms of the total land holding of the farmer's family rather than in terms of an individual landholder and his land holding. Leaving aside as to whether individual small farmer meanten individual landholder or the farmer's family holding, irrespective of the number of landholders in the family, it seems necessary, especially in the light of the legislation irrespective of the number of landholders in the femily, it seems necessary, especially in the light of the legislation relating to 'Ceiling on Agricultural Lands', that for defining a small farmer total land holding of the farmer's family should have been made the basis for identification of a small farmer, unless it could be, otherwise, established that the various land holders in a given family existed as distinct cultivating entities with certain other essential investment in agriculture such as draught cattle, implements etc. of their own and thus could be called a separate cultivating family. cultivating family.

In certain cases it was found that the small or the marginal farmer happens to be one of the land holders in the family and the family holding is much larger when compared with the acreage stipulated for a small or a marginal farmer. The total number of farmers identified, inclusive of small, marginal and large farmers, therefore, happen to be larger than the total households in the village. The family is the cultivating antity that cultivates all the lands of the individual land holders. The cropping for such individual land holder is really a part of the crop plan for the family lands and thus the cropping on the individual holder's land could be a result of the 'Customery Security Expectations' in regard to food and fodder requirements of the family. The same crop plan need not necessarily be practised or feasible on the holding of the single land holder when he is looked into in isolation from the rest of the family holding. Under such circumstances it is not only the land asset that shrinks in size but in relation to it other assets (draught cattle, implements etc.), too, would change and the crop-mix possible then will not necessarily be possible under the new set of assets and resources. Calculation of repayment capacity based on cropping of such individual holding, which really forms a part of the family holding, may result into over-estimation of repayment capacity or under-estimation of the same. The first would result into excess financing and the resulting overdues in course of time and the second in under-financing which may be inadequete to meet the necessary investment unless additional finance is available from some other source or it may simply result into the credit facility being not available at all.

Some Other Aspects of Identification

# Some Other Aspects of Identification

The Ministry of Agriculture had instructed that the identification of small farmers was to be on the basis of land holding. It never laid any emphasis on income nor did it lay down any income criterion for identification of small farmers. However, as already stated earlier, what has not been suggested as a criterion can, in effect, be put to same use as a result of Agency's own report. The

maximum income, as a result of the second report of the study group, that was possible was ks. 3000 from 7.5 acres of perennially irrigated land and its equivalents in other categories of land, set the limit for inclusion of a farmer for securing benefits under SFDA. If we consider the 'potential viability' of the small farmer along with this, it will not be very much wrong to assume that any income beyond ks. 3000 would naturally eliminate the farmer from securing any benefits under SFDA. Viability of the small farmer was expected to be attained not only in terms of income from agriculture alone but along with agriculture other subsidiary occupations, too, were to be taken into consideration and wherever necessary the farmers were to be aided to diversify into such subsidiary occupations. The subsidiary occupations proposed in the programmes were dairy development, poultry and sheep and goat rearing etc. So far as any of the familias pursued these occupations along with farming and their total income from these occupations exceeded ks. 3000, these need to be excluded from the purview of the programmes. Similarly, in case of families pursuing any other occupations, such as blacksmithy, carpentry etc., income from these occupations, too, needs to be taken note of. As a result of taking all these sources of earned income into consideration it will be quite in order to expect, if at all any semblence of equity is to be maintained, that all the small farmer families that already have a total income exceeding Rs. 3000 be excluded, from the purview of the programme, even if such families will qualify for inclusion on purely technical grounds of land holding. Once salaried services with a steady income of ks. 200 per month or ks. 2400 per annum have been excluded from the purview of the programme, irrespective of income from land, there is no reason why the same rule should not be made applicable, with some necessary variations, to other occupations too. Potential viability is not expected of the marginal farmers and

Another source of income not considered above is income from agricultural wage labour. As small and marginal farmers engage wage labour for their farming operations, they in turn work as agricultural labourers. Since cost by way of expenses on wage labour engaged in cultivation are to be considered to arrive at income from agriculture, there is every reason to consider any wage labour income such families earn for arriving at the total income and if such total income exceeds Rs. 3000 then these families, too, should be excluded from purview of the programmes.

Tables 3, 4, 5 and 6 give distribution of small and marginal farmers, in the sample, by income from agriculture and total income from all sources for the two years 1971-72 (Tables 3 and 4) and 1972-73 (Tables 5 and 6). In terms of total income 27 and 26 small farmer families for the two respective years will have to be excluded and the same will be necessary in respect of 11 and 16 marginal farmer families for the respective years. Even if income from agriculture alone was to be considered, 11 and 18 small farmer families and only 1 marginal farmer family for the year 1971-72 will have to be excluded. Tables 7 to 10 give distribution of small and marginal farmers according to income from agriculture

2

, <u> </u>	,						Smell	Farme	rs						
Income from			•		`		To	tel in	come (	ks.)					
Agriculture (Rs.)	Upto 500	501. to 750	751 to 1000	1001 to 1250	1251 to 1500	1501 to 1750	1751 to 2000	2001 to 2250	2251 to 2500	2501 to 3000	3001 to 3500	3501 and more	Nil	Nega- tive	Totel
Upto 500 501 to 750 751 to 1000 1001 to 1250 1251 to 1500 1501 to 1750 1751 to 2000 2001 to 2250 2251 to 2500 2501 to 3000 3001 to 3500 3501 and more Nil Negative	1				1 2 1	3 - 1 - 4			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			929838223410 - 2
Total	1		1	3	9	8 8	3	2	3	 6	7	20			63

Table 3: Distribution of Small Farmers according to Income from Agriculture and Total Income (1971-72)

Table 4: Distribution of Marginal Farmers according to Income from Agriculture and Total Income (1971-72)

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Income from Agriculture (Rs.)	Upto 500	501 to 750	751 to 1000	1001 to 1250	1251 to 1500	1501 to 1750	1751 to 2000	2001 to 2250	to	2501 to 3000	to	3501 and more	Nil	Naga- tive	Totel	
Upto 500 501 to 750 751 to 1000 1001 to 1250 1251 to 1500 1501 to 1750 1751 to 2000 2001 to 2250 2251 to 2500 2501 to 3000 3001 to 3500 3501 and more Ni1 Negative	3	3	7 4 1 2	7 3 1	3 2 1 1	7 4 2 3	3 1 2 1 2	2 3 2 1 4 1	1	2 - 1 3 2 2 1		3 1 1 2 2 1 1			41 19 10 162 43 11 32	22
Total	3 	3	14	12	9	16	9	13	6	11	3	8			107	i

Table 5: Distribution of Small farmers according to Income from Agriculture and Total Income (1972-73)

							Small	Formor	<u>s</u> .								
Income from					_	<del>-</del> -		Total	income	(Rs.)							
Agriculture (ns.)	Upto 500	501 to 750	751 to 1000	1001 to 1250	1251 to 1500	1501 to 1750	1751 to 2000	2001 to 2250	2251 to 2500	2501 to 3000	3001 to 3500	3501 and more	Nil	Naga- tive	Total		
Upto 500	2	.,	•	·	•			. = = =		·	, -		<b>+</b>			•	
501 to 750 751 to 1000	- -	-	î 1	1 -	1	į	-	-1	.1	-	> 2 - -	ī	<del>-</del>	-	13 2 6		
1001 to 1250 1251 to 1500 1501 to 1750	_		- T	-	1	1 -	1 1 1	;	ī	- -	ı ī	ī		-	6 3		رم در
1751 to 2000 2001 to 2250 2251 to 2500	- -		-	-	-	-	1	1 -	1	<u> </u>		-	· <u>-</u>		7 1		_
2501 to 3000 3001 to 3500 3501 and more			-	<u>.</u>		-	-	-	-	2	i	1 2	-	-	. 5		
Nil Negetive	=		- <del>-</del> .	ī		-	-	_,	-	 		13	-		13 1		
			<u>-</u>												<del>.</del>		
Total	2	1	- 5	5	5	3	5	3	5	3	7	19		-	63		

							Mer	ginal	Farmer	<u>s</u> .					
income from			\-					Total	Income	(hs.)					
egriculture (kg.)	Upto 500	501 to 750	751 to 1000	1001 to 1250	1251 to 1500	1501 to 1750	1751 to 2000	2001 to 2250	2251 to 2500	2501 to 3000	3001 to 3500	3501 and more	Nil	Nega- tive	Total
1	. ***														
Upto, 500 501 to 750 751 to 1000 1001 to 1250 1251 to 1500 1751 to 2000 2001 to 2250 2251 to 2500 2501 to 3000 3001 to 3500 3501 and more Nil Negative	1	3 4	424	5222	2 3 1 3 4 1	3122	2 2 3 2	1 1 1 1 2 2	1 1 2	2 1 2 2 1 2 2 1		1 2 2 1 3			246 166 183 555 3 - 334

Table 7: Distribution of Small Farmers according to Income from Agriculture and Animal Husbandry and Total Income (1971-72)

						Sm	ell Fa	rmors	•				-			
Income from	,					Tot	el inc	ome (R	s.)							
Agriculture end Animel Husbandry (Rs.)	Upto 500	501 to 750	751 to 1000	1001 to 1250	1251 to 1500	1501 to 1750	1751 to 2000	2001 to 2250	2251 to 2500	2501 to 3000	3001 to 3500	3501 and more	Nil	Nege- tive	Total	
Jpto 500 501 to 750 751 to 1000 1001 to 1250 1251 to 1500 1501 to 1750 1751 to 2000 2001 to 2250 2251 to 2500 2501 to 3000 3001 to 3500 3501 end more	1				2 14 1	1 5	2 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 - 3 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 12 1 13		-	4 2 4 5 7 10 6 3  4 4 13	
Cotal	··· • 1·	-	1	3	9	8	3	2	3	6 •	7	20			63	

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				_			Margi	nal Fa	rmers					•	
ncome from							To	tal in	come (	ks.)			"		,
griculture and nimal Husbandry (Rs.)	Upto 500	501 to 750	751 to 1000	1001 to 1250	1251 to 1500	1501 to 1750	1751 to 2000	2001 to 2250	2251 to 2500	2501 to 3000	3001 to 3500	3501 and more	Nil	Nega- tive	Total
pto 500 501 to 750 751 to 1000 001 to 1250 251 to 1500 501 to 1750 751 to 2000 001 to 2250 251 to 2500 251 to 3000 001 to 3500 501 and more	3	1 2	5177	4422	3 1 3 2	342511	1 1 2 1	2 31 14 2	1 2 1	1 3 2 1 2		3 - 1 1 1			21 16 20 13 7 57 6 53 2 1
otal	3	3	14	12	9	16	9	13	6	11	3	8	·	 -	107

Table 8: Distribution of Marginal Farmers according to Income from Agriculture and Animal Husbandry and Total Income (1971-72)

Small Farmers Total income (hs.) Agriculture end Upto 501 751 1001 1251 1501 1751 2001 2251 2501 3001 3501 Nil Nega- Total Animal Husbendry 500 to to to to to to to to to sind 750 1000 1250 1500 1750 2000 2250 2500 3000 3500 more tive (Rs.) Upto 500 501 to 750 751 to 1000 1001 to 1250 1251 to 1500 1501 to 1750 1751 to 2000 2001 to 2250 •2251 to 2500 2501 to 3500 3501 and more 13 2 8 3501 and more Nil Negative Total

Table 9: Distribution of Small Fermers according to Income from Agriculture and Animal Husbandry and

Total Income (1972-73)

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•	*												•		
		<b>.</b>		<u>.</u>		•	Margi	nəl Fə	rmers				:		
	Total income (Rs.)														
Income from Agriculture and Animal Husbandry (Rs.)	Upto 500	501 to 750	751 to 1000	1001 to 1250	1251 to 1500	1501 to 1750	1751 to 2000	2001 to 2250	2251 to 2500	2501 to 3000	3001 to 3500	3501 end more	Nil	Nega- tive	Total
Upto 500 501 to 750 751 to 1000 1001 to 1250 1251 to 1500 1751 to 2000 2001 to 2250 2251 to 2500 2501 to 3000 3001 to 3500 3501 and more Nil Negative	1	6 2 1	324	62 4	414-5	133	2 1 2 3 1	1 1 2 - 2	1 1 2 2 1 1	1 12 3 1 1 2	2 1 1	2 1 1 1 - 2 2 2 3 - 3			27 11 16 10 11 6 3 5 4 5
Total	1	9	11	12	14	7	9	7	8	 11	4	12		2	107

Table 10: Distribution of Marginal Farmers according to Income from Agriculture and Animal Husbandry and Total Income (1972-73)

• • •						3m	ell Fa	rmers							4
Income from Agriculture, Animal Husbandry and Agricultural wages (Rs.)	Total income (Rs.)														
	Upto 500	502 to 750	751 to 1000	1001 to 1250	1251 to 1500	1501 to 1750	1751 to 2000	2001 to 2250	2251 to 2500	2501 to 3000	3001 to 3500	3501 and more	Nil	Nega- tive	Total
Upto 500 501 to 750 751 to 1000 1001 to 1250 1251 to 1500 1751 to 2000 2001 to 2250 2251 to 2500 2251 to 3000 3001 to 3500 3501 and more Nil Negative			1	3	216	1 5	3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2 1 3	1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 2 1 3 13			2 1 3 6 9 8 8 4 - 4 4 13 - 1
Total	1	•	1	. 3	9	8	3	2	3	6.	7	20	· 		63

Table 11: Distribution of Small Farmers according to Income from Agriculture, Animal Husbandry and Wage Labour and Total Income (1971-72)

												1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
• •							Margi	nal Fa	rmors		•				
ncome from Agri-		Total income (ks.)													
culture, Animal Husbandry and Agricultural Wages (Ms.)	Upto -500	501 to 750	751 to 1000	to	-1251 - to -1500	. to	1751 to 2000	to	-2251 to -2500	2501 to 3000	3001 to 3500	3501 and more	Nil	Nega- tive	Total
19to 500 501 to 750 751 to 1000 1001 to 1250 1251 to 1500 1751 to 2000 2201 to 2250 2251 to 2500 2251 to 3000 3001 to 3500 3501 end more Nil	3	1 2	1 12 - 12	2226	2 1 2 4	123226	11 2 5	1 3 1 1 2 5	1	1 3 2 3		3 - 1 1 1 1			11 11 25 12 11 88 8 5 4 2 1
Total	3	3	14	12	9	16	9	13	6	11	3	8		·	107

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Table 12 : Distribution of Marginal Farmers according to Income from Agriculture, Animal Husbandry and wage Labour and Total Income (1971-72)

Table 13 : Distribution of Small Farmers according to Income from Agriculture, Animal Husbandry and wage Labour and Total Income (1972-73)

•						• • • •	Small	Farmer	<u>s</u>						•
Income from Agri- culture, Animal Husbandry end Agricultural Wages (Rs.)	Total Income (ks.)														
	Upto 500	501 to 750	751 to 1000	1001 to 1250	1251 to 1500	1501 to 1750	1751 to 2000	2001 to 2250	2251 to 2500	2501 to 3000	3001 to 3500	3501. end more	Nil	Nega- tive	Totel
Upto 500 501 to 750 751 to 1000 1001 to 1250 1251 to 1500 1501 to 1750 1751 to 2000 2001 to 2250 2251 to 2500 2501 to 3500 3001 to 3500 3501 and more Nil Negative	2		1 4	2 1 1 1	1 1 3 3	1 2	1 3 3	1	1 1 2	1 2	1 2 2 2 2 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			7 10 3 5 3 5 3 5 3 5 3 5 3 5 1 3 -
Total	2	1	5	5	5	3	5	3	5	3	7	19			63

31

Table 14: Distribution of Marginel Form rs according to Incom from Agriculture, Animal Busbandry and Wage Labour and Total Income (1972-73)

Income from Agri-	-, 				, -	<u>M</u>		l Farm	ers ncome	(Rs.)	,-		- <b></b>	. <del></del> .		<b></b>
culture, Animal Husbandry and Agricultural ages (Ns.)	Upto 500	501 to 750	751 to 1000	1001 to 1250	1251 to 1500	1501 to 1750	1751 to 2000	to .	2251 to 2500	2501 to 3000	3001 to 3500	3501 end more	Nil	Negs- tive	Total	· <b>-</b> ·
Upto 500 501 to 750 751 to 1000 1001 to 1250 1251 to 1500 1751 to 2000 2001 to 2250 2251 to 2500 2501 to 3000 3001 to 3500 3501 end more Nil	1	45	1 1 7	5	412 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 3 - 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - 2 2 1 - 2	2 2 2 2 1 3 1 1 1	112	1 1 1 1 2 1 3			20 99 13 12 13 96 44 63 33	32
Total	1	9	11	12	14	7	9	7	8	11	4	12		2	107	

and animal husbandry (including dairying, poultry) and total income. Since dairying and poultry were important subsidiary occupations proposed for giving a boost to incomes of these families these alone are considered in the Tables. As a result of this clubbed income 17 and 18 small farmer families and 3 marginal farmer families for the two respective years will not be eligible for any assistance under the programme. Tables 11 to 14 give distribution of small and marginal farmers according to income from agriculture, animal husbandry and wage labour and total income. So far as income from wage labour is concerned small farmers are not much affected their number remaining the same at 17 and 18, for the respective years, as in case of income from agriculture and animal husbandry. With the inclusion of income from wage labour the number of marginal farmer families exceeding the income of Rs. 3000 from agriculture, animal husbandry and wage labour rises to 3 for 1971-72 and 6 for 1972-73. Comparing the tables for 1971-72 and 1972-73 it is clear that almost all the farmers who exceeded the income of Rs. 3000 per annum in 1971-72 have continued to retain their income in 1972-73 and this resulted from their better resource position. This does not take into consideration the total income from all the sources but only the income from agriculture, animal husbandry and wage labour.

How these families got included in the scheme is not

How these families got included in the scheme is not difficult to explain. The agency defined small and marginal farmers in terms of land holding of various categories of land and did not match it with total income or income from agriculture and any subsidiary occupation such as dairying, poultry etc. and the this was quite in keeping with the Ministry's instruction. The necessity and importance of an income criterion need not be stressed. Failure to decide any income criterion may result into the very danger of large farmers trying to secure the benefits of the programmes and which, the 'all India hural Credit Review Committee' warned, needs to be guarded against. The selection for inclusion in the 'master lists' of small and marginal farmers was, further, aggravated by total reliance of incomplete land records (mainly Village Form &A) that had not taken any note of changes by way of recently acquired irrigation facility etc.

Another matter that needs to be considered is the application of the definition of 'Irrigated Land' in B.T. and A.L. Act, 1948. This definition has been used by the study group for the purpose of determining equivalents in each category of land and then for the purpose of deciding the eligibility of farmers for securing benefits under the schemes. As per Section 6A of the seid Act irrigated land has been defined as below.

- (a) Irrigated land whether perennially or seasonally irrigated, shall not include land irrigated by sources other than canels or bendbaras within the meaning of the Bombay Irrigation Act, 1879, or any lift irrigation system constructed or maintained by the State Government.
- (b) Seasonally irrigated land shall include alluvial land and land situated in the bed of a river and seasonally flooded by the water of such a river.

This definition of irrigated lands effectively excludes irrigated lands which have been the result of private investment in irrigation. The purpose of such irrigated lands being excluded from the definition of irrigated lands

might have been with a view to encourage private investment in irrigation and not deter it. Firstly, this definition need not have been binding on the SFDA as the Agency was itself intending to encourage such investment in irrigation with the necessary subsidies and the subsidies should be enough incentive to undertake such an investment in irrigation. Secondly, for all practical purposes of identification of beneficiaries, the Agency treats such irrigated lands as dry lands and thereby denics the beneficial effects of irrigation on productivity and hence income. This, therefore, results into an effective ceiling on land holding of a small farmer of 22½ acres of unirrigated dry land or 30 acres of warks land even if some area of this holding is irrigated through private sources of irrigation. The sim of the SFDA is to make the 'potentially visble' small farmer a 'visble' farmer and this concept of visbility cannot be considered without some income criterion and then such irrigated land which is bound to yield better income than the dry land needs to be considered as irrigated land and not dry land irrespective of B.T. and A.L. Act, 1948. By not recognising this the Agency's definition of a small farmer is likely to be prejudiced in favour of farmers with private investment in irrigation to the exclusion of others and especially against the dry farmers.

One more espect of identification relates to inclusion of 'Kumri' land in the land holding of the fermers identified 'Kumri' land has been described by Mr. Ozanne as being "Poorer land cultivated at long intervals by allowing the scrub to grow, cutting and burning it and then sowing the crop". In Kolhapur rules it is simply called "hill cultivation". In the Survey and Settlement Manual Volume II by Gordon, 'Kumri' land has been divided into two classes.

Class I - Lend which is red in colour and a Hath or more in depth which can be ploughed, but with slight difficulty owing to steepness of the hill or to large boulders scattered over it.--anna Value 3.

Class II - Land red in colour which cannot be ploughed owing to the steepness of the hill, but is dug with a pick or which being level enough to be ploughed is less than keth in depth.--Anna Value 2.

The 'Kumri' land is also classified as lst Kumri if habitually cultivated and 2nd Kumri if never cultivated. The land is on the hill slopes and it is very difficult to classify the land. The depth varies so suddenly and irregularly that it would be difficult to work out the average except with eye estimate.

The land corresponds to ordinary Warkes of the Konken area.

The metter was raised in the Agency meeting and as per its "mesolution No. 86 the 'Master Lists' of cultivators were prepar'd excluding the 'Mumri' land from the land holding of the farmers. However, the Project Officer was requested to put up a note regarding inclusion or exclusion of Kumri lands in Patan, Jawali and Mahabaleshwar Talukas of Satara district. The Project Officer furnished the above given information in regard to 'Kumri' land and after considering the matter the Agency by its mesolution No. 135 decided that only those 'Aumri' lands which are habitually cultivable be included in arriving at the land holding of the farmer and

these lands be treated on par with 'warkas' land. The matter should have rested here but the Chief Executive Officer, Zilla Parishad, Satara, came out with a suggestion, in the 13th Agency meeting of 24th May 1972, that the 'Master Lists' in Patan taluka had been prepared excluding all 'Kumri' lands and the cultivators have been grented loans on the basis of the Master List. Inclusion of 'Kumri' land in the land holding of identified cultivators will create further problems and uncertainty and hence such inclusion need not be undertaken in respect of Patan taluka. Inclusion of 'Kumri' land in the land holding of the identified cultivators was not the problem in Jawali and Mahabaleshwar talukas as that had been included while preparing the 'Master Lists' in these two talukas. The Chairman of SFDA-Chiplum accepted the suggestion of the C.S.O., Zilla Parishad, Satara, and further suggested that these lands in respect of Patan taluka be taken into consideration in respect of those small farmers who are likely to exceed the ceiling prescribed under the small farmers definition and at the time of considering the loan application. Only hebitually cultivable 'Kumri' land be considered in respect of the above was his further suggestion. How this suggestion is going to be implemented is difficult to follow. There is every likelihood that the loan applications will be processed on the basis of the 'Master Lists' and if that happens to be the case it will be unfair to the cultivators from Jawali and Mahabaleshwar talukas where such land has been included while preparing the 'Master Lists'. The extent of 'Kumri' land in Patan taluka is not given by the Project Officer's report or note. After all if the extent is meagre there should be no difficulty in correcting the 'Master List' needs to be corrected to have a uniform pattern in all the talukas falling within Agency's jurisdiction.

Lestly, the SFDA-MFAL-Chiplun in its 18th Meeting held on 27th November 1973 has come out with a statement that the 'Master Lists' in this project has been prepared on the basis of VF 8A. As a result of a D. letter of 4th September 1973, from the Joint Secretary to the Government of India to the Chairman of this Agency, the 'Master Lists' are to be thoroughly scrutinized and a complete and detailed verification of selected participants under various programmes was to be taken up and those, whose family operational holdings are larger than the maximum adopted or whose income from all sources is substantial are deleted from the list.

Relevant extract of letter No. 14-14/71. Egri. Cr., Government of India, Finistry of Agriculture (Department of Agriculture).

New Delhi-1. 15 October, 1971.

The identification of eligible participents is of fundamental importance to the scheme. It is, therefore, necessary to exercise utmost care and precaution in the identification and selection of participants in the agency areas. The following guidelines are, therefore, suggested for consideration, in this connection:

- (1) The Secretaries Committee has invariably laid down parameters for the selection of participants in the project. If criteria have not been laid down for irrigated and unirrigated land or for combination of both, separate limits and a rough formula for the conversion of wet and dry land to arrive at the effective size of holding may be laid down based on an estimation of likely income. It is possible that the State Government already has a formula in respect of this, in their statistics with particular reference to ceiling laws, and the same may be adopted to avoid confusion. This will facilitate assy identification of participants.
- (2) A suitable proforms may be devised for recording identification, collection of information regarding the size of the holding (including the area in other villages) giving irrigated and unirrigated area, crops raised and the cropping pattern followed on the farm, the types of inputs generally used and so on. Information relating to each participant may be collected in such a proforms.
- (3) The list of such eligible farmers may first be prepared with reference to land revenue records. They should then be verified with reference to actual cultivation so that a realistic list is prepared, taking into account not merely land ownership, but land cultivated under other tenurial system also. A test check of at least 10% should be made by extension officers and B.D.C. to see that the lists represent the true position in the field. Test check of the correctness of identification should similarly be made by higher officers touring in the project area.
- (4) Share-croppers and tenants who do not have recorded rights may not be able to obtain long-term credit for developmental purposes because lack of security and identifiable cultivation rights. The local revenue and developmental administration may, however, help to identify the cultivation rights so that the Agency may, in its turn, extend the assistance for crop losns to this class of small/marginal farmers.
- (5) The work of identification in the selected villages may be undertaken by V....w. Patwari or Revenue Inspector, Agricultural Extension Officer and Cooperation Extension Officer. Whenever possible a representative of the central cooperative bank should also be associated with the identification work. Wide publicity may be given to the work so that genuine small farmers not included in the lists could represent their case at that stage itself.

- (6) After the beneficiaries have thus been identified and listed by the above persons, the lists containing their names and other particulars may be passed on to the primary cooperative societies and the concerned commercial banks. The next step would be to take up the enrolment of farmers by the Cooperative Society. List of identified participants together with these who are to be enrolled as new members should also be passed on to the Central Cooperative Bank in the area.
- (7) After enrolment as members the requirements of small/marginal farmers should be ascertained and included in the normal credit statements. Separate statements will need be prepared for such identified farmers and others to ensure flow of credit to all small/marginal farmers.
- (8) Short-term credit will be provided on the basis of crop loans system to farmers who adopt, wherever practicable and feasible, high yielding varieties in conjunction with improved agricultural practices and investment credit with reference to incremental income from such investment and the repaying capacity of the loance. Therefore, a careful selection of the participants and formulation of programmes is necessary for the credit agencies to extend financial assistance.

No. 117-26/73-Agri.Cr., Government of India, Ministry of Agriculture, (Department of Agriculture).

New Delhi-1, 13 April, 73.

To.

The Chief Secretaries to all State Govts/UTs. All States/U.T.S.

Sub: Identification of Small/marginal farmers and agricultural labourers - regarding.

Sir,

I em to refer to this Ministry's letter No.14-14/71. Agri.Cr., dated the 15th October, 1971 suggesting certain criteria for identification of the beneficiaries under the 3FDA/MFAL Programmes. The Agencies have been advised to adopt the operational holdings rather than recorded rights in land records for identifying participants. Identification was related to operational land holdings as it would be more realistic and easily verifiable. It was left to the agencies to devise and adopt forms for such identification. Since the schemes of SFDA and MFAL were meant to cater to the non-viable agriculturists, many of the agencies have adopted fairly detilled proforms for identification which included income from non-agricultural sources also. Most of the agencies have, by now, got the lists of identified beneficiaries with them. It should, therefore, be possible to eliminate from these lists the agriculturists who derive substantial or steady income from other sources like trade and commerce, transport, professions, etc., even though they may be technically identified as eligible participants solely with

reference to the basis of land holdings. It is necessary to see that the benefits of the programmes reach the non-viable small and marginal farmers who require special assistance from the agencies. All the agencies are requested to see that their programmes of assistance exclude the small marginal farmers and agricultural Labourers who derive their income primarily from non-agricultural occupations and sources.

- 2. Most of the agencies are maintaining the lists of identified beneficiaries in the project offices apart from lists for the respective areas in the block offices, panchayat offices, etc. However it is reported by some of the financing institutions that the agencies are not able to furnish them the lists of identified participants in their area of operation and that the agencies refer them to block offices or panchayat offices for getting copies of such lists. All the agencies are advised to keep complete lists, of identified participants in their project offices, if not already evailable, and to furnish copies to the financing institutions (including Commercial Banks) direct for the relevant areas with which the financing institutions are concerned. Such lists can also be printed and copies made available to all the concerned offices like block development offices, panchayat offices, zilla parishads, Agriculture and animal husbandry Departments in the District as well as the financing institutions. Before printing such lists, the project officer and the assistant project officers should have had a test check and ensure that the lists are accurate.
- 3. It is expected that the agencies should select beneficiaries under various programmes with reference to the lists of identified small and marginal farmers and agricultural labourers. It would be useful for each agency to maintain in the project office a complete list of programme participants and maintain registers which will indicate, at a glance, the specific programme/programmes under which each of the identified participants have benefited. This would help the agency to avoid multiple subsidies for investment to the same beneficiary without first covering as large a number of identified participants as possible. The agency can also review, from time to time, whether intensive approach of coverage of all programme participants in the villages is being adopted and whether the programmes are serving the smaller among the identified participants instead of tending towards the larger land holding groups. It will be useful if an analysis of coverage of identified participants, is placed before the meetings of the Governing Body, if not already done.
- 4. It is requested that the Agencies may follow the instructions outlined above.

Yours faithfully,

Sd/-

Joint Secretary to the Govt. of India.

No. 17-26/73-Agri.Credit, Government of India, Ministry of Agriculture, (Department of Agriculture), New Delhi.

The 7th August, 1973.

To,

The Chief Secretaries to all State Govts./Union
Territories of Delhi, Goe and Pondicherry.

Sub: Identification of small/marginal farmers and agricultural labourers regarding.

. Sir,

I would like to invite your attention to this Ministry's letter of even number dated 17th April, 1973 on the above subject and to say that some of the Agencies have enquired as to what should be the limits of income from other sources like trade and commerce, etc. for exclusion of small/marginal farmers from the list of eligible participants. The matter has since been examined. It is suggested that the following additional criteria may be adopted to avoid diversion of the resources of the Agencies to these farmers who cannot really be deemed to be small and marginal farmers. Programmes of the agencies may, therefore, exclude:

- (a) such farmers as can be identified on the basis of land holding limits but have income from non-agricultural sources exceeding the income from the land may be excluded from the purview of the SFDA/MFAL programme;
- (b) farmers who have a steady income of hs.200/and above per month may not be considered for any assistance under the programme;
- (c) such of the farmers as are not engaged in cultivation themselves (partly or fully) may also be excluded from the programme, even if found eligible for identification on the basis of land holding limits.

It is requested that above instructions may be brought to the notice of SFDA/MFAL Agencies in your State for adoption.

The receipt of this letter may please be acknowledged.

Yours faithfully,

Sd/-

Joint Secretary to the Govt. of India.

(Note submitted to 11th agency meeting held on 18th Dec.1971

Small Farmers Development Agency Satara And Ratnagiri Districts ... Report of the Study Group.

The small farmers development agency has differentiated various categories of land as (i) Irrigated rice land, (ii) Ordinary packy land, (iii) Varkas land, (iv) Perennially irrigated land, (v) seasonally irrigated land and (vi) Unirrigated land for deciding the eligibility of holder of land for including him in the scheme intended for the economic development of small farmers.

The Agency had suggested the following workable relationship of different categories of land as equivalent to each other.

1)	Irrigated rice land	2½ to	7월	Acre
	Ordinary paddy land	3 to	ġ~	31
	Varkes land	10 to	30	97
4)	Perennially irrigated land	2½ to	7 ₺	tî
5)	Seasonelly irrigated land	5 to	15	17
6)	Unirrigated land	7⅓ to	223	11

The object of the study group was to confirm this relationship with some factual reasoning based on local information. So that different categories of land held by the individual farmer can be considered together to decide whether he belongs to the category of small farmers.

Sixteen villages from eight telukas (three from Setare district and five from Retnagiri district) were randomly selected. From each village six farmers were selected randomly. Thus the total sample was of 84 farmers. Information from 12 farmers of Mahabaleshwar taluka would not be obtained.

The crops grown by selected formers were classified according to the category of land on which they were grown.

The per acre cost of cultivation, gross return and profit from different crops for each category of land were worked out. The following categories of land were observed in the colored milliones. in the selected villages.

- i) Ordinary paddy land.
  ii) Varkas land.
  iii) Perennially irrigated land (by wells)
  iv) Unirrigated land.

The per acre net income from different categories of land is given below:

- 1) Ordinary Paddy Land
  - a) Rs. 283.00 (Matnagiri district) b) Rs. 300.00 (Satara district)
- 2) Varkas (when hill millets are grown)
  - a) Rs. 71.00

Varkas (when other crops are grown)

b) Rs. 414.00 (Satara Dist.)

- 3) Perennially irrigated land Rs.1,621.00 (Jatara)
- 4) Unirriguted land Rs. 540.00 (Satara)
- (1) The per scre net income from paddy land is about is. 261/- like Kulith and Pavata are grown after paddy in the selected villages in Konkan but the proportion of the area under pulses is very low (about 1/15) which earns additional amount of is.22/- per acre. Similarly in villages from Satara district rabi jowar is grown as second crop, but the proportion is also low (about 1/6) and earns additional amount of is. 39/- per acre. Thus, the total per acre net income from paddy land is is. 283/- and is. 300/- in Konkan and Satara respectively.
- (2) In Nonken villages only hill millets are grown on Verkes land. Average per acre net income from these crops is about is. 71/- (one in four year). But in Paten and Jaweli talukes of Satara districts other crops like ground-nut, local jower, hybrid jower, udid, etc. are also grown on verkes land. This gives the net income (Rs. 414/-) from verkes land in those talukes. Here, however, the figures of yield seem to be overestimated to a certain extent.
- (3) In the case of unirrigated land, which is available in Patan and Javali talukas the cropping pattern is not properly reflected in the information collected and the information of ground-nut only is available. Ground-nut being cash crop the per acre net income from unirrigated land is about hs. 743/-which seems to quite high. Food crop like jowar is the main crop grown on such lands. Considering jowar as one of the crops in the cropping pattern the per acre net income comes to about hs. 540/-.
- (4) On perennially irrigated land mainly sugarcane is grown. The per acre net income from this type of land is about ks. 1,621/-.

Following is the summary of conclusions.

•	Category of land	Lower limit fixed by SFDA.		r acre t income Rs.	Total income Rs.
1) 2)	Irrigoted rice land Ordinary paddy	2½ 3	a) b)	282.00 300.00	855.00 900.00
3) 4) 5) 6)	Varkas (one in four years) Perennially irrigated Seasonally irrigated Unirrigated	10 2½ 5 7½		71.00 1621.00 540.00	710.00 4052.50 4050.00

From the summary table it is seen that -

- i) 10 acres of varkas land to 3 acres of ordinary paddy land is not sufficient. This lower limit needs to be raised to 12 acres.
- ii) Lower limits of 2½ acres for perennially irrigated land and 7½ acres for unirrigated land seem to be quite high. Therefore, quite a large number of farmers below this limit will be excluded from the benefit of the scheme. These lower limits for

these categories of land may be brought down to a acre and la acre respectively.

S. Categories of land	Suggeste lower limit acres		Per acre net incom Rs.	Total ne income Rs.
1. Ordinary paddy land	3	a)	283.00	855.00 Ratnagiri
2. Verkes land	. 12	ъ)	300.00 71.00	900.00 Saters 852.00
<ol> <li>Perennially irrigated</li> <li>Unirrigated</li> </ol>	1 2 1 2		162.00 540.00	811.00 810.00

Note submitted to 14th agency meeting held on 14th August 1972 at 3atara

Accompaniment to Item No. 11

M.F.A.L. Project-I, Chiplun.

The fermers holding land between 2½ acres to 7½ acres were to be identified as Small fermers as mentioned in the Project Report approved by the Government of India. Total land holding of any fermer comprises of different categories of lands. These lands may be bagayat, perennially irrigated, seasonally irrigated jirayat land, Rainfed Paddy land or workes land. Many farmers holding warkss or inferior types of land measuring more than 7½ acres were treated as big farmers eventhough the actual yield obtained by these farmers was much less as compared with the yield obtained by the holders or rainfed paddy or bagayat land. Government of India therefore, allowed the State Government to refix the definition in case of farmers holding different categories of land taking into consideration the local conditions such as soil availability of irrigation etc.

2. The State level Project Coordination Committee revised the definition of Small and Marginal farmers in its meeting held on 3-12-1970. The revised definition is as follows:

1. Bagayat or Perennially irrigated Rice land	:	2 <del>}</del>	to	7호	scres.	
2. Rainfed Paddy land	:	3	to	9	acres	
3. Perennially irrigoted jirayat land	:	2 ½	to	7호	acres	
4. Seasonally irrigated Jirayat land	:	5	to	15	acres	
5. Unirrigated Jirayat land	:	7 ½	to	22 ½	acres	
6. sarkas land	:	10	to	30	acres	

The S.F.D.A. and M.F.A.L. Development Agency Project-I agreed to follow the revised definition and to identify the Small and Marginal farmers from the Project area accordingly vide Resolution No. 2A.

It was also decided vide Resolution No. 2B, that a Committee consisting of the Project Officer, SFDA/MFAL Project-I, Chief Executive Officer, Zilla Parished Satara and Ratnagiri, Professor of gricultural Economics, Dapoli and Chairman of the Agricultural Sub-Committee of Zilla Parished Satara and Ratnagiri should study the definition on the basis of the statement of crops prepared for different categories of land.

This Committee met on 1-2-1971 at Chiplum and decided upon the following course of action :-

- The questionnaire touching various aspects of the agricultural economics in the village should be drawn.
- Two villages from each of the blocks from the project area should be selected by random sampling method. 2.
- After the selection of the villages in each block 6 cultivators each holding 22 acres and 72 acres, 3 acres and 9 acres of rainfed paddy land and 10 acres of works land should be selected from the villages or nearabout villages in compact group.

The cultivators in these villages should be interviewed by the Panchayat Samiti agricultural staff and get the questionnaire filled in.

Sixteen villages from eight talukas (three from Satara District and five from Ratnagiri District) were randomly selected. The total sample involved 84 farmers as information in respect of 12 farmers from Mahabaleshwor taluka could not be obtained in time.

The crops grown by the selected farmers were classified according to the category of the land on which they were grown. The per acre cost of cultivation gross return and profit from different crops for each category of land were worked out. The following categories of land were observed in the selected villages.

- Ordinary paddy land.
   Warkes land.
   Irrigated land.
   Unirrigated land.

The per scre net income from different categories of land was worked out which is given below:

No. Lend	Limit	Per acre net income	Total income
1. Irrigated Rice land 2. Ordinery paddy land 3. Warkes land 4. Perennially irrigated land 5. Seasonally irrigated land 6. Unirrigated (dry land)	3 10 2½ Not 7½	261 71 406 found in the	783 710 1015 sample. 810

In the case of perennially irrigated land only sugarcane crop is considered as the crop remains in the field for

12 months or more. This crop is generally irrigated by well irrigation which is not an assured supply of water. However, by source of irrigation such lands may not be considered as perennially irrigated according to the definition of irrigated lands given in B.T. & A.L. Act, 1948.

Although there were not cases of irrigated rice land in the sample it is a common observation that irrigated Rice lands give little more income than ordinary rainfed paddy land. It is, therefore, felt that 2½ acres of irrigated paddy and 3 acres of ordinary packy can be treated as equivalent for practical purpose.

Warkas lands are cultivated every alternate year and give about Rs. 71 net income per acre. 10 acres of warkas land gives return of Rs. 710/-.

3. In unirrigated Jirayat land mostly food crops like Jawar is grown and it gives net income of Rs. 108 per acre. 72 acres of unirrigated land gives return of Rs. 810/-. The yield from 10 acres of warkas land compares favourably with yield from 72 acres of unirrigated land. Seasonally irrigated Jirayat land was not found in the sample.

The Relationship of 1:2:3 between Perennially irrigated Jirayat land, Seasonally irrigated Jirayat land and unirrigated land also appears to be correct.

Taking into consideration the economics of crops, the revised definition approved by the State Level Project Coordination Committee appears to be correct and may be accepted.

#### CHAPTER III

#### PROGRESS OF THE PROGRAMME

The jurisdiction of the SFDA-Chiplun comprised five talukas of hatnagiri district and three talukas of Satara district. The marginal farmer's scheme was operative in two talukas, Chiplun of hatnagiri district and Patan of Satara district, and SFDA-Chiplun was to administer it as this was a composite project. Details of small arl marginal farmers and agricultural labourers identified have been given in Chapter I. As per the project report the Agency was to cover about 50,000 families of potentially viable small farmers and about 20,000 families of marginal farmers and agricultural labourers during the four year period. Since the identified number of small and marginal farmers eligible to receive benefits under SFDA was 122,804 nearly two out of every five families had to be covered to fulfil the projects target. Similarly, the number of marginal farmers and agricultural labourers identified was 74,839 only two out of every seven families had to be covered to fulfil the project target.

### Progress of the Scheme

The Agency was expected to start functioning from April 1970, but that was delayed on some grounds or other and the actual working of the Agency started in October 1970. By then the targets for various schemes under both the programmes were more or less decided upon. The targets decided were for the proposed four year period of the programme and therefore, needed to be allotted for each year of the programme. In view of the delayed start to the functioning of the Agency, the period evailable for execution of the schemes was very short and thus the targets set for the first year, 1970-71, were nominal both under SFDA and MFAL. In fact, the normal working of the Agency started from April 1971. Table 15 gives the targets (in respect of certain individual items only) set for both ofDA and MFAL programmes from inception to 31st March 1973 i.e. upto the end of the third year of the scheme. Certain items such as joint wells, community wells etc. have not been included in the table specifically because fulfilment of these is very much dependent on the interest that Village Panchayats take into such a scheme. Targets for five talukas of Ratnagiri district have been clubbed together, while those for three talukas of Satara district are given separately.

Tables 16 and 17 give the progress under different schemes since its inception to end of June 1973. A cursory glance at the targets and the progress report, which was submitted to 17th meeting of Agency held on 23rd July 1973 at Satara, will be enough to tell that in most cases it is impossible to judge the progress of various schemes in relation to targets set for each item since inception. Incidentally, in the 16th meeting held on 30th April 1973 at Satara, the Agency took a review of its targets and achievements of these targets with a view to allotting targets for the remaining period, which had been extended to March 1976, of three years. This, however, will be looked into later. There is no consistency in prescribing targets and reporting the progress. For instance targets for 'Land Levelling' and 'Land Improvement' have been stipulated separately and in terms of acres, while the progress report marrates the number of applicants for both these items put together and there is no way out to

Table 15: Targets set up for 31st March 1973 from the Inception of the Schemes for Small Farmers and Marginel Fermers

		SFDA			MFA	 L
Item	Retne- giri	Maha- bala- shwar	Jawali	Peten	Chip- lun	Paten
1. Land levelling	330	40	70	130	110	135
(acres) 2. Land Improvement	2820	500	640	1440	630	930
(acres) 3. Nale bunding	240	30	55	75		-
4. Intensive Culti-	23340	7450				5875
vation (acres) 5. horticulture (acres)	100	8	2	10	175	175
6. Plough bullocks	900	200	200	300	100	100
7. Milch animals (Nos.)	2485	425	635	930	504	703
8. Poultry (units	140	30	30	40	51	111
of 50 birds) 9. Sheep and goat (units of 20)	125	30	30	65	110	510
10. Cattle sheds (Nos.)	235	1,00	125	200	50	100
ll. New wells (Nos.)	385	85	100	185	5	10
12. Repairs to old wells (Nos.)	235	26	50	120	22	57
13. Catch wells (Nos.)	81	10	20	25	-	4
14. Pump setsoil engines (No.)	340	45	65	185	36	96
15. Electric Motors (No	s.) 7	-	4	4	12	15
16. Shere capital loan (Rs.)	175000	20000	35000	50000	150000	150000
17. Managerial subsidy (Rs.)	200000	· <u>-</u>		-	-	-
18. Assistance to artisans (Rs.)	200000	-	-		•	
19. Assistance to Banks (Rs.)	100000	-	-	-	-	
20. Construction of godowns (No.)	15	3	3	. 3	-	<b>-</b>
21. Rural Works - Roads (Ks.)	-	-		-	500000	500000
				· .		

Table 16: Progress under Different Schemes Since Its Inception Upto End of June 1973

		<b>S</b>	mall Farmers						
Item	District or Taluka	No. of applications collected	No. of spplications senctioned	who lifted	Applic with	Applications with		Applice- tions	-
				loan	Bank	BDO	Other	rejected	
1. Land levelling and development	netnegiri Mahebeleshwer Jaoli Patan TOTAL	1133 121 253 218 1725	410 54 96 114 674	282 48 57 78 465	N.A. 1 2 17 20	N.A. 2 24 8 34	N.A.	N.a. 27 31 46 104	-
2. Plough Bullocks	netnegiri Hehebeleshwer Jeoli Peten TOTAL	1093	854 - - 854	603 - - 603	N.A.	A. N	N.A	N.A.	47
3. New wells	Retnagiri Mehabeleshwar Jaoli Patan TOTAL	157 47 80 99 383	120 36 56 47 259	114 33 44 46 237	N.A. 5 10 15	N.A.	N.A.	N.A. 8 9 13	
4. Repairs to Old Wells	Ratnegiri Mehabaleshwer Jaoli Patan TOTAL	74 2 46 20 142	41 16 12 70	39 1 11 12 63	N.A. 1	N.A.	N.A.	N.A. 1 1 7	

(continued)

Table 16: (continued)

Item	District or Taluka	t No. of No. of applications application collected senctioned		No. of farmers who lifted	Applic with	Applica- tions			
<u> </u>				loan	Bank	BDO	Other	rejected	
5. Pump Sets, oil engine, electric motor etc.	Retnegiri Mchebeleshwar Jaoli Patan TOTAL	206 30 101 87 424	124 5 61 48 238	103 2 47 32 184	N.A. 3 8 24 35	N.A. 1 10 11	N.A.	N.A. 5 15 12 32	
6. Milch Cattle	Retnegiri Mahabaleshwar Jaoli Patan TOTAL	1603 324 483 352 2762	1335 49 298 218 1900	823 33 183 133 1172	N.A. 153 106 19 278	N.A. 4 - 4	N.A. 85 - 85	N.A. 33 79 115 227	
7. Poultry	kstnegiri Mehebeleshwar Jaoli Peten TOTAL	198 - - 4 202	79 - - 3 82	71 - - 3 74	N.A.	N.A.	N.A. _ N.A.	N.A. - N.A.	

(continued)

**8** 

Table 16 : (continued)

	Item	District No. of No. of or applications applications Taluka collected senctioned		applications	No. of farmers who lifted	Applications pending with			Applica- tions	
					loan	Bank	BĎO	Other	rejected	
8.	Sheep and Gosts	Retnegiri Mehabaleshwar Jaoli	114	31	.5	N.A.	N.A.	N.A.	N.A.	
		Paten TOTaL	115	1 32	5	N.A.	N.A.	N.A.	N.A.	
9.	Cattle sheds	Ratnagiri Mahabaleshwar Jaoli	21 7	9	_4	N.A. N.A.	N.A. N.A.	N.A.	N.A. N.A.	49
		Paten TOTAL	- 28	-9	4		Ξ.	-	-	
10.	Intensive Cultivation	Ratnagiri Mahabaleshwar Jeoli Patan TOTAL	7275 1128 7674 2532 18609	7275 1128 7674 2532 18609	3181 422 2797 789 7189	N.A. N.A. N.A.	N.A. N.A. N.A. N.A. N.A.	N.A. N.A. N.A. N.A.	N.A. N.A. N.A. N.A.	

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Table 17: Progress under Different Schemes Since Its Inception Upto End of June 1973

_			Harginal Farm	⊬rs	•				
Item	Taluka	No. of applications collected	No. of applications sanctioned	No. of farmers who lifted	Appli with	cations	pending	Applica- tions rejected	
				loan	Bank	BDO	Other	relected	
1. Land levelling and development	Chiplun Patan TOTAL	218 438 656	176 306 482	126- 227 353	N.A. 106 106	80 80 80	N.A.	N 68 68	
2. Plough Bullocks	Chiplun Peten TOTAL	120 120	105	53 53	N.A.	N.A.	N.4.	N.A.	
3. New Wells	Chiplun Paten TOTAL	26 70 •96	18 52 70	18 41 59	N.A. 15 15	N.A. 3 3	N.A.	N.A. 6 6	
4. Repairs to Old Wells	Chiplun Patan TOTAL	6 19 25	1 12 13	<del>-</del> 9 9	N.A. 7	N.A.	N.A	N.A. 2 2	
5. Pump sets, oil engine, electric motor etc.	Chiplun Paten TOTAL	. 21 110 131	16 79 95	12 61 73	N.A. 25 25	N.n. 6 6	N.A. -	N.E.	

(continued)

ltem	Teluka	No. of applications collected	No. of No. of A spplications farmers W who lifted -		applications pending with			Applica- tions
<del></del>				loan	Ban <b>k</b>	BDO	Other	rejected
5. Milch Cettle	Chiplun Patan TOTAL	666 1444 2110	444 657 1101	297 352 679	30 111 141	-	9 52 61	183 624 807
• Poultry	Chiplun Paten TOTAL	ଞ୍ଚ ଷ 96	13 5 18	11 4	10	41 41	3	24 24
. Sheep and Gost	Chiplun Peten TOTAL	77 1 78	_6 _6	6 - 6	-	-	<u>-</u>	7 <u>1</u> 1
Cultivetion	Chiplun Patan TOTAL	4800 1770 6570	4800 1770 6570	4800 1770 6570	- - -	-	-	72 - -

know the area that is likely to be improved upon as a result of this scheme. The minimum that the Agency could have done in the matter of reporting progress was reporting the area for which loans have been sought, senctioned and lifted along with the number of applicants etc. This information is invariably available with the financing institutions and could have been made use of to give a better reporting of the Agency's activity. This could have given some idea as to how the particular scheme is progressing and is being responded to in relation to the target set for the year. There is an alternate way out to assess the area for which the loans have been sanctioned and lifted. The per acre rate of lending could have been used to find out the acreage since the progress report gives the amount sanctioned and lifted by these applicants. Here the difficulty in assessing the area arises on account of the differing per acre rates of lending in respect of land development and land levelling and also the lack of information regarding lifting of 1st or 1st and 2nd instalments. This, too, could have been facilitated if the Agency had asked the financing institutions to submit the information little more in detail and clearly. In effect the progress report at each of the meetings of the Agency results into a game of numbers. Additional difficulties to assess the area arise as a result of the lending policies of the financing institutions. The banks have not inveriably followed the lending rates per acre prescribed by the Agency. The agency had proposed lending Rs.500 per acre for land levelling and Rs. 250 per acre for lend improvement. How these per acre rates were fixed at this low level is difficult to know. As a result of the query made, in Merch 1972, the Divisional Soil Conservation Office had advised that as per their estimate the cost of levelling one acre of lend was around hs. 800 and to support his estimate had given the details of costs in four blocks in execution in Petan and Jawali talukas. The cost estimate given below.

# (1) Wambavede Bl. No. 12, Sub-division: Paten

Area of the block: 13-03 acres. % Slope: 4%

th	erage No. of terraces at are likely to ba nstructed in ona acre	3	Terraces
\ A		quantity	Amount (hs.)
to	erage earth work likely be carried out in one re of terraces	809-20 cu.metres	768.74
be	<ul> <li>of outlets that would required to be nstructed (Grass outlet)</li> </ul>	3	19.50
iv) Su	rvey work :	, ;	•
(a (b	) During construction ) Planning		9.00 2.00
Total	. Work's cost per scre		799.24
		4	

# 53 (2) Bhanang Bl. Mo.18, Sub-division: Medha (Jawali Taluka) Area of the block: 18-18 scres, % Slope: 5%. i) Average No.of terraces that are likely to be constructed in one acre 6 Terreces - Quantity ii) Avarage earth-work likely to be carried out in one acre of terraces 800 cu. 760.00 metres iii) No.of outlets that would be required to be constructed (Grass outlets) iv) Survey Cost: (a) During construction (b) Planning 39.00 9.00 2.00 Total Work's Cost per acre 810.00 (3) Wagneshwar Bl. No.16, Sub-division: Medha (Jawali Taluka) Area of the block: 8-11 acres. % Slope: 6%. i) Average No.of terraces that are like to be constructed in one acre 4 Terraces Quantity Amount (Rs.) ii) Average earth-work likely to be carried out in one acre of terraces 894-40 849.68 cu.metres iii) No.of outlets that would required to be constructed (Grass outlets) 26.00 iv) Survey Work: (a) During construction (b) Planning 9.00 2.00 Total Work's Cost per acre 886.68 (4) Goshatwadi Bl.No. 18, Sub-division: Patan Area of the block: 9-10 acres. % Slope: 7%.

i‡	Average No.of terraces that are likely to be constructed in one acre	4 Terraces				
		Guantity	Amount (Rs.)			
	Average earth-work likely to be carried out in one acre of terroces	761-60 cu.metres	723 52			
iii)	No.of outlets that will be required to be constructed (Grass outlets)	4	14.00			
iv)	Survey Work: (a) During construction (b) Planning	,	9.00 2.00			
lot	al Work's Cost per acre		748.52			

The four cost estimates are for land with varying slope from 4% to 7%. The variation in estimates is the result of local variations in the lay of the land, number of subdivisions in the total area of the block and the number of bunds atc. on the land. The Divisional Soil Conservation office had further communicated that the rates for earth-work paid by Soil Conservation Department were lower than the going rates and this variation, too, must be given due consideration when deciding the per acre requirement of funds. Considering all these factors an amount of hs.800 per acre for land levelling will be a fair and reasonable estimate. The Soil Conservation Office did not undertake construction of small bunds etc. that were covered under 'Land Improvement' and hence declined to give any estimates for the same.

The Land Development Banks that were to finence this investment in land thought the per acre rates low but accepted these rates only nominally. The banks had their own standard for per acre loan limit of 50 per cent of valuation calculated as 300 times land revenue. As a result of this though the banks accepted the per acre rates prescribed by the Agency rerely were these rates practised. There are quite a number of cases where the per acre finance made evailable to cultivators varied too much. For instance two extreme cases were noticed while collecting information from the banks and other official sources. In these two cases both the farmers (small) had asked and lifed loan for land development, the relevant information being as below:

•	Case 1	Case 2
1) Reason for Borrowing	Lend Improvement	Land Improvement
2) Owned land as per Village Form 8A	9-12 acres	10-03 acres
3) Area on which land improve- ment is undertaken or proposed	0-06 acres	10-03 acres
4) Amount of losn sanctioned	ks. 1300	Rs. 600
5) hate per acre in relation to area in (3) above	Rs. 8666	Rs. 60

There were sufficiently large number of cases in between the above two extremes and under such circumstances trying to assess acreage on the basis of loan senctioned and lifted and the per acre rates of landing becomes thoroughly meaningless. The banks, no doubt, must have assessed the repaying capacity of the borrower, security offered etc. and then come to the conclusion that the rate prescribed by the Agency, in such cases, was either too high or too low to carry out the necessary improvement.

The project report had prescribed the per acre rates of finance at Rs. 500 for 'Lend Levelling' and Rs. 250 for 'Lend development', 'end the same were accepted by the Agency in its 2nd meeting held on 28th January 1971. In the same meeting a member had raised the issue of the quantum of loan being low and had stated that it will be quita inadequate to undertake and complete the necessary investment. The matter was once again discussed in the 3rd meeting, held on 26th February 1971, and the Agency by its resolution No. 35 resolved that the Land Development Banks, should sanction the necessary loan for the purpose as per the recommendation of the Soil Conservation

Officer or his deputy, though for the purpose of subsidy the amount of loan considered will be 4s. 500 per scre or the actual whichever is low. The matter rested here until Jennery 1973 in spite of the Divisional Soil Conservation Officer, Setims, having submitted his estimates and recommendation that the loan amount of his. 800 per scre would be quite feir and reasonable. The matter was taken up ggain as a result of the latter No. 22-10/72 Agri, Cr. dated 27th/28th October 1972 from Director (Credit), Department of Agriculture, Government of India. The matter was taken up by verious Agencies with the Department of Agriculture, Government of India not in the form of adequacy or inequacy of loan per scre for land development but in the form of difference in subsidy rates practised by SFDA-HFAL and the State Governments and Union Territories. The pattern of subsidies under SFDA-HFAL was 25 per cent to 31.19 per cent of the cost of investment for verious programmes. The State Governments are implementing Plan and Non-Plein schemes which also provide subsidies to participent fermers at the rate of 15 to 50 per cent for different programmes. The suggestion from Government of India was that the present rates of subsidy under SFDA-HFAL will do not not be subsidied to the prest wherever the subsidy rates a lower under the State programmes. Wherever the subsidy rates of the state programmes were higher than the project pattern rate them in that case the rate of subsidy should be aligned to the prevalent State subsidy rate. The contribution from SFDA-HFAL will be in accordance with the approved pattern and the balence portion will be drawn from the State resources to attain the level of State pattern. Whether the State Government was greeable to such a proposal was not indicated in the level of State pattern. Whether the State Government was greeable to such a proposal was not indicated in the leveling of proposal was not indicated in the leveling. Of permissible expenditure limit be raised as the present one is inadeque

deportmentally by the State Government within the project area and thereby enhance its reporting of assistance to small and marginal farmers under the scheme. If this were not tobe so, it is difficult to understand why the Divisional Soil Conservation Officer, Matnagiri and Satera are requested to send the subsidy claims of all such small and marginal farmers whose lands have been developed departmentally after 30th January 1973 i.e. the date of the Mesolution No. 230. The State Government which pays subsidy at the rate of 62½ per cent on such works stands to gain if such an agreement has been reached since it now will have to bear the subsidy cost of 37½ per cent only. As a result of such an agreement, if at all any exists, it is only hoped that double reporting of land developed or levelled does not take place as a result of both claiming the area in their respective reports.

The above related to land levelling and land development and the progress reported at the end of three years ending March 1973 is very poor. In respect of other schemes, such as new wells, repairs to old wells, etc. falling under long term loans and milch enimals, plough bullocks, poultry etc. falling under medium term loans, the progress in relation to targets is very poor. In respect of 'intensive cultivation' the difficulty in assessing the progress arises in the same manner as has, already, been noted earlier in respect of land levelling and land development. Here again the progress report does not give acreages but once again gives the number of applicants etc. The targets prescribed for various crops, under intensive cultivation for the two years 1971-72 and 1972-73 were as given below.

## 1971-72

		Sme	ll Farn	ers		Marginal 1	ermers
		katna- giri Dist.	Patan	Jawali	Maha- bale- shwar		Peten
1.	hybried Paddy	10000	800	800	400	2550 <sup>*</sup>	-
2.	Hybrid Jower	•	2000	1000	1000		2500
3.	Oilseeds (acres) Total	3000 13000	800 3600	800 2600	400 1800		2500
	(* includes 50 ec	res of s	ummer r	eddy.)			
	: 	•	1972-7	73			
	Vegetable culti- vation (acres) High Yielding	140	100	50	25	60	200
	Paddy (acres) High Yielding	6400	800	1400	1400	1000	1000
	Jower (acres) Local crops	<u> </u>	2000	2000	<b>-</b> 500	- 500	1000 500
-	(acres) Oilageds (acres)	100	2000	2000	900.		400
	Sugarcane (acres)	200	400	200	900. <del>-</del>	25	75
	Total	10340	5300	5650	2825	1685	3175
i, eti ji Li		. 4%		•			- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10

The targets prescribed for various crops are as above The targets prescribed for various crops are as above while the reporting is in terms of number of applicants etc. and that too a cumulative figure since the inteption of the scheme. Even the response to various crops has not been detailed in the progress report. As in the case of land levelling and development detailed information could have been sought from the financing institutions and it could have been included in the progress report. It could have also been furnished from the subsidy demand from the banks and the societies that forward the claims for subsidy to the Agency. Even the alternate method to assess the acreage through loan societies that forward the claims for subsidy to the Agency. Even the alternate method to assess the acreage through loan disbursement is not open firstly, on account of differing rates of finance for various crops and secondly, because of the rate of finance that the Agency takes into consideration for the purpose of risk fund to financing institutions and subsidy to farmers. Additionally there is no way out to know whether the participants lifted loan for the full dose, one-half dose or one-third dose. The rate of finance considered by the Agency in its budget provisions is quite different from the rates that the banks deem fit. This can be seen from rates for various crops given below.

	·	٠	Agency	D.C.C.Bank Satara
2.	Kherif Paddy (per acre) HYV Paddy (per acre) HYV Paddy Summer (per acr	re)	Rs. 200 Rs. 300 Rs. 300	Rs.110 Rs.330 Rs.325+Rs.75 for pump irrigation
	Hybrid Jowar (per acre) Oilseeds (per acre)	(a) (b)	Rs. 150 Rs. 200 Rs. 100	Rs.295 Rs.130
6.	Local Crop Paddy Jower		<u>-</u>	Rs.110 Rs.105
7.	Sugarcane	(a) (b)	Rs.2000 Rs.1000	Rs.1400

(a - small farmers; b - marginal farmers.)

That the project report should have prescribed differing rates of losh finance for the seme crop in regard to small and marginal farmers is very curious. Excepting one or two crops the rates considered by the Agency are lower than the D.C.C. Bank losh rates. The Bank has different rates for sugarcane for rateon crop, Adsali crop etc. and only has been given above. By and large, therefore, the progress reports of the Agency fail to give any relevant and worthwhile information about the schemes. Thus, for want of any clearcut assessment of physical schievement of various developmental assistance schemes some alternative method needs to be looked into. The only other immediately available source is the comparison of budgetary sanctions and actual disbursement under each head. Table 18 gives budget provision and actual expenditure (subsidy, risk fund and grants etc.) under very broad heads for the three years 1970-71, 1971-72 and 1972-73 in respect of SFDA and MFAL separately. The Agency administered a composite project and hence administration sanctions and expenditure has been shown on the SFDA accounts only. In view of the comparatively short period of functioning of the Agency during 1970-71, the large surplus balance over the budgeted expenditure is somewhat natural. While the budgetary sanctions were separate for SFDA and MFAL, the accounts of expenditure do not seem to have been maintained separately and to that extent the surplus balance over the budgeted expenditure would be very much larger at Rs.344165 than the SFDA accounts will show. Leaving aside sanctioned

Table 18: Budget Provision and Expenditure (Subsidy and Risk Fund etc.) under SFDA and MFAL Project I Chiplun

	Budget	Provision	<b>1</b>		Expenditu	ıre	
Itams	1970-71	1971-72	1972-73	1970-71	1971-72	1972-73	<b></b>
Administration 3.F.D.A.	83250	50000	300000	27286.51	129931.70	129449.89	
Agriculture	75000	707000	1400000	725.00	179053.48	317455.77	
Minor Irrigation	-	239000	950000	-	48887.50	171922.51	
Animal husbandry	118750	500000	600000	49725.00		186088.11	
Strengthening of Cooperatives	31500	250000	300000	2598.51	50734.41	130971.89	
Bench Mark Survey' Marketing and Stores	-	-	20000 120000	_	<b>-</b>	-	
Rural Artisans		_	120000	-	22575.55	33834.15	
Custom Service	-	-	_	-	~~,,,,,,,,	62500.00	
Subsidiary occupation	-	<b>=</b>	_		<b>-</b>	25000.00	
					-,-,-,-		•
	308500	1746000	3690000	80335.02	608188.12	1047222.32	
M.F.A.L.					·		•
Agricultural	45000	448300	550000	- ,	105295.29		
Minor Irrigotion	20000	220080	540000	-	31863.00		
Animel Husbendry	51000	152620	500000	-	95250.15		
Strengthening of Cooperative Societies Rural Works	_	122000 100000	165000 900000	:	11560.00		
Bench Mark Survey	_	100000	10000		100000.00	- -	
Administration	-	500	-	-	80.00	232.00	
And the second of the second o	116000	1043500	2665000	·	344048.44	953804.06	-

and actual expenditure on administration, it will be seen that the expenditure on developmental schemes was barely 15.5 per cent of budgetary senctions. This has been arrived at by taking SFDA and MFAL accounts together as no expenditure is accounted on MFAL accounts.

In the subsequent two years 1971-72 and 1972-73 the progress was slightly better but not very encouraging. The total budgetery senctions inclusive of administration were very much larger for both the years. In spite of sufficient allotment of funds the agency was unable to make much headway and the disbursement for 1971-72 was barely 28 per cent and 33 per cent of senctioned expenditure for SFDA and MFAL respectively. Budgetery sanctions for 1972-73 were little more than twice for the year 1971-72 and the actual disbursement had come down to barely 25 per cent for SFDA. Actual disbursement in 1972-73 was about 36 per cent for NFAL. The most important items of dispursement, in respect of both small farmers and marginal farmers, were milch cattle, intensive cultivation and minor irrigation schemes. Subsidy in respect of intensive cultivation is to be continued in respect of marginal farmers only. In respect of small farmers subsidy was to be granted for the initial two years only and no subsidy on inputs for intensive cultivation was allowable in the subsequent years. The success of this particular scheme, therefore, will have to be judged after the subsidy has been stopped.

The project report made a provision of hs. 5 lacs for granting interest free loans to small and marginal farmers who are non-members of the primary co-operative credit societies, to become members of such societies in the project area. Provisions against 'strangthening of Co-operatives' for the three years include subsidies to co-operative institutions and also the provision of loans to non-members to become members of the primary co-operative credit societies. Disbursament of such loans to non-members was reported for 1971-72 and 1972-73 only and the relevant information for the two years is given below:

	•	1971	-72	1972-73			
		No. of farmers	Amount (ks.)	No. of formers	Amount (Rs.)		
	Small Farmers	<u> </u>		<del></del> .			
1. 2. 3. 4.	Retnagiri district Mahebaleshwar Jawali Patan Total	89 128 <u>48</u> 269	80 1780 2560 960 5380	311 123 924 95 1453	8000 2460 18480 1900 30840		
	Marginal Far	mers					
1.	Chiplun Paten	32 546	640 10920	841	_ 16820		
	Total	578	11560	841	16820		

The above information needs to be compared with the identified small, marginal and large and medium farmers and the total membership, of these respective categories of farmers, of primary co-operative credit societies. Some information in respect of these is available regarding Patan, Jawali and Mahabaleshwar talukas only and the same is presented below.

. •	Peten	Jawali	Mahabaleshwer
Marginal farmers identified Small farmers identified Other farmers (large etc.)	32560 5603 1611	8475 9129 N.A.	1577 1474 N.A.
Total farmers	39774	17604	3051
Members of primary credit Societies (1971-72)	23433	10705	2195

It would be fair enough to assume that most of the large farmers and majority of the small farmers are likely to be members of the primary credit societies. If this, in fact, holds good then the problem of non-membership really relates to marginal farmers. Out of the total membership of co-operatives in Patan taluka small and large farmers would account for nearly 7214 members leaving a balance of 16219 members of co-operative credit societies to marginal farmers. Thus, it means that around 16341 marginal farmers are not members of the co-operative credit societies in Patan taluka. Against this number of non-members (16341) the loans were advanced to 1387 farmers in the two years to become members of the credit societies. In the two-year period, therefore, the Agency had not been able to enrol even 10 per cent of non-members as members. If co-operative credit facility is to reach the poorer farmers these non-member marginal farmers need to be enrolled as members in larger numbers. The same would be more or less true in respect of Jawali and Mahabaleshwar talukas.

As a result of very poor progress of grenting loens to non-members to become members of primary co-operative credit societies, the Agency was left with a balence of Rs.2,65,220 and Rs. 1,55,020 out of the budget provisions under SFDA and MFAL respectively. In the Agency meeting of 30th Jenuary 1973, the project officer came out with a proposal to make the same loan facility available to non-members of co-operative suger factories, within the project area, to become members. As per the Reserve Bank's scheme, the District Central Co-operative Bank can advance three-fourth amount of the Share Value by way of Medium Term Loan for purchase of such sheres, the balance of one-fourth Share Value being met by the cultivator. The Agency proposal was that this balance of one-fourth Share Value be advanced as interest free loan to identified small and marginal farmers who intend to cultivate sugarcane and thus desire to become members of the Co-operative Sugar Factory. In support of the proposal the Agency has cited that the Government of India has already accorded its sanction to MFAL Project, Goa, in activising its programme of enrolment of membership of Sugar Factory within the project area. The Agency, further, states that the D.C.C. Banks at Ratnegiri and Satara have agreed to such an arrangement and are willing to grent loan of three-fourth Share Value to these cultivators. There are three Co-operative Sugar Factories at Chiplun, Marali (Paten taluka) and Bhuinj (Wai taluka) within the jurisdiction of the SFDA-MFAL Project Chiplun. While Bhuinj Sugar Factory is outside the jurisdiction of the project, Jawali and Mahabeleshwar talukes of the project are included in the area of operation of the said Sugar Factory. The total interest free loan amount that will be required is as below.

1) Chiplum Sugar Factory

Rs. 2,50,000

2)	Chiplun Sugar Marali (Patan) Bhuinj		Rs. Rs. Rs.	2,50,000 4,50,000 75,000
,	Total	•		7.75.000

The Agency in its 15th meeting of 30th Jenuary 1973 accepted the proposal by its Resolution 216 and agreed that the Government of India should be requested to extend the facility of giving 25 per cent of the value of the share as interest free medium term loan to small and marginal farmers in order to enrol the said farmers as members of the Co-operative Sugar Factory.

The above proposition arose as a result of the surplus arising out of earmarked funds for granting loans to nonmembers to become members of the primary credit co-operatives. Diverting these funds to such other related activities may be quite legitimate but it at the same time underlines the Agency's failure to enrol non-members as members of primary credit societies. Further, the surplus left with the Agency is around As. 4.0 lacs and the interest free loan required is Ms. 7.75 lacs i.e. Rs. 3.75 lacs more than the available surplus. These additional funds will have to be provided for in the future provisions and to that extent the funds available for new membership of primary credit co-operatives might get depleted and this might adversely affect the fresh enrolment to primaries which is already very poor. Again, the manner in which the small and marginal farmers have been identified on the basis of Village Form &A, the benefits may accrue to already well off farmers and/or families to the detriment of the poorer ones for whom the project is to be implemented. The 'Master Lists' of small and marginal farmers are going to be scrutinized and corrected by taking into consideration the 'operational' land holding of the family rather than as was done by using the Village Form &A. If the loans for Sugar Factory shares are granted on the basis of existing 'Master Lists' there could be unnecessary complications when the lists get corrected.

As the disbursement progresses from year to year the

As the disbursement progresses from year to year the proportionate share of expenses on administration goes down. The provision, for the four years of project period, was Rs. 5.50 lacs and Rs. 1.00 lac for administration under SFDA and MFAL projects. As a proportion of total outlay (SFDA plus MFAL) of Rs. 254.73 lacs the share of administrative expenditure is around 2.55 per cent and for the three years 1970-71, 1971-72 and 1972-73 the same works out at 33.9 per cent, 13.6 per cent and 6.8 per cent of actual expenditure for the respective years. For the three-year period administrative expenditure works out to be 9.8 per cent of total expenditure. If this is ever going to be around the proposed level of 2.55 per cent of total outlay the progress in the subsequent three years (project has been extended upto 1975-76) will have to be of a much higher order than hitherto reported.

# Target Achievement ending March 1973

As stated earlier the Agency in its 16th meeting held on 30th April 1973 took a review of its achievement since inception and distributed the balance of target for the remaining three-year period ending March 1976. Table 19 gives the target as per project report and the achievement ending March 1973, both in respect of SFDA and MFAL.

How various achievement figures have been arrived at is difficult to comprehend. When the Agency was requested to give the Block-wise details of achievement these were not readily available nor was the Agency able to produce the figures of farmers who had achieved this target. Besides the

Table 19: Target as per Project Report and Achievement upto 31-3-1973 and Distribution for the Remaining Period 1973-74, 1974-75, 1975-76

r. o. Item	Totel es per ject R	terget Pro- eport		get eved	. В	alance	Tar distri	get buted	• =====	Bala	nce	- <b></b>
				i.		٠.	1973	-74	1974	-75	1975	-76
	S.F.	M.F.	S.F.	M.F.	S.F.	M.F.	3.F.	M.F.	3.F.	M.F.	S.F.	M.F.
.) Agriculture	,		: - <del>-</del>					~ + .~				<del></del>
a) Land Development b) Land Levelling	10000	2000)	285	116	10715	2014	3000	600	3890	714	3905	700
c) Demonstration Plot d) Horticulture e) Int. Cultivation	*	*	340	80	181	; <del>-</del>	250 1775	125 2	250	125	250	125
f) Plough Bullocks	2000	16200 200	433 <i>5</i> 347	10225	111865 1653	5975 184	500	60	No so 300	heme is	continu 653	ed. 64
Animal Husbandry									•			
a) Milch Cattle b) Poultry Unit c) Sheep and Goat (Scheme is recently	5000 2000	1000 1500 1000	1120 74 1	614 15 4	3880 1926	386 1485 996	1500 • 365 10	350 210 200	1200	26 600 400	1130 761	675 396
d) Cattle Sheds	2000 2000	300	2	-	1998		680	80	718	•	600	-
a) New Wells b) Catch Wells c) Repairs to Old Well d) Lift Irrigation	1500 500 1000 . 10	300 50 100 5	135 22	36 6	1365 500 978 10	265 50 94	300 150 180 10	100 35 30	565 200 500	85 10 50	500 150 478	80 5 44
e) Pump sets f) Konkan Bandhara	3000	200 10	125	<b>5</b> 0	2875	15Ó 10	700	60 10	1100	_50	1075	40

<sup>\*</sup> No target is given in Project Report.

above requested break-up, the meaning of the word 'Achievement' was itself not very clear to the Agency. In normal usage 'Achievement' meens completion, accomplishment or thing accomplished. Whether achievement, therefore, meant that land levelling and development has been completed on 285 acres and 116 acres in respect of small and marginal farmers is not at all clear. Or did the achievement have a limited meaning that loan disbursement for land levelling and development was for the above mentioned area? The Agency furnishes a progress report to its committee meeting and gives the details of its work in its annual report. These two sources may be tried to arrive at the figures. The necessary details from both the sources are given below:

## Land Levelling and Development

Year ending	SFDA		MFAL		
31st March	No. of farmers who lifted loan	Amount disbursed (Rs.)	No. of farmers who lifted loan	Amount disbursed (Rs.)	
1970-71 1971-72 1972-73	215 166	2900 135850 129272	1 <b>27</b> 143	71825 131725	
Total ending Merch 1973	385	268022	270	203550	
Cumulative Total as furnished to 16th Agency meeting of 30th April 1973	356	259122	255	188150	

Agancy meeting of 30th April 1973 356 259122 255 188150

The difference in the number of farmers in the cumulative total and the year-wise total arises as a result of 29 farmers (the actual difference under SFDA) having lifted the two instalments of the loan in two finencial years. The same is the case in respect of 15 farmers under MFAL. However, this does not preclude the possibility of quite a few farmers having lifted both the instalments of the loan in the same finencial year. Why the difference in the amount disbursed occurs, is not possible to explain but is of little consequence for the purpose. The achievement under SFDA in respect of land development is 285 acres and the meximum loan amount, assuming all the loan amount as cost of development, admissible for subsidy will be Rs. 1,42,500 calculated at the Agency's prescribed rate of Rs. 500 per acre. As stated under Progress of the Scheme, the banks have granted loans much beyond this rate per acre but the admissible loan amount for subsidy will be as given above. It may be assumed, for the sake of convenience, that in respect of these 285 acres the banks did actually follow the prescribed rate of finance of Rs. 500 per acre and the loan disbursed would, therefore, amount to Rs. 1,42,500, making all of this loan amount admissible for subsidy. The total loan disbursement for land levelling and development is reported at Rs. 2,59,122 (lower of the two amounts given above being accepted for the purpose) and excluding the amount for completed land development (i.e. Rs. 1,42,500) the balence of Rs. 1,16,622 happens to be on account of incomplete area in which the work is in progress. It is difficult to assume that all this amount will be in respect of the first instalment only. There are bound to be some cases where the farmers have lifted the second instalment of the loan after the utilization certificate for the

first instalment was obtained. Once again it may be assumed that around 50 per cent of the balance amount of incomplete works, had submitted the utilization certificate in respect of first instalment of the loan. The Agency pays the prescribed subsidy (25 per cent) for first and second instalments of the loan after getting utilization certificate for each instalment separately. Even in respect of completed works it may be assumed that subsidy has been paid in respect of first instalment only and not for the total cost of the works. With the above assumptions the following amounts will be eligible for subsidy.

	Amount eligible for subsidy	Subsidy amount @ 25% of cost	Actual subsidy paid @ 25%
A Company of the Comp	Rs.	Rs.	of cost Rs.
Completed works on 285 acres - 2 of loan amount	71250	17812	-
50% of amount of incomplete			
works in progress	58311	14578	
0-4-3	3005/3		
Total	129561	32390	29936

Even with all the assumptions made in favour of the Agency the amount of subsidy due is larger than actually paid by end of March 1973. The actual subsidy paid has been assumed to be on first instalment only which is not likely to be a fact unless one is to accept that the utilization certificate for all the 285 acres of claimed achievement were submitted very late in March 1973 and hence could not be disposed of and subsidy paid. It, therefore, means that quite some amount of subsidy actually paid must be for completed work and the extent of that amount is not possible to guess. The above consideration is based on the assumption that all the loans were for land levelling where the rate of loan per acre has been prescribed at Rs. 500. Actually the achievement consists of area under land levelling and land development. The per acre rate of finance prescribed for land development was Rs. 250 and if all the loans are assumed to be for land development it does not help solve the riddle of achievement claimed. The amount of subsidy paid by end of March 1973 is Rs. 29936 and hence the amount of loan eligible for subsidy may be accepted as Rs. 1,19,744 (subsidy being 25 per cent of cost). Since 285 acres is the claimed achievement the cost of development of this area will be Rs. 71250, the cost being calculated at the admissible rate of Rs. 250 per acre. The balance of Rs. 47494 will then be the amount of admissible loan for incomplete work in progress. If it is assumed that subsidy in respect of completed works has been paid on the first instalment of loan amount i.e. one-half of the cost and in respect of incomplete works on about 50 per cent of the admissible amount subsidy has been paid, the results would be as below.

	Amount eligible for subsidy Rs.	Subsidy amount @ 25% of cost	Actual subsidy @ 25% of cost Rs.
Completed work on 285 acres - 2 of loan amount	35,625	8,906	<b>-</b> ,
50% amount of incomplete work in progress	23,747	5,937	•
Total	59,372	14,843	29,936

The amount of subsidy paid is twice the subsidy calculated above. Even if subsidy for completed works be allowed on the total cost of Rs. 71,250 the total amount of subsidy due will increase by another Rs. 8,906 to Rs.23,749 and even this will be less by about Rs. 6,200 than the actual subsidy paid.

All the above exercise does not lead us to any clear conclusions. The claimed achievement is of land levelling and land development put together and in view of two scales of finance per acre prescribed it is impossible to arrive at the area figures. However, the above calculations do suggest that there is something amiss and the claim of achievement of 285 acres could be of doubtful veracity.

Alternate manner to arrive at the possibility is through the number of cultivators. In a note, submitted to 18th Agency meeting of 27th November 1973, the project officer stated that "land levelling or the land development, in most cases, is far less than one acre i.e. it is generally 15 to 20 gunthas of land only". If this assessment of the Project Officer is correct then to achieve 285 acres of land levelling and/or land development the number of cultivators would be 570, each cultivator having developed and/or lavelled 20 gunthas or one-half acre of land. This estimated figure is more by 214 farmers than to whom the loan has been disbursed. All this refers to small farmers and achievement in respect of marginal farmers under land levelling and development is not any different. If only the Agency had bothered to keep the progress of land levelling and land development separately in the progress report the above guesswork could have been saved and the achievement claimed judged in a more meaningful way.

The schievement of area under 'Intensive Cultivation' has been claimed at 4335 acres and 10225 acres for SFDA and MFAL respectively. In relation to the target the achievement in respect of SFDA will be barely 4.0 per cent and extremely poor. Marginal farmers seem to have responded very much better the achievement being 63.1 per cent of target. Such a wide difference in achievement of small and marginal farmers is a mystery, especially when the small farmers who are supposedly potentially viable and definitely better endowed with resources should have responded so poorly. Here too, the claimed achievement is of doubtful veracity. The following information from the progress report ending 31st March 1973 may be able to help to assess the claimed achievement.

Farmers participating	Area achieved (acres)	Amount of losn disbursed (Rs.)	Subsidy amount paid (Rs.)		
SFDA - 7189	4335	15,12,526	1,01,626		
MFAL - 6570	10225	6,20,560	2,06,576		

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Remembering that the smell cultivator has larger land resources at his command then the marginal farmer, it is quite interesting to know that the average area under intensive cultivation happens to be barely 25 gunthas for small farmer whereas it should be 1-22 acres for marginal farmer. Between the two sets of farmers, the marginal farmers' ability to bear risk will, naturally, be less than the small farmer and that alone seems to have goaded the marginal farmer into fatalism that he had very little to lose, after all never having had anything much to lose, by running into the gamble of intensive cultivation and losing. The achievement if really true is fantastic in respect of marginal farmers. For a marginal fermer to allot almost 16 per cent of the operated area (the ceiling for marginal farmer, as decided by the Agency, was 10.0 acres of 'Warkas' land) is, in fact, not believable and certainly needs a second look even if the area achieved is the cumulative total for the two years 1971-72 and 1972-73.

Another aspect of intensive cultivation may be seen through per acre loan finance and subsidy paid. The per acre loan disbursed to small farmers works out to Rs. 348.90 and the subsidy on the same at Rs. 23.20 only. In case of marginal farmers the per acre loan disbursed and subsidy paid works out at Rs. 60.60 and Rs. 20.20 respectively. Even if the subsidy rates on material input (seed, fertilizers, insecticides and pesticides) were 25 per cent and 33 1/3 per cent for small and marginal farmers respectively it is difficult to understand that the proportionate subsidy should work out at barely 7.0 per cent of average per acre finance for small farmers and at 33 1/3 per cent for marginal farmers. The question, therefore, arises as to what were the crops for which subsidy was paid to small and marginal farmers, and how is it that all the loan disbursed to marginal farmers, was entitled to subsidy. Since the Agency does not give any cropwise figures of achievement it is impossible to know it. Below are given the per acre rates of finance for various crops prescribed by the D.C.C. Bank, Satara.

	Crop	Cash	Kind	Total	Full dose	.1/2 .dose	1/3 dose	
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
1.	HYV Paddy Kharif	55	275	330	a) 68.75 b) 91.66		22.92 30.55	
2.	HYV Paddy Summer*	50	<b>275</b>	325	a) 68.75 b) 91.66	34.37 45.83	22.92 30.55	
3.	HYV Jowar	60	235	295	a) 58.75 b) 78.33		19.58 26.11	
4.	Oilseeds	35	95	130	a) 23.75 b) 31.66	11.87 15.83	7.92 10.55	
5.	Local Crop							
	(i) Paddy	100	50	150	a) 12.50 b) 16.66		4.17 5.55	
	(ii) Jowar	100	50	150	a) 12.50 b) 16.66	6.25 8.33	4.17 5.55	
6.	Sugarcane (i)	440	960	1400	a)240.00 b)320.00			
	(ii)	400	800	1200	a)200.00 b)266.66	100.00	66.67 88.88	

<sup>\*</sup>Additional loan of Rs.75 where irrigation is by oil engine

and pump.

(a) Small - 25% subsidy on kind portion only.

(b) Marginal - 33 1/3% subsidy on kind portion only.

Subsidy allowable for various crops at full dose etc. has been worked out above. The average subsidy per acre calculated above is the result of the subsidy paid on various crops. Even then it is clear that majority of the farmers did not take up the full package of fertilizers, insecticides and pesticides. In fact, quite a large number might have taken to one-third dose and only on that basis the subsidy figures can be matched with the actual average per acre payment. But this would raise the question of quantum of per acre finance which will be high in respect of small farmers and vary low in respect of marginal farmers. All of this raises doubts about the area claimed as achievement. The Agency in its annual report for the year 1971-72 states that the maximum subsidy paid to any small or marginal farmer was Rs. 55. Even this figure must have been on account of sugarcane which gets maximum subsidy amongst all the crops. sugarcane which gets maximum subsidy amongst all the crops. Giving the figure of maximum benefit from subsidy is, in fact, pointless. The better course for the Agency would have been to give the crop-wise average subsidy paid and the area under the crops or at least the average subsidy per acre for all the crops and the area under these crops.

Other items of achievement need not be looked into other items of achievement need not be looked into for details. In respect of these items no alternative calculations can be undertaken to check the claim. One fact stands out that the achievement is quite poor in relation to project target for all the items. The balance of unachieved portion of the target has been distributed over the three-year-period ending March 1976. Considering the achievement at the end of three years i.e. ending March 1973, it raises doubts if the project target or something nearabout that is likely to be achieved.

# Progress of the Programme in Jatara District

Earlier section dealt with the progress of the schemes in the project area in general terms. A little more detailed information, in respect of 'long term' loans was collected in Satara district as the survey area referred to Patan taluka of this district. Detailed information in respect of 'medium term' loans for milch animals is not given here specifically because the loan sanctioned materialises into proposed investment the moment the milch animal is purchased. Since the purchase of milch animals is supervised by a duly constituted committee there is, almost, no chance of frittering away the funds. The cultivator in these cases is not paid cash but is asked to purchase an animal of his choice within the conditions laid down by the bank' and the Agency. In case of long term loans the amount is paid to the borrower in two instalments, the second instalment being paid only after the first instalment has been properly utilized for the proposed work and utilization certificate produced to that effect from the concerned authority. The time lag between the first and the second instalment would be important if the benefits of the proposed investment are to be realised by the cultivators early.

Table 20 gives the actual lifting of long term loans by small and marginal farmers in the three talukes, Mahabaleshwar, Jawali and Patan, of Satara district. As stated earlier marginal farmers in Mahabaleshwar and Jawali talukas were brought within the purview of the Small Farmers Scheme and the achievement needs to be considered in relation to total cultivators eligible to derive benefits of the scheme. The total number of farmers who have lifted at least the first instalment of the loan is very low. This disbursement

Table 20 : Purposevise Lifting of Loans by Small and Marginal Farmers since the Inception of the Scheme to End of November 1973

Teluka -	Mahab	aleshwar	- SFDA	JΘ	oli - Sr	'DA	Pot	an - SFD	A	P	etan - M	FAL	
Item	No.of loans	Full psyment on 1st instal- ment	ment	No.of loans	Full payment on 1st instal- ment	2nd instal- ment			2nd instal- ment	No.of loans			
New Wells	35	_	14	48		22	47	_	32	42		24	
Repairs to Old Wells	1	-	_	16		6	12		5	9	•	6	
Oil Engines	) )   <del>=</del>	<u>-</u> .	-	12	12	-	9	. 9	_	17	17	_	
Electric Motor etc.	2	2	-	6	6		3	3	-	6	6		&
Water supply pipe-line etc.	_	♥ .		31	2	18	23	2	9	41	5	26	•
Land Levelling	5	-	3	13	-	6	16	*	6	42	-	18	
Land Improvement	44	-	33	47	. ÷	29	76	. ••	25	222	-	89	
Total	87	2	50	173	20	81	186	14	<del>-</del>	379	28	163	
Small or Marginal Farmers identified	-	1474			9129			5608			32560		
Smell and Marginal Farmers entitled to benefit in view of Government of India' fresh senction	- <b>-</b> -	3051	<b></b>		17604			5608		3	2560	·	

has taken place in a total period of two years and eight months, beginning from March 1971 to end of November 1973 and, therefore, looks very poor not only in relation to total number of eligible farmers only but in relation to time required for the disbursement. It may, therefore, be deduced that the programme has not enthused the farmers to undertake some badly needed invastment in land in spite of the incentive in the form of subsidy ranging from 25 to 33 1/3 per cent on cost of such investment. The Table also gives information regarding lifting of second instalment of the loan. The proportion of lifting of second instalment was nearly 53 per cent in Mahabaleshwar and Jawali and around 45 per cent and 46 per cent in Patan in respect of small and marginal farmers respectively. This lifting of second instalment, however, does not give us the time lag between the first and the second instalment unless monthwise information regarding disbursement of loan is available.

Table 21 gives the monthwise disbursement (first instalment only) of long term loans in respect of small farmers in three talukas and marginal farmers in Patan taluka. In all the talukas disbursement has been concentrated during the months of October 1972 to December 1972 and again during the months of January 1973 and June 1973. Barring the above two periods lifting of loans in other months was quite insignificant. Mainly there was no worthwhile lifting of loans during July and October-November, of both the years the period corresponding to kharif season the more important of the two seasons kharif and rabi. While the project started functioning in 1970-71 very few loans were lifted during that year and this might be because of the delayed start of the project. In terms of the financial year (April-March) the second year of the project i.e. 1971-72 accounts for the larger number. During the third year 1972-73 the disbursement had gone down but seems to have picked up around June 1973 i.e. in the fourth year. Loans sanctioned by Maharashtra State

•	Loans sanctioned	Advanced	Amount sanctioned Rs.	Advanced Rs.
SFDA			**	
1970-71 1971-72 1972-73 Total	45 322 179 546	28 214 169 411	64,250 10,57,975 7,34,625 18,56,850	20,275 5,91,250 5,12,325 11,24,850
MFAL		•	• •	
1970-71 1971-72 1972-73 Total	38 246 165 449	28 152 158 338	64,000 6,97,250 4,78,250 11,69,500	2,300 3,31,250 3,62,150 6,95,700

The figures refer to the financial years 1970-71 to 1972-73. As said earlier the number of loans lifted has gone down in the third year 1972-73 and so also the amount of loan sanctioned and advanced. The main reasons for not lifting the loans, in spite of these being sanctioned by the bank, were (i) Applicants had refused in writing to take the loan, and (ii) A number of applicants were not submitting necessary documentary evidence, which was necessary to prove

Table 21: Monthwise Distribution of Loan (Long Term) from Inception of the Scheme to End of November 1973 (Small and Marginal Farmers)

Month and year of loan issue	New wells	hepsirs to old well	Electric motor etc.	Land levelling	Lend Improve- ment
			. <del></del> -		
farch 1971	-	-	-	-	2
April 1971	-	· <del>-</del>	, <del>-</del>	-	-
16 <b>y 1971</b>	-	÷ .	<del>-</del>	1	-
June 1971	_	<b>_</b> `	-	-	1
July 1971	2	-	-	<b>L</b>	4
August 1971	-			-	-
eptember 1971	_	<u> </u>	_	, <del></del>	<del>-</del>
October 1971	1	-	_	_	i
November 1971	1	_	-	· -	ī
December 1971	2	_	<b>-</b> 1	<b>-</b> .	3
_					•
January 1972	2		.=		2
ebruary 1972	4	-		-	11
1972 (srch	4 2 2	-	-	1	11
April - 1972	2	_	-	-	<del>.</del> .
lay 1972	_	-	-	· <del>-</del>	-
June, 1972	-	-	-	2	3
July 1972		-	-	-	-
August 1972	-	-	<u> </u>	<b>.</b> _	-
September 1972	-	-		-	-
October 1972	_	-	-	-	-
November 1972	_		-	-	-
December 1972	<b>~</b>		<b>-</b>	-	•
January 1973	_	. 🖚	<b>÷</b> .	<b>-</b> .	
February 1973	-	<del>-</del>	-	<u>-</u>	2
March 19 <b>73</b>		-	, <del>-</del>	1	=
April 1973	1	-	-	-	1
Ma <b>v 1973</b>	-	-	<u> </u>		-
June 1973	16	1	2	-	1 .
July 1973	2	-	-	-	1
August 1973	-		_	-	•
September 1973		_	-	_	-
October 1973	٠ ـ_٠	<b></b> '	_	_	• ,
November 1973	-		-	-	-
				:	
Total	35	. 1	2	.5	44
		·		•	• •
Identified Smell Marginal farmers entitled to reca benefits			3051		. 2

• <u>•</u>

Table 21 : (continued)

				Jaol:	i - SFI	DA		
Month and year of loan issue	1, 1 <b>3</b> 3	New wells	Repairs to old wall	Oil engine	tric	Water supply, Pipe- line etc.	Land Level- ling	Land Improve ment
Merch April May June July August September October	1971	2	1	-			-	5
November December	1971 1971	<u>-</u>	ī	2	-	2	ī	2
November -	1972 1972 1972 1972 1972 1972 1972 1972	4124272	1	2133	3 (1 (14 ) 1 )	2442-431	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17232 - 121
March Epřil May June July	1973 1973 1973 1973 1973 1973 1973 1973	14	3			1 1 4 2	1 1 2 3 2	131 11 14 13
Total		48	16	12	- <del></del> -	31	13	 47
Identified Marginal l entitled d bearfits	farmor	S		1	<b></b> 7604			

Table 21 : (continued)

				Pet	en - S	FDA		
Month and year of loan issue		New wells	nepsirs to old well	Oil engine		Water Supply, Pipe- line etc.	Lend Level- ling	Land Improva- ment
Manah								_
April May June July August September October November	1971 1971 1971 1971 1971 1971 1971 1971	8		- - - - - -	-		1	2 1 1 1 9
February March April May June July August September October November	1972 1972 1972 1972 1972 1972 1972 1972	4642	2	2 - 2	2	2 4 2 1 1 2	1	517415
February March April May June July August September October	1973 1973 1973 1973 1973 1973 1973 1973	15	1	31		7	1 2 1 6 - 1 2	63 - 20 29
Total		47	12	9	3	23	16	76
Identified Marginal f entitled t benefits	ermer	<b>3</b>	<b>*</b> • • •		5608	<b></b>		

Table 21 : (continued)

	-, - , -		Patar	1 - MF/	 AL		<del>-</del>
Month and year of loan issue	New wells	Repairs to old well	011 engine	tric	Water Supply, Pipe- line etc.	Land Level- ling	Land Improva- ment
Merch 1971 April 1971 May 1971 June 1971 July 1971 August 1971 October 1971 November 1971 December 1971	17	-	1		3 2	3	8 2 6
January 1972 February 1972 March 1972 April 1972 June 1972 July 1972 August 1972 October 1972 November 1972 December 1972	2 2 1 3 1	1 2 - 1	1 3 1	1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2241612111	2 14 29 7 1 21 - 2
January 1973 February 1973 March 1973 April 1973 June 1973 July 1973 August 1973 September 1973 November 1973	1 3	3	712	1	12	6 3 10 2	3 16 12 2 2 53 7 28
Total	42	9	17	6	41	42	222
Identified Small Marginal Farmers entitled to rec-	s	<del>-</del>	3:	2560		;	

benefits

their title to the land, in spite of repeated reminders. There were a few cases where the loan amount sanctioned by the bank was less than the applicant asked for. The lesser amount sanctioned was on account of inadequate security and in some cases on account of lower repayment capacity. The financing institutions made a few suggestions and explained the difficulties in sanctioning and disbursing loans as below.

- (i) Small farmers are not coming forward for loans of their own accord and constant persuasion is necessary even to collect applications. In view of this the bank and so also the B.D.O.s find it very difficult to complete the loan applications in all respects. Presently the Gramsevaks are asked to look after the collection of applications and at times individuals oblige the Gramsevak with an application but then reject the loan when sanctioned. The Gramsevak thus fulfils his target.
- (ii) Sometimes owing to inadequate security and inadequate repaying capacity the farmer cannot get loan for
  development purpose. In order to help such farmers, the
  bank would sanction and disburse loans to the estimated cost
  of development and the agency should make good to the bank
  the difference between the estimated cost of development and
  loan admissible as per Rules of the Bank.
- (iii) In order to lower the burden of repayment instalment the period of repayment should be 15 annual equated instalments in place of present 10 such instalments.

These suggestions have been made at various times during the Agency meeting but so far nothing has happened about it and the work continues as was previously the case.

Lifting of second instalment of the loans was 53 per cent in Mahabaleshwar and Jawali and 45 per cent and 46 per cent in Patan in regard to small and marginal farmers respectively. Major items for lifting of Second instalments were 'New Wells' and 'Land Improvement and Development' in respectively. Major items for lifting of second instalments were 'New Wells' and 'Land Improvement and Development' in all the three talukas. Detailed information in respect of lifting of first and second instalment was collected for small and marginal farmers in Patan and for small farmers in Mahabaleshwar and Jawali. Table 22 gives information regarding lifting of second instalments in respect of 'New Wells' for all the three talukas in respect of small and marginal farmers. In majority of the cases the work of digging 'New wells' was started well in advance of receiving the first instalment of the loan and hence comparatively short interval between lifting of first and the second instalments, the shortest and the longest interval, in respect of small farmers, being two months and 20 months respectively. What has been said in respect of the small farmers holds good for marginal farmers too, the work of digging new wells having been started quite in advance. The shortest interval between lifting the first and the second instalments was only a few days, both the instalments having been lifted in the same month and year. The longest interval happened to be eighteen months. The importance of time interval between the two instalments lies in the fact that the due date for repayment of first instalment of principal lies between thirteen and twenty-four months as per rule but the due date for all repayment having been fixed at 31st March it may not always be as far away as twenty-four months. If lifting of second instalment is delayed beyond the due date for repayment/before the investment has come up to workable of first instalment of principal, the fermer will have to

Lof first instalment of principal, the farmer will have to start repayment

-

Mehabalashwar - Small Fermars 2nd instalment January 1972 March 1972 April 1972 May 19**7**2 August 1973 September 1973 1st instalment October Total July 1971 October 1971 November 1971 Décember 1971 January 1972 February 1972 March 1972 April 1972 Total

Table 22 : Monthwise Distribution of 1st Instalment x 2nd Instalment in respect of 'New Wells' for Small and Marginal Farmers

r	Table 22:	(continued)	,
		•	

		10°	177 - 1										
lst instalm	ent	Nov. 1971	Feb. 1972	Мыr. 1972	Apr. 1972	May 1972	June 1972	July 1972	Jen. 1973	Mar. 1973	June 1973	July 1973	Tota
May 1	.971	1	<u>-</u>		_	1		-					2
December 1	971	-	-	2	•	-	-	-		-	<del>-</del>	-	. 2
Jenuery 1	972	-	1	2	-	-	=,	.=	: <b>-</b>	-;	1	· _	4
February 1	972	· -		<b>-</b> .	1	-		_	, <del>-</del>	-	-	-	1
Merch 1	972	_	•	-	-	1	1.	-	-	-	•	<del>.</del>	2
Aoril 1	972	-	-	- "	` ÷	-	· 2	-		٠.	<b>-</b>	_	2
Ma <b>y</b> 1	.9 <b>72</b>	-		<b>.</b> .		•	-	1	+	,	-	1	2
June 1	972	-	-	-	•	<b>;-</b>	1	2	· -	1	1	-	5
July 1	.972			•	: <b>-</b>		<b>-</b>	 	1	<b>&gt;</b>	-	1	2
Total		1	 1	4	1	2	4	3.	1	1	` 2	2	22
							, -						inued)

lst instelm		Feb. 1972	Mer. 1972	Apr. 1972	Mey	June	i	instal	ment				
		Feb. 1972		Apr. 1972	Mey	Juna							
December 1	021				1972	1972	July 1972	Feb. 1973	Mer. 1973	June 1973	0et. 1973	Nov. 1973	Totel
	-7/ <b>-</b>	2	1		4	-	_	-	-	-			7
January 1	972	1	1	1	1	<b>-</b>	-		-		-	· ·	4
February 1	1972		1	1	3	1	T -	; -	*		-	•••	6
March 1	.972	-	-	1	1	2	-	-	-	_		<u> </u>	4
April 1	.972		-	, <b>-</b> ′	, <u>-</u>	*	1	-	1			· _	2
June 1	1972	-		` =	•	-	-	· jì	·	-	-		1
Jenuary 1	973	, <b>-</b>	-	-	-	-	••		· _,	~ <b>1</b>	-	-	1
February 1	973	· <b>-</b>	-	-	-	_	-	··· - '	•	2		• •	2
viarch 1	.973	-	-	-	-		-	-	•		1	• • •	1
June 1	973	· · · -	•	_	***		-			3		1	4
		-	-	-		440 - 440 - 440	-	-		3	1	1	· -

		•	•			Pe	tan - N	lerginel	Fermer	<u>'s</u>		
lst insta							2nd in	nstalmer	nt			
LST INSTA	ilment	Feb. 1972	Mar. 1972	Apr. 1972	Mey 1972	June 1972	July 1972	Sept. 1972	June 1973	0ct. 1973	Nov. 1973	Tótel
lovember	1971	1	_	•		_	-	•		_		1
December	1971	2	2	1	1	1	-	-	-	-	,	7
January	1972	, . ·	-	. 🕳	2	-	•	`-	• -	-	-,	2
ebruary	1972		1	-	1	-	•	-	; <b>-</b>	· • .	-	2
ierch	1972	-	•	, -	<del>-</del> .	-			1	-	•	1
pril	1972		-	•	-	. <b>-</b>	1	1	2		-	4
lune	1972	-	-	٠, =	_	<b>~</b>		٠ _	1			1
ugust	1972	<del>-</del>	•		-		-		-	1		1
lenuary	1973	•		-			<i>:</i> _	· <u>-</u>	1		_ <b>-</b>	. 1
ebruery	1973	<del>-</del>		. =	•••	•		-	1	-	-	1
lunə	1973	٠, 🛥	-		-	-	_	-	_	_	- 3	3

stage and in many cases might run into overdues as a result of non-payment of dues and thus be unable to get the second instalment of the loan for completing the work undertaken.

Another main item, for which second instalment of loan was lifted, was 'Land Improvement and Development'. Table 23 gives information regarding lifting of second instalment for all the three talukas in respect of small farmers and in Patan taluka in respect of marginal farmers. The nature of work undertaken in majority of the cases was expected to, be completed in about three months period and that needs to be borne in mind when considering the interval between lifting of first and second instalment. The shortest and the longest interval between lifting of first and second instalments was two months and seventeen months respectively. In spite of the time required to complete such land improvement works not exceeding more than three or four months why lifting of second instalment required such a long interval was not inquired by the bank or the Agency either. Only in a few cases it was reported that second instalments were not lifted earlier or as yet because the necessary inspection of the work completed had not been carried out by the proper authority and hence utilization certificate relating to first instalment of the loan was not available and until such utilization certificate is produced second instalment of the loan is not released by the bank. As stated earlier in respect of 'New Wells' the importance of the interval between two instalments lies in the fact that the due date for repayment of first instalment of principal in respect of 'Land Development' works is as short as four months, irrespective of whether both the loan instalments have been lifted or not, and as long as fifteen months. Any delay in lifting the second instalment, beyond the maximum period, would run the farmer into overdues or he may have to pay such instalment out of current income to avoid overdues rather than out of the incremental income to avoid overdues from 1970-71 and only 4.8 per cent and 10.8 per cent and 10.9 per cent in 1972-73 from the previous year's 4.8 per cent in 1970-71 and only 4.8 per cent and 10.8 per cent of de

# Loan Disbursement and Identified Beneficiaries

Since inception the banks had disbursed loans (long term) to 87,173 and 186 small farmers, i.e. under SFDA, in Mahabaleshwar, Jawali and Patan talukas of Satara district upto end of November 1973. During the same period 379 marginal farmers in Patan taluka lifted the loans. Information about these farmers' land holding was available in respect of 64, 127 and 141 small farmers in Mahabaleshwar, Jawali and Patan talukas respectively and 270 marginal farmers in Patan. Small and marginal farmers in this project were identified on the basis of land holding as recorded in Village Form 8A and the information on land holdings in respect of these loanees pertains to the same.

Table 23: Monthwise Distribution of 1st Instalment x 2nd Instalment in respect of 'Land Improvement' for Small and Marginal Farmers

	<u>.</u>	 		· ·			Maheb	aleshwe	r - Sm	all Far	ners	<u> </u>				•
								2nd	instal	ment						
lst Inst	alment		May 1971	July 1971	Nov. 1971	Jan. 1972	Feb. 1972	Sept. 1972	Jan. 1973	Mar. 1973	Apr. 1973	June 1973	Aug. 1973	Nov. 1973	Totel .	
March	1971		. 2	F	-	<u> </u>	·         •	-	_		<b>.</b>	-	-	_	2	•
June	1971	,	1 . <del>1</del>	1	· .	-	-	-	<b>-</b> ',	. j. 🛋 /	, <b>-</b>	-	-	-	1	
July	1971		<b>.</b>	. =	. 1	1		-	<b>-</b> , ·	· · · · ·		1	1	-	4	
December	1971			_	· ·	1	1	1	-	_	-	-		-	3	
Jenuary	1972			.=	·	-	-	1		-	-		_		, ,1	80
February	1972		-	•	<b>→</b> <sup>N</sup>			6	_	-	2	1		<del>-</del>	9	
March	1972		- <del>-  </del> -	-	-	·	-	6	 . <del>-</del>	; 1	2	1	-	<b>.</b>	10	
June	1972		. <del>.</del>	` <b>.</b>		•	<del>-</del>	-	1		1	-	-	1	<b>3</b> ,	,
Totel			2	1	1	2	1	14	1	1	5	3	1	1	33	
		• .=				- · · · · · · · · · · · · · · · · · · ·		• • •	<b></b> .				• • • •	(conti	nued)	•

Table 23 : (continued)

iloal	_	Small.	Farmers.
OROTT	•	OWNITT	T. STIMETR.

										•	_			
							2nd	instal	nent		<b></b> -			
lst insta	elment	June 1971	Nov. 1971	Jen. 1972	Feb. 1972	Mar. 1972	Aug. 1972	Sept. 1972	Dec. 1972	Feb. 1973	Mar. 1973	June 1973	Aug. 1973	Total
April	1971	1	2	1	. 3	-	•	1	-	<del>.</del>	-	2		10
Мв <b>у</b>	1971	-	-	-	1	-	-		-	-	-	-	-	1.
June	1971	-	-	-	- ,	1	-	<b>-</b> ,	-,		-	-		1
December	1971	-	-	-	1	2	ì	-	-	Ŧ.	-	-	-	4
Jenuery	1972	-	<del>.</del>		-	-	-	-	-	1.	•		•	1
February	1972	-	-	-	<u></u>	2	1	•			. •	2	1	6
March	1972	•	-	-	.,	·, - '	-	-		. =	_	1	-	1
April	1972	-	-	-	<b>.</b> .	-	<b>-</b> '	-	1			2	-	3
Мау	1972	-	-				* * ;	· · ·	<u> -</u>			1	-	1
August	1972	_		-	-				<b>-</b>		1	-	<b>-</b> ,	1
Total	<del>-</del>	1	2 .	ì	5	5	2	1	1	1	1	8	1	29

Table 23 : (continued)

•				•		Paten -	Smøll Far	me <b>rs</b>		y		'	
			~			2nd	instalmen	t					
lst insta	lment	April 1972	May 1972	September 1972	Octobar 1972	Jenuary 1973	February 1973	June 1973	August 1973	September 1973	November 1973	Total	
December	1971	1	1	-	-	ì	i	2	1	2	_	9	
January	1972	-	-		-	-	-	3		-	• 1	_ 3 ·	
February	1972	-	-	-				1	-	-	<u>.</u> *	1	
Mərch	1972	•	_	1	2	-		1	· _	•	-	4	:
April	1972	-	-	- ·		-	•	1	2	-	1	4	88
Мәу	1972	-	-	-	-	<u>.</u>	-	-	1	•	_	1	
June	1972	. <b>-</b>	<b></b>	• ·	<b>-</b>	-	<del> </del>	• •••	1	-	2	3	
Total	·	. 1	1	1	2	1	1	8	5	2	3.	25	
				,				, -					

Table 23 : (continued)

pril 197					1971	1972	<b>T</b> )/~	1712	1972	1972	1972	1972	
	1 1	1	1	- ·	1,				.•		`-		
Ma <b>y 1</b> 97	1 -	-	1	_	-	<b>-</b> ·	-	_	<b>—</b> 1	-	_ '		
June 197	1 -	-	1	2	<del>-</del>	<del>-</del> "		1	-	•	•	-	
November 197	1 -	-		-	-	1	-	-	· -	-	_	-	
December 197	1 -	-	_		-	1	. =	-	-	-	-	•	
Jenuary 197	2 -	-	-		_	-	-	=	-	-	<u></u>	-	
February 197	2 -	_	-	-	-	- '	3	1	•	-	-	=	
Merch 197	2 -	-	-	•	<del>-</del> .		-	, I	=	-	, <del>-</del>	1	
April 197 May 197	ک <del></del>	-	-	-	-	-		-	1	1	-	•	
May 197 June 197	2 -	-	-	<del>-</del>	-	-	-	-	`***	1	Ţ	-	
		-	-	•	-	•	-		-	;	-	1	
August 197 January 197	~ -	_	-	-	-		<b>₹</b>	-	• .	*	-	•	
February 197	<b>1</b> -	Ξ		_	_	<b>-</b>	-	-	-	-	-	•	
Warch 197	<u> </u>	-	_	_		_	_	_	_	<u> </u>	-	•	
April 197	<u> </u>	_	_	_	_	_	_		<u>-</u>	_	. –		
June 197	á -	_	=	-	•	_	_	_	-	_	-	-	

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Jenuar February March May June August September October November Total 1973 1973 1973 1973 1973 1973 1973 1973	lst insta	lmänt					2nd	instelme	nt			
1971			Januar 1973	February 1973	March 1973	May 1973	June 1973	August 1973	September 1973	October 1973	November 1973	Total
Total 4 3 8 4 27 7 2 1 10 89	February	1971 1971 1971 1972 1972 1972 1972 1972	7-			3	1 - 271 - 5 - 2531	1 2 3			1	5 2
	Total		4	3 (1)	8	4	27	7	2	1	10	89

Table 23 : (continued)

Table 24: Statement showing Demand, Recovery and Overdues from 1970-71 to 1972-73 Schemewise and Purposewise in S.F.D.A. and M.F.A.L. area

Purpose		1970-71			1971-72			1972-73	
- ur poso	Demand	Recovery	Over- dues	Demand	Recovery	Overdues	Demand	Recovery	Overdues
S.F.D.A. Sch	ieme	<del>-</del>							
New Well Repairs to Old Well Oil Engine Electric Motor Lift Irrigation Scheme Land Levelling Land Development Other Purposes	8.37	8.37 8.37	-	2,641.09 612.60 1,263.47 254.23 1,116.07 229.38 4,484.50 43.40	2,500.19 496.36 1,263.47 254.23 910.56 229.38 4,434.36 43.40	140.90 116.24 - 205.51 - 50.14	782.96 15,151.17 900.90	22,731.48 1,981.22 4,925.15 1,740.56 11,800.62 372.10 11,349.50 900.90	8,427.76 701.18 1,890.30 1,376.48 7,565.72 410.86 3,801.67
•				10,644.74	10,131.95	512.79	79,975.50	55,801.53	24,173.97
M.F.A.L. Sch New Well Repeirs to Old Well Oil Engine Electric Motor Lift Irrigation Scheme Land Levelling Land Development Other Purposes	- - -	10.36 4.84 7.21		727.54 65.75 1,168.53 643.70 2,274.94 453.82 2,255.65 149.23	727.54 65.75 1,168.53 643.70 2,124.64 195.32 1,828.37 149.23	150.30 258.50 427.28	4,701.37 1,335.85 3,677.32 2,080.72 10,945.25 2,339.15 11,889.67 2,856.79	4,611.13 1,312.92 3,677.32 2,080.72 10,945.25 2,339.15 11,705.84 2,856.79	90.24 22.93 - - 183.83
Total	22.41	22.41		7,739.16	6,903.08	836.08	39,826.12	39,529.12	297.00

Table 25: Long Term Loan Disbursement to Small and Marginal Farmers according to Size of Holding

		,	Mahabales	hwar - 3	FDA			Ja	wali - S	FDA		
Size of holding (acres)	New wells	Repairs to old wells	Oil engine, Elec. motor	Water supply	Land develop- ment	Total	New wells	Repairs to old wells	Oil engine, Elec. motor	Water supply	Land develop- ment	Total
Less than 1.0	-	-	-	- 1	-	.=					1	<del></del>
1.0 to 2.4	-			-	-		-		-	1	2	3.
2.5 to 4.9	5				8	13	4	<b>1</b>	4	3	20	32
5.0 to 7.4	2	-	1	-	6	9	6	3	3	9 ,	14	3.5
7.5 to 9.9	3		-	_	9	12	4	1	• =	7	4	16
10.0 to 12.4	3	•		-	11	14	6	1	· •	1	4	12
12.5 to 14.9	-	-	1	<u>.</u> .	3	4	6	-	4	2	1	13
15.0 to 29.9	. 4			- ,	8	12	4	1	1	1	7	14
30.0 to 49.9	-		_	-	<del>-</del> .	_	-	•		1	-	1
50 and above	-	-	-	-	-	-	-	<b>-</b>				-
Potal	17		2		45	- 64 -	30	- <del>-</del>	12		53	127
	. •		<del>-</del>	- <b></b>							continued)	

			Patan -	SFDA	in the second of				Patan	- MFAL		, <del></del>
Size of holding (acres)	New wells	Repairs to old wells	Oil engine, Elec. motor	Water supply	Land develop- ment	Total	wells New	Repairs to old wells	Oil engine, Elec. motor	Water supply	Land develop- ment	Total
ess than 1.0		· . •	•		-				-	-	6	6
1.0 to 2.4	_		_	, <b>.</b> , '	4	** <b>4</b>	6	į	1	ં <b>૩</b>	42	53
2.5 to 4.9	<b>-</b> .	1	-	3	9	13	8	<b>4</b> .	6	6	73	97
5.0 to 7.4	3	.1.	2	7.	10	23	6	1	6	13	32	58
7.5 to 9.9	, 9	2	. 1	5¹.	7	24	5	1	-	, 9	14	29
0.0 to 12.4	3.	2	· 3	1	9	18	· . ·		1.	3	3	7
2.4 to 14.9	5	1 1	1	<b>-</b> 5	10	,17	3	: _	1		2	6
5.0 to 29.9	12	3	1	2	10	28	1	-	<b>-</b>	s <u>6</u>	6.	13
0.0 to 49.9	6	2	. j. <b>1</b>	# <u>*</u> * **	4	13	-	-	1	-	-	1
evoda bna O			. <b></b>	el • • ·		÷ <b>T</b>	- 1		<b>-</b>	The second	Var Takk	± 1
otal	38	12	9	18		141	29	7	16	40	178	270

Table 25 gives the long term loan disbursement according to size of holding. The floor and ceiling areas for small and marginal farmers have been given in Chapter II.

Warkas' land was the least productive land and the ceiling for this category of land for inclusion in the scheme was 30 acres and was the maximum amongst all the categories of land. The ceiling for the marginal farmer as per definition was 10 acres of 'Warkas' land or its equivalent in other categories of land. If it is assumed that all the holdings were of 'Warkas'land then any farmer who has a holding above this area will not be entitled to rece've benefits under the schemes. As the Table shows one small farmer in Jawali and five small farmers in Patan had been able to get loans under SFDA in spite of their holdings being beyond 30 acres. Actually 'Warkas' land in Satara district does not constitute a significant proportion of cultivable area. Had 'Warkas' been accounting for significant cultivable area of these three talukas then Maharashtra Agricultural Lands (Geilings of Holdings) Act, 1961, would have taken note of it and prescribed the ceiling in terms of 'Warkas' area as was done in respect of Ratnagiri district. 'As a result of non-prescription of ceilings in terms of 'Warkas' land in the abovementioned Act for any of these three talukas the ceiling limit of 30 acres of 'warkas' land for a small farmer becomes more or less inoperative such land being not in-existence in significant proportion. As a result of this the operative ceiling will be 22½ acres of unirrigated or dry land the next category of land. It is really not possible to visualise that majority of the holdings, which are constituted as a result of very many small plots, will be wholly of any given category of land. In fact, most of the holdings will be so mixed up that each category of land could be present in each holding and hence it is impossible to decide one way or the other. Unirrigated or dry 'land is the most predominant category and 22½ acres of such land will be th

The floor area for a small farmer has been prescribed at 2.5 acres of perennially irrigated land or its equivalent in other categories of land. As stated above the composition of these holdings in respect of categories of land is not known and even then any holding less than 2.5 acres just cannot be expected to secure benefits under SFDA specifically in Patan taluka where such holdings would be entitled to receive benefits under MFAL. There are four such cases in Patan taluka and their presence under SFDA cannot be explained. In respect of other two talukas, Mahabaleshwar and Jawali, marginal farmers as per Government of India's concession were entitled to receive benefits under SFDA and hence their presence in these talukas is quite natural.

What has been said above in respect of small farmers is true in respect of marginal farmers too, with the variation in the ceiling area which is lower at 10 acres of 'warkas' land. If this was to be an effective ceiling then 27 farmers

will not be entitled to receive benefits under MFAL. But as said earlier the effective ceiling in respect of marginal farmers too will be in terms of unirrigated or dry land and as per Agency's definition it is 72 acres. If this is made effective, for reasons stated earlier, quite a few of the twenty-nine farmers in the holding group 7.5 to 9.9 acres will not be entitled to receive benefits under MFAL.

Identification of small and marginal farmers was done on the individual holder basis as per VF-8A and not on the family basis. Table 25, therefore, represents the distribution of land holders and not families. As per fresh instruction, detailed out in Chapter II, the 'Master Lists' of small and marginal farmers are to be scrutinized and corrected and family operational holding will be the basis for such identification. As a result of the proposed scrutiny how many of the present loanees will be eligible to receive benefits from whichever of the schemes will have to await till the fresh 'Master Lists' of small and marginal farmers till the fresh 'Master Lists' of small and marginal farmers are available.

# Some Matters Relating Subsidy

The objective or goals of SFDA and MFAL are twofold: one is the economic efficiency of the activities financed by existing financial institutions and the other to serve the hitherto neglected section of the rural population. These can be referred to as pursuit of efficiency and equity. Subsidies and aids given to small and marginal farmers are either an equity measure or an efficiency and equity measure. The project report states, that since the economic base of the small and marginal farmers is narrow, they may not be able to bear the full burden of the schemes. Their economy cannot generate enough surplus. So, for sometime, they will find it difficult to meet the full cost of capital investment. Therefore, they will have to be propped up by subsidies which will help them also to obtain loans from institutional agencies by enabling them to meet the gap in security. How the subsidy is expected to meet the gap in security is not at all clear. Had that been the main purpose of the subsidy, in a few cases, at least, the loans not available on account of inadequate security should have been sanctioned and advanced by the banks. In a list of rejected loan applications (rejected by the bank and also by the farmers when much less funds were sanctioned than necessary) there are many instances of rejection on account of inadequate security. farmers when much less funds were sanctioned than necessary) there are many instances of rejection on account of inadequate security. To add to it, the Maharashtra State Co-operative Land Development Bank Ltd., Branch Office, Satara, states that owing to inadequate security and/or owing to inadequate repaying capacity the farmers cannot get loans for development purpose. The bank, further, states that in order to help all the farmers, the bank is quite willing to sanction and disburse loans to the extent of estimated cost of development and the Agency should make good to the bank the difference between the estimated cost and loan admissible as per Rules of the bank to the farmers. As put by the difference between the estimated cost and loan admissible as per Rules of the bank to the farmers. As put by the bank the difference, between the estimated cost of development and the loan admissible as per Rules of the bank, is definitely not the subsidy. Subsidy, as proposed in SFDA and MFAL, is a definite proportion related to the cost of investment, the maximum amount of such subsidy payable under each scheme having been laid down, and not the loan amount. Under the circumstances the difference that the bank would like the Agency to make good would happen to be an outright grant not related to the cost of the investment proposed.

The bank wants the Agency to make good the difference, firstly, on account of inadequate security and secondly, on account of inadequate repayment capacity. Had repayment capacity not come into the picture the bank would have asked for a guarantee in respect of the excess funds provided and not asked the agency to make good the difference. The bank is, obviously, more concerned with the institutional viability and, therefore, will always select the more established farmers in order to increase the probabilities that its books look good, thereby insuring its survival. The bank's risk now is limited to the estimated cost minus the difference made good by the Agency i.e. the loan admissible as per Rules of the bank and the question of subsidy to farmer remains unanswered unless this very difference made good by the Agency to the bank is to be considered as subsidy which will form a part of the cost of development but not the part of loan amount. Firstly, such a subsidy would not have necessarily the mame relationship with the cost of development as prescribed by the Agency and secondly, it will set a double standard, in respect of some farmers belonging to the set of farmers for whom the programme is being implemented, by paying subsidy before the development has been completed in one case and by denying the subsidy to others till the development proposed has been completed and duly certified. The bank, as such, is not much concerned about the subsidy to farmers since it does not look upon the payment of such a subsidy as making up the gap in security or the gap in repayment capacity either. The role of subsidy is to lessen the burden of repayment of loan in the early period and not to meet the gap in security or the gap in repayment capacity.

Another matter relates to payment of subsidy on the cost of land development and improvement. The Agency prescribed a rate of Rs. 250 per acre for loan and the maximum cost of development per acre eligible for subsidy. The subsidy payable was prescribed at 25 per cent of cost of development or Rs. 250 whichever was less. It was the general complaint that this limit of Rs. 250 per acre for land development was inadequate and needs to be reconsidered taking into consideration the cost estimates for such work. Subsequently, the limit per acre for land development was raised to Rs. 1200 per acre in November 1973 by Agency's Resolution No. 230. The issue of inadequacy of loan for land development was raised in the Agency meeting as early as January 1971 and in spite of the advice of the Divisional Soil Conservation Officer, Satara, supporting the plea for enhancement of the loan per acre the Agency took almost three years to arrive at a decision to enhance the per acre rate to Rs. 1200. As per the Agency Resolution No. 230 this enhanced rate per acre, for the purpose of subsidy, was applicable to loanees after 30th January 1973 and not to others previous to this date. Agency reports that the banks in quite a number of cases, previous to January 1973, had advanced funds in excess of the previously prescribed rate of Rs. 250 per acre. The banks, too, had complained about the inadequacy of this per acre rate but had sanctioned larger funds taking into consideration the security offered, repayment capacity and the estimated cost of such land development work with full knowledge that for the purpose of the subsidy the cost of such works will be limited to Rs. 250 per acre. As a result of enhanced per acre rate, from Rs. 250 to Rs. 1200 for the purpose of maximum cost and eligible amount for the purpose of calculating subsidy, it should be deemed necessary to pay the subsidy to loanees previous to the date of Resolution No. 230 on the enhanced

Table 26: Loan Per Acre of Land Held x Loan Per acre of Land Developed or To Be Developed

`			·	<u>s</u>	mall Farm	ers		. <b></b>				
Loan per scre of			Lo	en per ac	re of lan	d held (R	ks.)					
land developed (ks.)	Upto 100	101-150	151-200	2 <b>9</b> 1-250	251-300	301-350	351-400	401-500	501-600	601-750	Totel	
Upto 100 101 - 150 151 - 200 201 - 250 251 - 300 301 - 350 351 - 400 401 - 500 501 - 600 601 - 750 751 - 1000 1001 - 1500 1501 - 2000 2001 - 2500 2501 - 3000 3001 - 3500 3501 and more	1 214 43315332 13	12421511	1 1 3 2	1 1 3 1 4 1		1 2 2 1 1	1 1 2 2				1 265385759792 25	91
Total	36 	20	13	12	3	4	4	1	2	1	96	•

Table 26 : (continued)

						Margins.	l Farme:	rs					-		
Loen per	acre of		- /7			Losn	per scr	e of la	nd held	(Rs.)					•
land deve	loped (Rs.	) Upto 100		151- 200	201- 250	251- 300	301- 350	351 <b>-</b> 400	401- 500	501- 600	601- 75 <b>0</b>	751- 1000	1001- 1500	Total	•
101 - 1 151 - 2 201 - 2 251 - 3 301 - 3 351 - 4 401 - 5	50 00 50 00 00 00 50 00 00 00	1 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2 2 3 3 3 1 1	1 1 1 2 2 2 1 2 1 2 1 1 2 1 1 1 1 1 1 1	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 6 1			1 3 - 1 1 1	1 1 2 1 1	1 2 3 1	15111		2 3 4 6 5 4 10 8 20 9 6 1	\$2
Total		8	16	10	5	12	3	4	8.	6	7	 9	3	91	

per acre rate or the actual cost whichever is less. Table 26 gives the distribution of loanees, who had lifted loans for land development, according to amount of loan sanctioned per acre of land held and the amount per acre of land developed or to be developed. The number of loanees refers to the period ending June 1972 whose claims for subsidy were forwarded by the Land Development Bank, Satara, to the Agency. It is obvious from the Table that as per Agency Resolution No. 230 only nine small farmers and the same number of marginal farmers will be eligible for subsidy on the full cost of land development, the per acre finance in these cases being limited to Rs. 250 per acre as per initial proposal. If the enhanced rate of Rs. 1200 per acre is made applicable in these cases the full benefit of subsidy will accrue to 71 and 74 small and marginal farmers respectively. It will be fit enough if the enhanced rate per acre is made applicable to all the loanees, since inception of the programme, for the purpose of subsidy.

The question of adjustment of subsidy to the loanne's account had not been resolved upto end of November 1973. The Agency wants the subsidy to be adjusted to the loan amount rather than the repayment instalment. The bank, naturally, prefers the subsidy being adjusted against repayment instalment that being the normal practice. By end of November 1973 the bank had claimed subsidy in 825 cases and of these only 80 cases have been granted subsidy on both the instalments (long term loans are paid in two instalments, the second being paid after getting the necessary utilization certificate for the first instalment) amounting to Rs. 38,218 paise 75 only. In other 73 cases subsidy amounting to Rs. 32,217 paise 17 only has been granted on the first instalment only. All these amounts need to be adjusted against the loanees account and for want of any clear directive in respect of procedure to be adopted for such adjustment remain unadjusted.

### CHAPTER IV

# THE SAMPLE BENEFICIARIES

Previous three chapters dealt with the proposed schemes, under SFDA and MFAL, for the economic uplift of small and marginal farmers, the proposed criterion and the identification of the eligible beneficiaries and the progress of verious schemes since inception upto end of November 1973. A detailed survey was undertaken in 1972-73 with a view to evaluate and assess the impact of the various schemes, expected to generate additional employment and incomes, proposed in the Project. The area selected for the survey was Patan taluka of Satara district where both SFDA and MFAL schemes were operative.

The starting of the SFDA-MFAL Agency was to be from April 1970 but was delayed for about six months and ultimately the Agency started functioning from October 1970. During the year ending March 1971 very little progress was reported even in respect of disbursement of loens for various activities respect of disbursement of loans for various activities proposed in the programme. By the time, i.e. July-August 1972, the survey was started the schemes were functioning in the area for one year at least. At the time the survey was decided upon it was deemed that sufficient time has elapsed since the inception of the schemes and it would be worthwhile to undertake a somewhat detailed study of the working of the Project and the impact of schemes on individual beneficiary cultivators. It was noticed during the course of the survey to undertake a somewhat detailed study of the working of the Project and the impact of schemes on individual beneficiary cultivators. It was noticed during the course of the survey that barring investment in milch animals other items of investment, specially long term investment, had not made any worthwhile progress. Even investment in milch animals was fer behind expectations and the assessment of impact might be a little premature. Long term investment in land can yield results only when the proposed investment has been completed and the subsequent crop plan executed. Extended employment opportunity and the resulting rise in income needs some minimum gestation period before yielding results. So long as the investment has not materialised any rise in employment and income could not be expected. To an extent the same is true in respect of intensive cultivation scheme. While no long or medium term investment is involved, investment in the nature of fertilizers, improved and HTV seeds etc. in current inputs on a continued basis will be necessary to show results in regard to rise in employment and incomes. Investment in milch animals alone could be expected to yield results in so short a period of one year as the investment is complete when the animal has been purchased. Even these results are likely to be in income from milch animals and not necessarily in terms of employment which itself is very difficult to assess. In short any changes in employment and income cannot be expected in so short a period and as such the present survey will not come out with any significant results in terms of such changes. The present study, therefore, might serve as a bench-mark survey for further study around 1975-76 by which time it is expected that some incomplete investments in land etc. would be completed and then the proposed crop plan etc. would be in execution to assess the results.

Sample of Beneficiaries

Initially it was proposed that the sample will be distributed in ten villages belonging to south-eastern part of Patan taluta where both SFDA and MFAL schemes were operative. Subsequently, the sample area had to be changed for want of sufficient number of beneficiaries. Some general information

about the villages from which the sample was selected is given in Table 27. The area is generally hilly being on the eastern slopes of Sahyadris. The extent of forest (mostly revenue forest) land barring in one or two villages is quite meagre and the extent of culturable waste and land not available for cultivation was significant. Unirrigated land is predominant irrigation being largely limited to wells and lifts operated on the river. Kharif is the important season and the staple food crops are Rice and Jowar.

The Ministry had proposed that the sample be drawn of fifty cultivators for each item of investment under long term and medium term loans. This sample size was suggested for both SFDA and MFAL programmes. However, taking into consideration the loans lifted by end of June 1972, it was not possible to draw such a sample in respect of almost all the items under long term loans. Such a sample size would have been possible in respect of milch animals, covered under medium term loans, but that would be distributed in too many villages and would have been difficult to manage. As a result of these difficulties it was, therefore, proposed that the sample, for want of sufficient number of beneficiaries, should cover both beneficiaries and non-beneficiaries to make up the sample size of fifty cultivators for SFDA and hundred cultivators for MFAL programmes. Subsequently, with the change in the initially selected villages, the sample plan was changed to include the beneficiary cultivators only. The size of the sample was decided upon fifty beneficiaries under SFDA and hundred beneficiaries under MFAL. The list of villages from which the sample has been drawn and the number of beneficiary families covered under each of the two programmes is given below.

·		SFDA			MFAL	
•	L.T.	M.T.	Total	L.T.	M.T.	Total
1. Saikade 2. Manewadi 3. Gudhe 4. Urul 5. Vihe 6. Navadi 7. Nisere 8. Mandrul Heveli 9. Sangewad 10. Sonawade 11. Merali 12. Adul 13. Mhavashi	211 -31153 -3	1 6 5 7 2 1 8	212-365187486	43 - 82 336 7	5 7 10 	9 10 10 8 2 11 11 11 10
Total	20	43	63	36	71	107

(L.T. = Long term loan. M.T. = Medium term loan.)

All the medium term loans were for purchase of milch animals. The purpose for which the long term loans were disbursed under SFDA and MFAL is given gelow.

	Purpose	No.of Benefic:	iery cultiv	etors
	- ar poso	SFDA	MFAL	
2. 3.	New Wells Repairs to old wells Oil engine, Electric motor etc. Water supply, Pipeline etc. Land levelling and development etc.	5 1 15 8	3 2 1 8 22	
,.	Total		36	

Table 27: Some General Information regarding Sample Villages

							:	<u>.</u>					
	17	No. of	Total	Forest	Irrig	ated la	nd by	source (	acres)	Unirri- gated	Culti- vable	Not available	Staple food
VI.	llage	house- holds 1971 Census	area	(acres)	Well	River	Canal	Other	Total irri- gated	area	waste	for cultiva- tion (acres)	
1.	Mhavashi	453	2875	-	13	6	-	-	19	1929	711	216	Rice, Jower
2.	Adul	456	1967	156	3	9	-	- A	12	1612	17	170	Rice, Jowar
. 3.	Urul	281	1894	522	15	-	16	· <u>·</u>	31	1227	8	106	Jowar
4.,	Nisara	244	1358	344	52	_		<b>-</b> ·	52	790	6	166	Jowar
5.	Mandrul Haveli	935	2957	620	99	- ,	_	23	122	1894	25	296	Rice, Jowar
6.	Navadi	500	2406	168	73	-		, , <b>-</b>	73	1808	28	329	Rice, Jowar
7.	Vihe	462	2415	260	44	32	-		76	1769	42	268	Jowar
8.	Sangawad	460	1817	60	29	41	-	•	70	1462	17	208	Rice, Jowar
9.	Sonawade	706	3275	-	143	302	_	***	445	2153	380	297	Rice, Jowar
10.	Marali	466	2426	995	84	<b>ļ</b> 20	-	<b>.</b>	204	1482	128	120	Rice, Jowar
11.	Saikade and Manewadi	575	2078	379	44	17	• .		61	1305	169	164	Rice, Jowar
12.	Gudhe	432	1483	291	17		-	-	17	915	127	133	Rice, Jowar

When the field work was started it was found that some of the selected beneficiaries had lifted loans for other investments included under the programmes. While the sample size remained the same the number of beneficiary families under each item changed and the same is given below.

•		No.of Benefic	iery Cultiveto	or;
	Purpose	SFDA	MFAL	
2. F 3. C 4. W	lew wells Repairs to old wells File engine, Electric motor etc. Fater supply, Pipeline etc. Fand levelling and development etc	4 1 5	3 2 1 8 21	
	sand levelling and development etc Silch animals	47	78	

The selection of villages was based on these being in a comparatively compact area, availability of sufficient number of beneficiaries and comparatively easier accessibility for most of the period of the survey.

The selection of beneficieries with long term loans wes with respect to loans (at least first instalment) lifted upto 31st July 1972. Since the reference period for the survey was to be May 1972 to end of June 1973, and the field work was to start in August 1972 it was found convenient to consider the beneficiaries who lifted loans upto 31st July 1972. Beneficiaries under medium term loans for purchase of milch animals were taken into account for the period ending March 1972. Fresh proposals for purchase of milch animals under medium term loans were to be considered after September 1972 and would-be beneficiaries on the score of an application for such a loan were not considered. The number of loans disbursed under SFDA was quite small and as a result the selection of cultivators under SFDA amounts to a census of beneficiaries, both under long term and medium term loans, in the selected villages. As regards MFAL, the census of beneficiaries was in respect of long term loans only, the medium term loan beneficiaries being selected to make up the sample size of hundred beneficiaries though in the process the sample was effectively increased to one hundred and seven beneficiaries it was presumed that at a time one farmer will be entitled to benefits under one of the selection of the sample beneficiaries it was presumed that at a time one farmer will be entitled to benefits under one of the items only and the selection was made on that basis only. As stated earlier some of the beneficiaries had lifted loans for some other item of investment besides the one on the basis of which these beneficiaries were selected.

Land Holding of Sample Beneficiaries

### Land Holding of Sample Beneficiaries

Table 28 gives the distribution of small and marginal farmers according to size of operated holding. As stated in Chapter II, the 'operated' holding was not defined by the Secretaries committee nor by the Agency. 'Operated' holding had been defined by various centres for the purpose of Farm Management Studies in various ways and the Ministry of Agriculture had not suggested which of the definitions was acceptable to it. The 'operational' holding as defined for the purpose of the survey includes 'Not Sown Area' plus 'Current Fallows' only. Since no large scale land reclamation programme was mooted by the programmes this definition of 'operational' holding was deemed fit for all practical purposes. The cultivated area in each size group is nearabout the same as the owned area, though for the total sample as such it is

Table 28: Distribution of Small and Marginal Farmers according to Size of Operated Holding

					3mel	1 Farmers	· ***			1 2		t Ea	
ize of operated	No.of hold-			1971-72			No.of	<del>-</del>	1	972-73		· = = ================================	,
holding (acres)	ings	Area owned A. G.	Area leased in A. G.	Area leased out A. G.	Culti- vated area A. G.	Operated area	ings	Area owned A. G.	Area leased in A. G.	Area leased out A. G.	Culti- veted eres A. G.	Operated area	
More then 20.01	1	30-18	•	-	30-18	22-18	1	30-18		-	30-18	22-18	
15.01 - 20.00	1	18-13 ½		•	18-13 ½	18-13 ½	1	18-13 ½	• •		18-13 ½	18-13	j.
10.01 -	4	70-37	-		70-37	49-00	4	70-37	- · · · · - · · · · · · · · · · · · · ·	-	70-37	49-00	
7.51 - 10.00	9	107-17	-	1-20	105-37	78-21	9	107-17	. =	1+20	105-37	78-21	
5.01 - 7.50	19	159-37	3∔00	5-36	157- 1	124-14	19	159-37	3-00.	5 <b>-</b> 36	157- 1	124-14	
2.51 - 5.00 ^	18	118-212		17-15	101- 6ž	67-24	18	118-212	r =	17-15	101- 62	67-24	
1.01 - 2.50	8	27-20	, <b>•</b>	3-13	24- 7	15-16	8	27-20		3-13	24- 7	15-16	
Upto 1.00	3	10-26	<b>~</b>	9- 5	1-21	1-21	3	10-26	<b>.</b>	9- 5	1-21	1-21	
Total	63	543-30	3-00	37- 9	509-21	377- 72	63	 543 <b>-</b> 30	3-00	-37- 9	509-21	377- 71	
									- <b></b> :	(	continued	)	-

Table 28: (continued)

	•	· v			Merg	inal Farmer	<u> </u>								
Size of operated holding (acres)	No.of			1971-72			No.of	1972-73							
	hold-E	Area owned	Area leased in A. G.	Area leased out A. G.	veted erea	Operated area	hold- ings	Area owned A. G.	Area leased in A. G.	Area leased out A. G.	Culti- vated erea A. G.	Operated area	,		
7.51 and	5	39- 5월	12-00		51- 5 <del>2</del>	43-35½	5	39- 5½	12-00		51- 5 <del>2</del>	43-35½	٠		
5.01 - 7.50	6	41-11 ½	0-20	2-26	39- 5₺	3 <b>∳-</b> 25½	6	41-11 ½	0-20	2-26	39- 5 <del>2</del>	36-25 ½			
2.51 - 5.00	36	147-20½	_11- 4	8-25	149-39 2	129-38	37	150-35 ½	11- 4	7-37	154- 22	133-26	99		
1.01 - 2.50	40.	90-11	1-30	4-20	87-21	73- 1	39	89-18	1-30	5-20.	85-28	71- 1			
Upto 1.00	17	17- 9-	-	1-18	15-31	12-10	16	16-20		1-18	15- 2	11-21			
Nil	3	6-24	-	6-24			. 4	5 <b>-</b> 8	·	5- 8	<u>.</u>	-			
Total	107	342- 1½	25-14	23-33	343-22½	295-30	107	342-18½	25-14	22–29	345- 3 <del>2</del>	296–29			

99

somewhat less in case of small farmers and only slightly more in respect of merginal farmers. Cultivated area for the two years 1971-72 and 1972-73 is the same for small farmers and only nominally more in the second year, i.e. 1972-73, in respect of marginal farmers. The operated area has sunk substantially to 74 per cent of cultivated area in respect of small farmers. The operated area in respect of marginal farmers was around 86 per cent of cultivated area. In some cases of leasing out of land the leasing out is not genuine but only a clandestine loan operation. In such cases land has not remained in the possession of the borrower, though he has the legal title to that piece of land, but in possession of the money-lender who cultivates it. To a large extent the same is observable in respect of leased in land. It is only for the sake of convenience that such lands have been shown as leased in or leased out lands.

Table 29 gives irrigated area, dry area etc. in each size of operated holding. Area under irrigation is quite small in case of both small and marginal farmers the bulk of the operated area being dry land. There is only a slight increase in the irrigated area in the second year, 1972-73; in respect of both small and marginal farmers. When this increase in irrigated area was checked back to the individual farmer it was found out that this increase had not resulted as a result of long term loans, for 'New wells', 'Repairs to Old Wells' or 'Water Supply Schemes' etc., received by the beneficiery farmers. This increase in irrigated area was independent of these long term investment in irrigation and in most cases was reported by farmers who had not sought any loan under any of the items such as 'New Wells', 'Repairs to Old Wells', or 'Water Supply' etc. What was said in Chapter III in respect of second instalment of long term loans, for the above-mentioned items, in regard to Patan taluke, holds good here too. In majority of the cases second instalment has been alifted (the second instalment here refers to items related to irrigation only) between April 1972 and January 1973 and in no case the work had been completed by the end of field-work.

Some explanation about the size groups of beneficiaries will not be out of order. The maximum area that a small farmer could hold, for being eligible to participate in the programme, was stipulated at 7.5 acres of 'perennially irrigated' land, the best category of land, or 30 acres of 'Warkas' land, the coarse category of land. These two limits to area held belong to two extreme categories of land and the maximum for other categories lies in between these two extremes. For marginal farmers the maximum was prescribed at lower than the minimum limit, for various categories of land, for the small farmers. Conversion ratios for various categories of land were decided in terms of 'Warkas' land as no farmer can be expected to hold land under any one category only. The holding groups in the Tables represent the actual operated area irrespective of the category of land held and if the conversion ratios were to be applied in respect of this operated area a few of these cultivator families will not be eligible to participate in the programmes. This is so on account of taking into consideration beneficiary cultivators family land rather than the individual beneficiary's land. Even if ownership of land as per Village Form 8A was the criterion for identification of beneficiaries, the Agency should have provided for the following provisos.

(i) Members of the family staying and cultivating lands

(i) Members of the family staying and cultivating lands as a single enterprise, should not be treated as small or

Table 29: Irrigated Area, Dry Area etc. in Each Size of Operated Holding

Smell Fermers

Size of	No.of		i	971-72			No.of hold-								
operated holding (acres)	hold- ings	Culti- veted erea	Of Col. 3 irri- geted erea	3 dr <b>y</b> area	Of Col. 3 perm- enent fallow	Operated area (Cols.	ings	Culti- vated area	Of Col. 9 irri- gated area	Of Col. 9 dry area	Of Col. 9 perm- anent fellow	Operated area (Cols. 10+11)			
(1)	(2)	(3) A. G.	(4) A. G.	(5) A. G.	(6) 4. G.	4+5) (7) A. G.	(8)	(9)	(10) A. G.	(11) A. G.	(12) A. G.	(13) A. G.			
More than 20.01	1	30 <b>-18</b>	<u>-</u>	22-18	8∸00	22-18	1	30-18	1-00	21-18	8-00	22-18			
15.01-20.00	1	18-13 g	3-00	15-13 ½	<b></b>	18-13 ½	1	18 <b>-1</b> 3 ½	3-00	15-13 ½	-	18-13 ½			
10.01-15.00	) 4	70-37	3-37	45- 3	21-37	49-00	4	70-37	3-37	45- 3	21-37	49+00			
7.51-10.00	9	105-37	8-30	69-31	27-16	78-21	9	105-37	11-30	66-31	27-16	78-21			
5.017.50	19	157- 1	11- 5	113- 9	32-27	124-14	19	157-1.	12-39	111-15	32-27	124-14			
2.51- 5.00	18	101- 6½	5-38	61-26	33-22½	67-24	18	101- 62	5-38	61-26	33-222	67-24			
1.01- 2.50	8	24- 7	0-39	14-17	8-31	15-16	8	24- 7	0-39	14-17	<b>8-31</b>	15-16			
Upto 1.00	3	1-21	-	1-21	•	1-21	3	1-21	0-25	0-36	- Correction	1-21			
Total	63	509-21	33-29	343-18½	132-13 ½	377- 7½	63	509-21	40- 8	336-392	132-13 ½	377- 72			

Mergi	nal	Farm	ers

** I	•*	1.11	<del>-</del> ,	•	1	Marginal	Farmers						
Size of operated	No.of hold-	~ ·		1971-72			No.of			1972-73			
holding (acres)	ings (2)	Culti- vated area (3) A. G.	Of Col. 3 irri- gated area (4) A. G.	Of Col. 3 dry area; (5)	Of Col. 3 perm- anent fallow (6) A. G.	Operated area (Cols. 4+5) (7)	hold- ings	Culti- vated area (9)	Of Col. 9 irri- geted area (10) A. G.	Of Col. 9 dry area (11)	Of Col. 9 perm- enent fallow (12) A. G.	Operated area (Cols. 10+11) (13)	
7.51 end	5	51- 5½	3-22	40-13 출	7-10	43-35 <del>2</del>	5	51- 5½	3-22	40-13 <del>2</del>	7-10	43-352	
5.01 - 7.50	6	39- 5½	3-39	32-26 g	2-20	36-25½	6	39~ 5분	4-39	31-26 <del>2</del>	2-20	36-25 d	Ļ
2.51 - 5.00	_	149-39 <del>1</del>	12- 2	117-36	20- 1 <del>2</del>	129-38	3 <b>7</b>	154- 22	14-34	118-32	20-16 <del>]</del>	133-26	ì
1.01 - 2.50	40	87-21	4-25	68 <b>-</b> 16'	14-20	73- 1	39	85-28	7-36	63- 5	14-27	71- 1	
Upto 1.00	17	15-31	0-18	11-32	3-21	12-10	16	15- 2	0-32	10-29	3-21	11-21	
N11	3				-	-	4		_	• •-	-		
Total	107	343-22½	24-26	271- 4	47-32 ½	295-30	107	345- 3½	32-3	264-26	48-142	295-29	

marginal farmers even if the individual landholder qualifies on the basis of prescribed land holding for identification but the total land held by the family does not qualify.

(ii) Land held outside the village by a given farmer should be taken into consideration for deciding the eligibility of the farmer and if such area (within the village plus outside the village) exceeds the prescribed limit that farmer should be excluded from participating in the programme.

(iii) As a converse to (i) above, if members of a given family were staying separately and cultivating lands individually, they should be identified as small or marginal farmers if their individual area held falls within the prescribed limits even if, as per land records, land held by such individuals appears in the name of a single member.

The 'master lists' of small and marginal farmers in this Project were based on the individual owned holding as per the revenue record. If this record was to be wholly relied upon, lands held in certain cases of beneficiaries would be much larger. Landholders below 2.5 scres of 'perennially irrigated' land or 10 acres of 'Warkas' land would not be expected to be enrolled as small farmers but such cases do exist specifically because the land is jointly owned by two or three brothers etc. and only a single member's name appears on the record. In fact the beneficiary is entitled to his proportionate share, and in some cases at least this could have been verified from the Village Primary Co-operative Gredit Society, and actually owns and cultivates that much area only. Invariably the individual lendholder has been assumed to constitute a small or a marginal farmer's family which need not and is not necessarily the case. In some cases in the sample it was found that the small or the merginal farmer happened to be one of the landholders in the family and the family holding was much larger when compared with the acreage stipulated for a small or a marginal farmer. As a matter of fact the family cultivates all the lands of the individual landholders as a single family enterprise and the records seem to be in view of the Maharashtra Agricultural Lands (Ceilings on Holdings) Act, 1962. The cropping for such individual landholder is really a part of the crop plan for the family lands and not independent of the family land. Since our interest in the small or the marginal farmer is in terms of an 'economic' entity rather than a 'legal' entity it was deemed fit to consider the total family holding rather than the individual beneficiary's holding. In fact the whole femily benefits as a result of the individual inclusion in the programme rather than the individual alone.

### Asset Holding, Cropping Pattern and Income

Table 30 gives the asset holding of beneficiary cultivators, small and marginal, according to size of operated holding. Total assets in agriculture were by far the most important. The average asset holding of the small farmers was more than twice the asset holding of marginal farmers. Even if the last five groups, i.e. 7.5 acres—10.0 acres to upto 1.0 acre, are compared with those of the marginal farmers we find that the average asset holding of the marginal farmers was only a little more than half of the average asset holding of the small farmers in these size groups that are common to both small end marginal farmers. These differences arise not only on account of category of land held but also on account of other assets held such as machinery and implements, livestock etc. Inveriably the small farmer's average asset holding was larger in all these respects than that of the marginal farmers.

Table 30 : Asset Holding according to Size of Operated Holding

•	•					Smell Fa	rmers				(Value	in Rs.)		
operated	No.of hold-	Value of land	Machi- nery and	Live- stock	tock shed	Total assets in	Shares and depo-	ment in	Other, houses,	Total Assets	assats	Certain 30th Ju	ne 1973	es on
	ings	owned	imple- ments	Poultry		egri- culture	sits	occupa- tion	i. etc.		per holding	Machi- nery, imple- ments	Live- stock, poultry	Sheres and depo- sits
More them	1	46050	545	6410	1500	54505	4975	. <b>-</b>	800	60280	60280	545	6865	4800
15.01 - 20.00	1	29740	3545	4150	-	37435	1055	15000	9000	62490	. 62490	3005	4050	1055
10.01 - 15.00	4.	102510	5832	11245	6000	125587	4970	<b>-</b>	6300	136857	34214	5860	14345	5660
7.51 - 10.00	9	163025	21782	26242	9500	220549	9875	325	26000	256749	28528	13525	23980	8515
5.01 <b>-</b> 7.50	19	251825	2692 <b>2</b>	43110	23100	34495 <b>7</b>	22660	-	54900	422517	22238	26972	41840	23055
2.51 - 5.00	18	166852	587 <b>7</b>	37024	19050	228803	19295	450	40100	288648	16036	5534	36385	19620
1.01 - 2.50	8	39995	890	9855	9000	59740	2790	-	8300	70830	8854	890	8985	2805
Upto 1.00	3	20366	110	4525	1500	26501	170	<b>-</b>	2800	29471	9824	110	3805	170
Total	63	820363	65503	142561	69650	1098077	65790	15775	148200	1327842	21077	56441	140255	65680
•					•								•	

Table 30 : (continued)

			Marginal Farmers										(Value in Rs.)			
operated hol	No.of hold-	Value of	Machi- nery	Live- stock and	Cattle shed		Shares and depo-	Invest- ment in non-egri	Other, houses	Total Assets	Average essets		n øssets une 1973			
	ings'	lend owned	and imple- ments	Poultry		in agri- culture	sits	occupa- tion			house- hold	Machi- nery, imple- ments	stock,	Shares and deposits	5	
More tha	n 5	58290	2538	9025	3000	72853	5230	-	30600	108683	21737	2538	10805	5230		
5.01 <b>-</b> 7.50	6	60165	13244	11415	5000	89824	3230	_	13100	106154	17692	13244	11525			
2.51 - 5.00	37	241612	19540	59096	34500	354748	18260	300	70300	443608	11989	19792	.53960	18590	g	
1.01 <b>-</b> 2.50	39	138797	5884	52524	33000	230205	11550	5900	47100	294755	7558	5884	46490	11840		
Upto 1.0	0 16	24705	827	19829	10700	56061	3285	<b>-</b> ,	17600	76946	4809	827	17615	3390		
Nil	4 	8360 	8	3271	3000	14639	425		4500	19564	4891	8 	1980	425	-	
Total	107	531929	42041	155160	89200	818330	41980	6200	183200	1049710	9810	42293 	142375	42930	_	

Of the other assets, excluding those in agriculture, residential houses comprised the major share of the asset holding. Under shares and deposits it was mainly the shareholding in the primary co-operative credit societies and in a few cases the shareholding in Co-operative Sugar Factory at Marali in Patan taluka.

Changes in asset holding are given in respect of machinery and implements, shares and deposits and livestock and poultry. These were the assets held as on 30th June 1973. The average holding of these assets, both in respect of small and marginal farmers, has come down but only marginally. There was almost no addition to machinery and implements during the year of survey. The livestock held by both the sets of farmers had only slightly increased and the net lower asset value was largely a result of lower valuation of older livestock held.

Table 31 gives the cropping pattern of small and marginal farmers according to size of operated holding for the two years 1971-72 and 1972-73. The important crops were Rice, Jowar and Groundnut. Variation in acreage under various crops is a normal feature and nothing more need be said about it. The gross cropped area was slightly less in the year 1972-73 than in 1971-72 as was the double cropped area. This is observable both in respect of small and marginal farmers. Only feature worth mentioning is the increase in area under sugarcane which has been attracting cultivators lately. The sample farmers, by and large, do not report use of any other variety of seeds for Jowar, Rice etc. than the local ones or the ones that had been in vogue for quite sometime. As the cropping pattern for the two years reports there was no instance of HYV paddy and only three or four instances of HYV Jowar accounting for an insignificant proportion of the total erea under Jowar. The HYV seed has not made any dent in the cropping pattern for whatever reasons.

Tables 32 and 33 give total income by various sources of income for small and marginal farmers and for the two years 1971-72 and 1972-73 respectively. The average per family income was much larger in respect of small farmers than marginal farmers for both the years. Average income per family has almost remained at the same level for the two years in respect of both the sets of farmers. The rise in total income in 1972-73 over 1971-72 was essentially the result of rise in income from agriculture over the previous year. However, this rise in income from agriculture was essentially the result of rise in harvest prices of various agricultural produce and not the result of rise in production. The rise in gross production was reported only in respect of sugarcane and Gur manufactured on the farm. Gross production and its value at harvest prices for the two years 1971-72 and 1972-73 is given below.

Small Farmers

	1971-	72	1972-73			
	Gross production in Qntls.	Value (Rs.)	Gross Production in Qutls.	Value . (Rs.)		
1. Cereals and Millets 2. Minor Millets 3. Pulses 4. Oilseeds 5. Sugarcane Gur 6. Other Crops 7. Fodder TOTAL	1005.65 	76,379 1,610 3,669 75,039 24,276 9,366 17,337 2,07,676	590.42 - 329.55 1980.50 } 154.90 }	75,633 1,252 1,886 58,846 86,474 7,236 59,013 2,90,340		

Table 31 : Cropping Pattern according to Size of Operated Holding

Small Ferm⇒rs (Ares in acres)													
Size of operated	Year	Operated area	Current fallow	dice	Kherif Jower	Rebi Jowar	HYV Jower	Wheat	Minor millets	Urid	Other pulses		
holding (acres)		A. G.	.A. G.	A. G.	A. G.	A. G.	A. G.	A. G.	A. G.	A. G.	A. G.		
More than 20.01	1971-72 1972-73	22 <b>-</b> 18	<u>-</u> 5-18	4-00 5-00	4-00 <b>4-</b> 00	6 <b>-18</b> 1 <b>-</b> 00	<u>-</u>	ī- 3	2-00 1-00	-	=		
15.01 - 20.00	1971-72 1972-73	18-13 \\ 18-13 \\ 18-13 \\	- 2-28½	2-00 1-00	6-13 ਵੇ 8-00	2-00	<b>-</b> .	1-20	<u>-</u>	2-00	- -		
10.01 - 15.00	1971-72 1972-73	49-00	<del>-</del>	10-11 7-17	20-23 12-30	5-00	0-10	1-12 1- 9	1-00 1-00	1-00 1-00	0-34 0-25		
7.51 - 10.00	1971-72 1972-73	78-21 78-21	6-00	24-35 17-26	17-20 16-35	8-00 1-00	0-10 1-00	3-20 5-15	2-00	1-26 1-00	<del>-</del> 2-36	107	
5.01 - 7.50	1971-72 1972-73	124-14 124-14	1-20 0-21	30-39 29-21	23 <b>-</b> 3 <b>28-22</b>	20 <b>-</b> 14 <b>5-1</b> 0	0-30 <b>3-30</b>	4 <b>-</b> 3 7 <b>-</b> 19	2 <b>-</b> 22 3 <b>-</b> 00	2-10 3-00	0-25 0-24		
2.51 - 5.00 .	1971-72 1972-73	67 <b>-</b> 24 67 <b>-</b> 24	1-15	19-29 19-32	10 <b>-</b> 30 11 <b>-</b> 28	12- 4 3-20	-	1-18 4-20	3-34 3-16	3-26 1-10	0-10 0-11		
1.01 - 2.50	1971-72 1972-73	15 <b>-</b> 16 15 <b>-</b> 16		6-21 5-21	2-17 2-27	2- 2 1-15	-	1-00 1-16	0-34	- 0-20	-		
Upto 1.00	1971-72 1972-73	1-21	<del></del>	1-00 0-15	7 <b></b>	÷	- '	-	0.21	-	-		
Total	1971-72 1972-73	377- 71 377- 72	1-20 16- 2½	99-15 86-12	84-26½ 84-22	55-38 12- 5	1-10 4-30	12-33 21- 2	11-16 9-31	10-22 6-30	1-29 4-16		
					,		<del>-</del>						

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Size of operated holding (scres)	Year	Groundnut	Sugercane	Vogetables	Other Crops	Fruit and orchards	Gross cropped	Double
						G.	A. G.	
More than 20.01	1971-72 1972-73	6-00 6-00	_ 2 <b>_</b> 20	<b>-</b>	-		22 <b>-</b> 18 20 <b>-</b> 23	3=23
15.01 - 20.00	1971-72 1972-73	6 <b>-0</b> 0 -	1-00	0-20 0- 5	-	- <b>-</b>	21-13 ½ 15-25	3-00
10.01 - 15.00	1971-72 1972-73	13-00 22- 3	0-30 3-10	0-31 0-10	1-30 2-20		56-21 52- 4	7-21 3- 4
7.51 - 10.00	1971-72 1972-73	22 <b>-</b> 00 25 <b>-</b> 00	3-10 5-32	1-30 1-38	2 <b>-</b> 00 2 <b>-</b> 20	0-10 0-10	87- 1 81-12	8-20 8-31
5.01 - 7.50	1971-72 1972-73	53-13 44-21	2-39 18 <b>-</b> 19	2-39 1-22	1-16 1-00	0-23 0-23	145-36 147-11	23- 2 23-18
2.51 - 5.00	1971-72 1972-73	24-18 23-19	0-23 4-17	1-22 2-14	1- 5 1-00	-	79-19 75-27	11-35 9-18
1.01 - 2.50	1971-72 1972-73	6- 8 5-34	0-21	 	0-34 0-34	=	19- 2 <sup>-</sup> 19-22	3-26 4- 6
Upto 1.00	1971-72 1972-73	-	0-25	<u>.</u>	0-21	=	1-21 1-21	-
Total	1971-72 1972-73	130-39 132-37	8-22 36- 4	7-22 6- 9	7-26 7-34	0-33 0-33	433-11½ 413-25	57-24 52-20

Tuble 31 : (continued)

				Marginal Farmers					(Area in scres)			
size of operated holding	Year	Operated area	Current fallow	Rice	Aherif Jower	Rabi Jowar	HYV Jowar	Whest	Minor millets	Urid	Other pulses	
(acres)		A. G.	A. G.	A. G.	A. G.	A. G.	A. G.	`A. G.	A. G.	A. G.	A. G.	
More than 7.51	1971-72 1972-73	43-352 43-352	1-10	5- 3 5-00	18-33 2 22- 2	• •	_	0-20 0-20	2-00 3-00	0-20 2-20	0-36 1-10	
5.01 <b>- 7:</b> 50	1971-72 1972-73	36-25 <del>2</del> 36-25 <del>2</del>	1-11	6-32 3- 7	9-37호 8-27호	6-00 4-00	- 1-20	1- 5 2- 3	-	3- 3 5 <del>-</del> 25	0-22	
2.51 - 5.00	1971-72 1972-73	129 <b>-</b> 38 133 <b>-</b> 26	1-27	25 <b>-</b> 9 28 <b>-25</b>	39 <b>-21</b> 44 <b>-</b> 38	14-23 1-00	0-20 1-00	3-35 5- 2	2-36 2- 5	4-20 2-35	0-27 0-15	
1.01 - 2.50	1971-72 1972-73	73- 1 71- 1	0- 3	19-32 15-27	23-35 19- 7	5-36 1-30	1-32 1-25	5-20 6-11	1- 8 2-23	1-18 1-12	0-13° 0-26	
Upto-1.00	1971-72 1972-73	12-10 11-21	<b>.</b>	1-15 3-15	3-31 44	0-35 1- 2	- -	0-27 0-25	-	1-14 0-22	-	
Totel	1971-72 1972-73	295 <b>–</b> 30 296 <b>–</b> 2 <b>9</b>	3-00 3-13	58 <b>-</b> 11 55 <b>-</b> 34	95-38 98-3 <b>7</b>	27-14 7-32	2-12 4- 5	il-27 14-21	6- 4 7-28	12-35 10-34	2-18 2-11	

Table 31 : (continued)

Size of operated holding (acres)	Year	Groundnut	Sugarcane	Vegetables	Other crops	Fruit and orchards A. G.	Gross cropped	Double cropped
More than 7.51	1971-72 1972-73	12-29 10-20	2- 7	1-20 0-35	-		44- 12 45-322	1-16 1-37
5.01 - 7.50	1971-72 1972-73	13- 4 11-15	0-35 3-00	0-34 0-10	0-20	_	42-32 <del>2</del> 39-27 <del>2</del>	6- 7 4-13
2.51 - 5.00	1971-72 1972-73	48- 7 42-21	1-23 10-33	1-37 2- 7	0-25	1- 7 1- 7	145-10 142-28	16-39 11- 4
1.01 - 2.50	1971-72 1972-73	20-14 24-39	- 5-20	0-25 1- 1	0-31 0-20	0-20 0-20	82- 4 81-21	9- 6 10-20
Upto 1.00	1971-72 1972-73	5-20 2-20	0-38	0-8	-	0-10 0-10	13-32 13-24	1-22 2- 3
Total	1971-72 1972-73	99-34 91-35	2-18 22-18	4-36 4-21	1-36 0-20	1-37 1-37	328-00 323-13	35-10 29-37

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Table 32: Total Income by Sources of Income (1971-72)

							(Income in Rs.)					
Size of operated holding (acres)	No.of hold- ings	Agri- culture	Animal Husbandry	Salaried Services	Non-Agri. Occupa- tion	Agri. and Non-Agri. Labour	Agri. Rent etc.	Remi- ttances	Total Income	Average income per household		
More then 20.01	3 <b>1</b>	7059	575	3000	<b>-</b>	^ <b></b>	,		10634	10634		
15.01 - 20.00	1	6836	385	_	600	• -	~	_	7821	7821		
10.01 - 15.00	4	10646	2229	-	1500	-	. <b>-</b>	300	14675	3669		
7.51 - 10.00	9	28537	50 <b>79</b>	1740	500		_	3300	39156	4351		
5.01 - 7.50	19	45598	10649	6672	- '	600	_	1240	64759	3408		
2.51 - 5.00	18	18723	6551	15216	500	600	1023	2300	44913	2495		
1.01 - 2.50	8	4315	3076	3480	1200	1300	-	1300	14671	1834		
Upto 1.00	. 3	476	1252		500	1500	-	-	3728	1243		
Total	63	122190	29796	30108	4800	4000	1023	8440	200357	3180		

Table 33: Total Income by Sources of Income (1972-73)

Size of operated holding (acres)	No.of hold- ings	Agri- culture	Animal Husbandry	Salaried Services	Non-Agri. Occupa- tion	Agri.and Non-Agri. Labour	Agri. Rent etc.	Remi- ttances		Average Income Per Household	
More than 20.01	1	11426	-383	3600	<u> </u>	<u>.</u>	<del>-</del>	-	14643	14643	
15.01 - 20.00	1	5370	<b>-1</b> 39		800	-	-	-	6031	6031	
10.01 - 15.00	4	16471	424	-	1500	•	-	1300	19695	4924	
7.51 - 10.00	9	40881	429	2050	500	<b>-</b>	-	3200	47060	5229	
5.01 - 7.50	19	44284	1915	7920	-	1274	-	1100	56493	2973	
2.51 - 5.00	18	23352	1246	16248	400	1572	1706	2800	47324	2629	
1.01 - 2.50	. 8	4950	<b>-</b> 388	3600	1264	2115	-	1200	12741	1593	
Upto 1.00	3	235	324		600	1408	- <sub></sub>	1000	3567	1189	
Total	63	146969	3428	33418	5064	6369	1706.	10600	207554	3294	
			· <b></b> -							(continued)	

Table 33 : (continued)

					<u>.</u> . ,	(Income in Rs.)				
Size of operated holding (acres)	No.of hold- ings	Agri- culture	Animal Husbandry	Saleried Services	Non-Agri. Occupa- tion	Agri. end Non-Agri. Lebour	Agri. kent etc.	Remi- ttances	Total Income	Average Income Per Household
More then 7.51	. 5	14892	<b>-</b> 396	3600	1600	1335	<b></b>	400	21431	4286
5.01 - 7.50	6	8362	-484	- ,	- 17.3	399	-	3300	11577	1929
2.51 - 5.00	37	50071	-264	21468	4940	2882	-	8460	8755 <b>7</b>	2366
1.01 - 2.50	39	34247	459	2280	8640	11895	306	5400	63227	1621
Upto 1.00	16	8348	1446	1860	3397	5015	· -	6500	26566	1660
Nil	4		131	250	1600	274	755	600	3610	902
Total	107	115920	892	29458	20177	21800	1061	24660	213968	1999

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	:: ::	Margin	al Farmers	
	1971-	72	1972-	73
	Gross Production in Qntls.	Value (Rs.)	Gross Production in Qntls.	Value (Rș.)
1. Cereals and Millets 2. Minor Millets 3. Pulses 4. Oilseeds 5. Sugarcane   Gur   6 6. Other Crops 7. Fodder	704.66 - 284.19 130.00 ) 17.00 )	57,033 833 4,320 54,600 5,993 7,751	407.71 - 245.90 990.00 ) 112.65 )	55,183 700 1,939 43,301 59,581 5,850 60,655
TOTAL	- 1	.46,105	- 2	2,27,209

The rise in production of sugarcane and its processed product Gur was the result of increase in area under sugarcane which had been lately attracting the farmers. There was a fantastic rise in value of fodder and this was the result of poor rains during the year 1972-73 both in respect of its distribution and total precipitation. As a result of this production of all the crops suffered and was slightly more than 50 per cent of the previous year 1971-72.

The rise in prices of fodder was felt on the income from milch animals. Table 34 gives the production of Milk and bggs and sales of the same. While there is a small rise or fall in milk production the sales have more or less remained at the previous level i.e. the year 1971-72 and so also the consumption by the farmer's family. Milk sales to co-operative milk society have gone down only in case of small farmers. The fodder prices pushed up the maintenance cost of milch animals and at the same time the price per litre of milk sold to society remained the same as in 1971-72. This was a major factor, besides other factors such as animals in milch during 1972-73, their yield and the total period for which these were in milch, etc., that adversely affected the income from milch animals.

Income from wage labour was an important source of income in respect of marginal farmers only. The rise in income from wages was to an extent the result of rise in wage rate per day and also the larger number of wage earners in 1972-73. Remittences received had remained almost at the same level with only a marginal increase in 1972-73 over that in 1971-72.

## Borrowings during 1972-73 and Outstanding Loan on 30th June 1973

Table 35 gives Outstanding as on 1st July 1972 and Borrowings, Repayment during the year 1972-73 and Outstandings as on 30th June 1973. Short term outstandings on 1st July 1972 represented borrowings for the crops to be grown during the crop year 1972-73. Repayment of the previous year's dues starts sometime in January-February and the fresh advances were sanctioned and lifted within a very short period, at times within a matter of eight-ten days of repayment, for the next year. As a result of this the repayment during 1972-73 represents repayment of outstandings on 1st July 1972 and the borrowings during 1972-73, therefore, are largely fresh advances for the year 1973-74. Similarly, outstandings on 30th June 1973 represent meinly borrowings for the crop year 1973-74 and only a small emount by way of outstandings from

Table 34: Milk and Egg Production and Sales of Milk and Eggs

	· 					3məl1 Fa	rmers							
operated h	No.of hold- ings	Mil Ani	ch mals	Buffa- loes pur-	Milk yield May	~~	4 seles	Milk yield May	Of Col.	7 sales		ont of 1 April 1		Inte-
	1.00 g 1.00 g 1.00 g	Buffe- loes	Cows	chased against M. T. loan	1971	•	5 to coop.	1972 to April 1973	10081	8 to coop.	Cash and Subsidy	Milk salds	Total	poid end of April
		1	2	3	Litres 4	Litres 5	Litres 6	Litres 7	Litres 8	Litres 9	ks. 10	Rs.	Rs. 12	1972 **s• 13
20.01 and more	1	2	4	-	850	175		795						
15.01-20.00	1	2	•	: <b>-</b>	360	_	-	880	. 🛥	_	_		: -	_
10.01-15.00	<b>4</b>	, 7	4	3	2775	1000	569	2740	1285	1008	263	392	655	96 116
7.51-10.00	9	į8	<b>3</b> .	. 9	5420	2695	1947	5470	2529	1973	1755	1707	3462	208
5.01- 7.50	19	31	7	12	10490	4820	3531	9810	4107	3045	1282	2013	3295	503
2.51- 5.00	18	30	8	14	7330	4590	3709	7612	3550	1970	1857	2793	4650	633
1.01- 2.50	. <b>.8</b>	10	1	6	3171	1891	1696	1780	918	865	1229	1318	2547	249
Upto 1.00	3	. <b>5</b>		3	1740	950	795	1493	945	907	324	379	703	109
Total	63	105	26	47	32136	16121	12247	30580	13334	9768	6710	8602	15312	1768

Table 34: (continued)

Size of operated holding		 psyment o	f loen April 1973	Interest paid	Balance out-			Poultry	'		
holding (acres)	Cash and Subsidy Rs. 14	Mil's sales Rs.	Total Rs. 16	May 1972 to April 1973 Rs. 17	standing 1st May 1973 Rs. 18	No.of poultry	Egg yield Mey 1971 to April 1972 20	Of Col.20 Sales	Egg yield May 1972 to April 1973 22	Of Col.22 Seles	
20.01 and			_	<u> </u>	_	2	125	<u> </u>	110	· · · · · · ·	•
15.01 - 20.00	_	-	<del></del>	-	-	10	400	<del>-</del>	355	<del>-</del> ,	
10.01 - 15.00	708	893	1601	70	813	18	1125		775	,	ы
7.51 - 10.00	1313	2059	3372	226	2537	23	1085	-	982	_	117
5.01 - 7.50	2827	2319	5146	454	4370	. 86	4700	1000	3265	300	
2.51 - 5.00	2329	2041	4370	525	6043	51	2 <b>7</b> 75	800	1955	275	
1.01 - 2.50	1169	851	2020	202	1882	21	1050	300	890	180	
Upto 1.00	746	1008	1754	68	720	4	250	100	190	135	
Total	9092	9171	18263	1545	16365	215	11510	2200	8522	890	
						<u> </u>	e de la esta esta esta esta esta esta esta est		(continu		

Tuble 34 : (continued)

Size of operated	No.of hold-	Milc Anim		Buffa- loes	Milk yield		.4 sales	Milk yield		.7 sales	Repayme of Apri	nt of 10	end end	Inte- rest	
holding (acres)	ings			pur- chased against M. T. loan	May 1971	Tote1	Of Col. 5 to co-op.	May 1972 to April 1973	Total	Of Col. 8 to co-op.	Cash and Subsidy	Milk sales	Total	peid end of April 1972	
		1.	2	3	Litres 4	Litres 5	Litres 6	Litres	Litres 8	Litres 9	Rs. 10	Rs.	Rs.	Rs.	
7.51 and more	5	5	4	2	2370	1110	843	2130	645	36 <b>7</b>	568	426	994	30	
5.01-7.50	6	7	3	4	1920	570	180	1660	599	416	240	126	366	86	Н
2.51-5.00	37	46	16	23	13365	6377	5153	14458	6825	4146	4360	2670	7030	517	118
1.01-2.50	39	48	11	30	13675	6881	567 <b>7</b>	15391	8259	6662	7808	3488	11296	646	
Upto 1.00	_ 16	23	3	17	6801	3801	2879	7378	4309	3532	3499	1588	5087	280	
Ni]	4	4	-	4,	1530	820	682	840	442	318	1321	362	1683	56	•
Total	107	 133	37	80	39661	19559	15414	41857	21079	15441	17796	8660	26456	1615	

Table 34: (continued)

Size of		ment of L 972 - Apr		Interest paid	Balance	· · · · · ·		Poultry			
operated holding (acres)	Cash and Subsidy	Milk Seles	Total	May 1972 to April 1973	standing 1st May 1973	No. of poultry	Egg yield Mey 1971 to April 1972	Of Col.20 Sales	Egg yield May 1972 to April 1973	Of Col.22 Sales	
	кз. 14	fis. 15	Rs. 16	ñs. 17	Rs. 18	19	20	21	22	23	
7.51 and more	280	469	749	3	257	31	1520	200	1025	150	•
5.01 - 7.50	1370	377	1747	112	2022	26	1125		900	· •	
2.51 - 5.00	4945	4609	9554	505	7055	113	5570	750	4160	205	
1.01 - 2.50	3524	5455	8979	1026	10322	123	5080	1600	4240	1140	119
Upto 1.00	3589	3629	7218	477	4930	32	1650	550	1725	415	
Nil	645	284	929	141	1387	5	285	-	265	50	
Total	14353	14823	29176	2264	25973	330	15230	3100	12315	1960	2

Table 35: Borrowings, Repayment and Outstanding Loans (Short, Medium and Long Term) for the Year 1972-73

						Sme	ll Farmer	<u>`s</u>					
Size of operated	No.of hold-	Si	ort term	- Crop	Loan				Medium 1	erm Loer	- Milch	Animal	5
holding (acres)		·Out- stand-	мераум 1972 <b>-</b> 7	3	Borrow-	stand-	5 amount		лерьу 1972-	·73	Borrow-	stand-	Of Col.
		ing lst July 1972	Prin- cipal	Inte- rest	during 1972-73	ing 30th June	overdue	ing 1st July	Prin- cipal	Inte-	during 1972-73	June	overdue
		1	2	3	4	19 <b>7</b> 3	6.	1972	8	9,	10	1973 11	12
20.01 and more	1	7650	5339	454	4050	4050 * 2311	<del>-</del>		_	-	_		
15.01 - 20.00	. 1	•	~	_		٠ ـ	٠,	-					
10.01 - 15.00	4	7803	7803	633	9408	9408	· 🕳	1234	1543	49	1000	718	120
7.51 - 10.00	9	17038	15979	1686	19993	19993 * 1059	-	4582	2085	92	-	2546	-
5.01 - 7.50	19	24641	23608	1919	26650	26650 * 1033	<b>-</b> ,	7958	3891	103	-	4437	<b>-</b>
2.51 - 5.00	18	16394	15818	1178	19180	19180 * 576		9041	3421	61	-	5582	<b>-</b> .
1.01 - 2.50	8	5208	5208.	424	5158	5158		3121	1462	-	-	1935	
Upto 1.00	. 3	1350	_	-	358	1708	<del>-</del> ,	2041	1305	•	-	736	-
Total	63	80084	73755	6294	84797	86147 * 4979		27977	13707	305	1000	15954	-

Table 35: (continued)

Size of				Lo	ng term	Loen -	SFDA			Long to	erm loan		,
operated holding (acres)	Out-	Out-	Out- stand-	Repay 1972-		Borrow- ings	stand-	Amour		Out-	Out-	insti- tutions Borrow-	
	stend- ing 1st July 1972	stand- ing 30th June 1973	ing lst July 1972		Inte- rest	during 1972-73	ing 30th June 1973	Prin- cipal	Inte- rest	stend- ing lst July 1972	stand- ing 30th June 1973	ings	
	13	14	15	16	17	18	19	20	2 <b>1</b>	22	23	24	25
20.01 and more	3000	3000	3902	99	135		3803	174	216		-		*Rs.2311 oustending from previou year not yet du
15.01 - 20.00	56	189	3500	-	320	3500	7000	<b>-</b> ,	-	-	<del>**</del> .	-	The second secon
10.01 - 15.00	150	1500	6280	-	<b></b>	<b>=</b>	6280	219	504	2075	2075		Of Col.23 overdue Prin.813; Int. 97.
7.51 - 10.00	375	3750	9737	287	338	-	9450	39 <b>5</b>	523	2022	1822	3000	*R. 1059 outstending from previous year not yet du Of Col.23 Overdue Prin. 374, Int. 82.
5.01 - 7.50	900	9000	34861	. 695	1570	<b>-</b> .	34166	882	1438	320	320	6500	*Rs.1033 outstanding from previous year not due. Of Col.23 overdue Prin.3
2.51 - 5.00	837	5 8375	13334	448	354	750	13636	165	740	400	400	5000	*Rs. 576 outstanding from previous year not due.
1.01 - 2.50	75	750	- 584	27	38	375	932	18	51		-	4500	- W
Upto 1.0	00 -	.=	-	-	-	-	-	• • •	· +	<b>-</b>	-	9500	<b>-</b>
Total	2693	26564	72198	1556	2755	4625	75267	1853	3442	. 4827	4617	28500	

Table 35 : (continued)

	200	:	<u> </u>	e i	<u>M</u>	erginel	Førmer <b>s</b>	. 177						
Size of operated	No.of hold-		SI	nort tarm	- Crop	Loen	=	* * * **	Medium	term L	 oen - Mil	ch Anima	als	
holding (acres)	ings	Out- stend- ing	Repay 1972-		Borrow- ings during		Of Col. 5 amount		Repay 1972-	ment 73	Borrow- ings	Out- stand-	Of Col.	•
		lst July 1972	Prin- cipal	Inte- rest	1972-73	30th June 1973	overdue	ing lst July 1972	Prin- cipal		during 1972-73	ing 30th June	amount overdue	
		1	2	3	4	5	6	7.	8	9	10	1973 11	12	
More then 7.51	5	5164	3165	533	2500	2500 * 1999	-	51 <b>7</b>	261	. 1		256	, -	-
5.01 - 7.50	6	3383	3383	366	4328	4328	-	2350	1340	40	1000	2050		Н
2.51 - 5.00	37	16959	15928	1249	18144	18144 * 1031	-	12163	5412	316		7018		122
1.01 - 2.50	39	16674	13915	1180	15685	15685 * 2759	1839	13774	5935	614	5000	10139	-	
Upto 1.00	16	2895	2445	202	3182	3182 * 450	<b>-</b> .	8399	4771	311	1000	4681	-	
Nii		650	450	26	75	* 200	-	1908	522	135	-	1386	-	
Total	107	45725	39286	3556.	43914	43914 * 6439	1839	39111	18541	1417	4000	 25530	 -	
	+						<u> </u>							

ize of persted	Medium Coop.	term -		Long te	rm Loan	- MFAL					erm Loan		
olding ocres)	Out- stend- ing	Out- stend- ing	Cut- stand- ing lst	Prin-	73 Inte-	Borrow- ings during 1972-73	stand- ing lst	Prin-	due Inte-	- Non- Out- stand- ing	Out- stend- ing	institutional Borrow ings	l Remarks
	lst July 1972 13	30th June 1973 14	July 1972 15	cipel 16	rest	18	July 1973 19	cipal 20	rest ?1	lst July 1972 22	30th June 1973 23	24	25
ore than								· ·	·				*Rs.1999 outstanding fro
7.51	3000	3000	10500	-	205	10500	21000	-	829	-	-	•	previous year not due.
5.01-7.50	1500	1500	14577		210	3000	17577	765	1089	'	-	600	•
.51-5.00	9000	9000	35082	655	898	500	34927	781	2019	8008	2008	15300	*Rs.1031 outstending fr previous year not due
51-2.50	2250	2250	21686	102	141	1300	22884	785	1270	500	500	12000	*Of Rs. 2759, outstanding from previous year Rs. 920 not due.
pto 1.00	1500	1,500	· <del>-</del> ,	=	-	•	-	•		673	673	2850	•
i]	-	<b>-</b> '	-		-	-		-	<del></del>	340	340	7000	*Rs.200 outstanding freprevious year not due
otel	17250	17250	81845	757	1454	15300	96388	 2331	5207	1902	 1902	 37750	

the previous period. No overdues were reported except in two cases of marginal farmers and this amount was overdue for last on; year. There was only a small rise in short term borrowing for the crop year 1973-74 over that in 1972-73 and this is observable in respect of both small and marginal farmers. Majority of the small and marginal farmers were members of the Primary Co-operative Credit Society and had lifted funds for crops. The average borrowing per household was low at Rs. 410 for marginal farmers as compared to Rs. 1346 for small farmers. Nearly 85 per cent of the loan lifted represented the cash portion of the total loan sanctioned, lifting of fertilizers, pesticides etc. being quite meagre.

Medium term loans are for two different purposes, namely purchase of milch animals and for purchase of Sugar Factory Shares. Of these two medium term loans only loans for milch animals formed the part of the SFDA-MFAL programme. Loans for Sugar Factory Shares are advanced, as per Reserve Bank scheme, to cultivators to become the members of the sugar factory in the co-operative sector. The would-be member bears the one-fourths cost of purchase of such a share and the balance three-fourths is advanced by the D.C.C. Bank as a medium term loan to the cultivator. The repayment period for such advances is five years the repayment being effected in five equal annual instalments plus interest due for the period. Barring a single small farmer no repayment of this loan, though due, has been reported resulting into Outstanding on 1st July 1972 and 30th June 1973 being almost equal in respect of both small and marginal farmers. These advances seem to have been rescheduled, except for interest due, and the recovery of principal is to start after the first crushing of cane at the Co-operative Sugar Factory, Marali (taluka Patan). The Agency has a proposal to advance one-fourth value of such Sugar Factory Shares as interest-free loans to small and marginal farmers and the advances as reported in Table 35 are not the result of such a proposal but are previous to it. The details of the Agency's proposal have been discussed in Chapter III.

Supply of milch enimels was an important item of both the programmes and since inception 47 small and 78 merginal farmers had taken the advantage of the medium term loan facility for purpose of milch animals. Only in two cases of merginal farmers second milch animal was purchased against the loan but only after fifty per cent of the principal and interest due to date had been repaid. Under the scheme the beneficiery farmer can get a maximum of three milch animals, one at a time and not all together, if the beneficiary at the time of applying for loan for a second animal has cleared fifty per cent of principal and interest due to date. All the three milch animals purchased as per rules are entitled to subsidy at 25 per cent and 33 1/3 per cent of cost for small and marginal farmers respectively.

The amount outstanding on 1st July 1972 is the result of various periods of repayment as will be seen from the disbursement of loans given below:

$\underline{\mathtt{Month}}$		<u>Small</u>	Marginal
1. November 2. January 3. September 4. November 5. December 6. January 7. February 8. November	1970 1971 1971 1971 1971 1972 1972	10 1 11 8 12 1	1 16 12 29 5 2
Total	· 4	47	· 78

Of these advances for milch animals 27 advances to small farmers and 19 to marginal farmers were by the Commercial Banks and the rest by D.C.C. Bank, Satara. The outstanding on 1st July 1972 is the result of milk sales to co-operatives by the beneficiaries and the subsidy peid on cost of milch animals by the Agency, the subsidy being only in respect of advances from D.C.C. Bank and not the Commercial Banks. Subsidy to loance beneficiaries of the Commercial Banks was paid in 1972-73 and is included in repayment for that year.

Borrowings (fresh) during the year 1972-73 were in respect of one small farmer and two marginal farmers. In addition to this two marginal farmers had secured loan for second milch animal having satisfied the conditions laid down by the Agency.

Repayment during the year 1972-73 was less than fifty per cent of outstanding on 1st July 1972. There seems to be a possibility that quite a few loanees might run into overdues specially when subsidy has, already, been accounted towards repayment and the balance outstanding and interest due thereon has to be repaid through milk sales only. The balance of repayment period to maturity of loan varies from barely four months for advances in November 1970 to thirty months for advances in November 1972. The details will be discussed under 'Investment in Dairying' subsequently.

'Investment in Dairying' subsequently.

As in case of medium term loans, long term loans have been given in two separate parts, long term loans under SFDA-MFAL forming one and the other long term loans previous to inception of the programmes. A total of 20 small farmer families had lifted 24 loans under long term investment in land for various purposes. Number of loans being more than the households has resulted from the criterion adopted for identification of beneficiaries the sole criterion being land held as per Village Form &A. In one case the same beneficiary has been granted two loans one for 'New Well' and the other for 'Repairs to Old Well'. In the other case a single family had four beneficiaries identified as small farmers and each of them had lifted loan for 'Land Development'. In respect of marginal farmers thirty-six families had been granted advances for investment in New Wells, Land Developmen etc. However, one of these families did not make use of the facility made available. In this particular case the beneficiary was granted loan for purchase of an Oil Engine. The beneficiary expected to get cash as a result of the loan being sanctioned and the necessary loan deed completed. The beneficiary intended to dispose off his previous oil engine and purchase a second-hand machine by way of replacement out of the funds made available by the bank. As is the normal practice the bank declined to pay cash and was willing to make the payment for a new oil engine on production of a receipt from the authorised dealer. The beneficiary ultimately did not purchase the oil engine and requested the bank to cancel the loan deed. During the survey it was brought to notice that this particular beneficiary relented his previous decision and applied afresh for the loan. The loan was senctioned again and the purchase of an oil engine had not meterialised by the end of the field-work.

The outstanding amount on 1st July 1972 is the result of 24 loans for 20 small farmer families and 35 loans for 35 marginal farmer families. The amounts are also the result of differing periods of loan issue and repayment of principal falling due. The outstanding as on 30th June 1973 have increased as a result of lifting of second instalment of the loan during the survey period. The investment works proposed have not been completed and some of the beneficiaries have run into overdues, the itemised overdues being as given below.

	ē.12		5.5	
Item	No. of benefi-	No over-	Overdues on	account of
	ciary families	dues	First instalment	Second
Small Farme			TIOOSTINGIIO	THEOREM
1. New Wells	6	2	-	4
2. Repairs to Old Wells	Ţ	1	-	•
<ul><li>3. Water Supply etc.</li><li>4. Oil Engine etc.</li></ul>	3	ĩ	-	<u>.</u>
5. Land Development	8 .	3	<u>,</u>	ī
Total	21	9	6	6
Merginal Fa	rmers			
1. New Wells	3	1		2
2. Repairs to Old Wells	3 2 8	-	-	2
3. Water Supply etc.		3	=	5
4. Land Development	22		<u> </u>	<u> </u>
Total	35	_ 9	9	17

The difference in the number of beneficiary families under small farmers arises as a result of one family having lifted loan for two items. Proportionately larger number of marginal farmers' families have run into overdues as compared to small farmers' families. Beneficiaries who have run into overdues after having lifted only the first instalment of the loan may have to face difficulties in completing the proposed works as second instalment of the loan will not be available until the overdues are cleared or the instalment overdue has been rescheduled.

Loans from non-institutional agencies are few and in most cases the land has been the security in possession of the moneylender, cultivator etc. These lands have been shown as leased out lands but really represent a clandestine loan operation.

## Employment for Sample Households

The sample households were 63 and 107 for Small Farmers' and Marginal Farmers' schemes respectively. Table 36 gives the family members, earners and occupational distribution of earners. The total population of small and marginal farmers' households was reported at 509 and 683 respectively. Economically active population was reported at 223 in respect of small farmers' households and 294 in respect of marginal farmers' households, the sexwise distribution being as follows.

	Small 1	Farmers	Marginal Farmer				
Sex	Total Popula- tion	Working force	Total Popula- tion	Working force			
Male Adults Female Adults Male Non-adults Female Non-adults	149 144 116 100	123 97 1 2	182 217 144 140	141 151 1			
Total	509	223	683	294			

Table 36: Family Members, Earners and Occupational Distribution of Earners according to Size of Operated Holding

olding	hold-																					,	
(Acres)	ings			·		8	-			Agr	1.	Sele rie		Non- egr	•	4 Wege Lab	e ou <b>r</b>	<del>-</del> -					5
		MA	MNA	FA.	FNA	MA	MNA	FA	FNA	М	F	M	F	M	F	M	F	_ M	F	M	F	M	F
More than 20.01	1	7	8	8	6	5	-	6	-	4	6	1	-			-	١_	<u>.</u>	, <b>4</b>		_	-	_
15.01 - 20.00	1	4	3	3	3	4	-	-	-	.3	.,-	~	· · · · · · · · · · · · · · · · · · ·	-	-	-	_	-	_	1	_	-	_
0.01 - 15.00	4	18	12	14	2	13	<del>-</del> .	10	• •	.9	10	1	<b>:</b>	- ,	-	-	-	<u>.</u> ,	₩.	.3	-	-	
7.51 - 10.00	9	24	8	28	20	22	<b>-</b>	19	1	17	18	2	_	1	=		-	1		-	-	1	1
5.01 - 7.50	19	41	34	39	22	34	1	25	_	30	22	3	-		,		•	-	-	-	<u></u>	2	·3
2.51 - 5.00	18	32	37	36	30	27	-	24	· ·	18	21	4	. =	4	· <b>-</b>	4	-	1	-	1		3	:3
1.01 - 2.50	8	19	6	12	10	14	1,+	10	1	4	5	2`			=	ند		1		1. <b>1</b>	. ⊨	. 6	5
jpto 1.00	<b>`3</b>	4	8	4	7	4	· <u>,-</u>	3		<del>/"</del> ,	1	, <u>, =</u> :	÷		<b>-</b> '		<b>-</b> _		÷	1		. 3	2
otal	63	149	116	144	100	123	- ī	97	- <u>-</u> - 2	85	 83	 13	ند در. نو	1	,- <u> </u>		<u>-</u> -					15	14

\* MA = Mele Adults. MNA = Male Non-Adults. FA = Female Adults. FNA = Female Non-Adults.

Fable:	36:	(continued)

	·								Mare	inal	Fern	ere		•	* **		•						
ize of operated nolding	No.0	of i-	Fem Mem	ily bers	*		No. Earr		 *		V	orki	ng i	n -	on	ly	• • • • 	1 +	2	ī	3 -	1	4
(Acres)	ing								;	[ Agr	i.	Sala ried	<b>5</b> -	3 Non- agri	-	wag Lat				, , , , , , , , , , , , , , , , , , ,			
·em en ege Per Toronomer	· .	. M.	A MNA	FA	FNA	MA	MNA	FA 	FNA	M	F	M	F	M	F	M	F	, M	F	_ M	- F	M	F
7.51 and more	5	19	9 14	18	5	12	· ·	9		7	7	1	- •	1		_	_	-		_ 1		2	2
5.01 - 7.50	6	10	9	14	: 9	8		10		7	8	_	- <b>-</b>			_		-		-	-	1	2
2.51 - 5.00	37	7	5 55	81	46	55	- 1	51	-	37	-45	6	_	4	_	_	-	1		3	_	5	6
1.01 - 2.50	39	5/	41	71	61	48	-	55	1	16	25	4	_	-	-	_	-	. 3	1	- 7	. 1	18	_
Upto 1.00	16	. 19	23	29	15	15	· ÷	23		4	-9	1	_	٠.	-	-	_	2		4	_2		12
Nil 	4	:	5 2	4	4	· 3	-	3	<b>-</b>	- 1	2		•	1.	-	٠,٠,٠	-	•	-	1	-	<u>-</u>	1

<sup>\*</sup> MA = Male Adults. MNA = Male Non-Adults. FA = Female Adults. FNA = Female Non-adults.

Non-adults, both male and female, formed an insignificant proportion of the working force. Numerically females formed a larger working force in respect of marginal farmers though as a proportion to total females it was lower than that for the males. The working force includes all those engaged in some productive activity other than domestic work.

Out of the total working males thirteen and twelve, respectively from small and marginal farmers' households, were solely engaged in salaried services and did not work in the family enterprise such as agriculture, animal husbandry etc. Three males, from small farmer households, mainly engaged in salaried services worked in the family enterprise. Similarly six males and one female, from marginal farmers' households, mainly engaged in salaried services worked in femily enterprise. For all practical purposes those engaged solely in salaried services might be left out. The rest of the working males, females and male and female non-adults were engaged either in agriculture, animal husbandry, wage labour or non-agricultural occupation etc. The distribution of male and female workers in agriculture, animal husbandry etc. is given below. Since the number of working non-adults was insignificant these have not been shown separately but are included in respective working force. working force.

	Small	Farmers	Margin	al Farmers	
•	Male	Female	Male	Female	
Agriculture Animal Husbandry Wage Labour Non-agricultural Occupation	109 21 15 8	97 23 14	121 30 30 26	149 61 52 4	
Total	153	134	207	216	

The total number of workers under agriculture differs as a result of animal husbandry not having been separately treated in Table 36. The rise in the number of workers in non-agricultural occupations is on account of four males and one female working in more than two occupations and these have not been separately shown in Table 36.

## Self-Employment in Agriculture

The actual days of employment in family agriculture are given in Table 37. Reference period for employment is May 1972 to end of April 1973. Total employment i.e. non-wage employment in agriculture consists of labour input on own ferm and labour input on other's farm in the nature of an exchange labour. There is a widespread practice of exchange labour, both human and bullock, in the region and since all the families report having received exchange labour this labour input needs to be considered as family labour input on the farm. Employment on own farm thus calculated was 64.25 and 62.18 days for males and females respectively for small farmers. This average employment per worker in agriculture refers to the twelve month period stated earlier and as can be seen is quite poor. The average employment per male and female worker did not differ significently in the first six size groups of operated holding. In the last two size groups, i.e. 1.1—2.5 acres and upto 1.00 acre, the average employment comes down substantially especially so in respect of female workers. workers.

			:		- 2 -		Sme]	1 Ferme	ers i			. <b></b>		
onth - s	ex	No. of		May 1	972 			Jun	e 1972			Jul	y 1972	
ize of perated olding acres)		Workers	Own ferm	As exchange labour (2)	(Cols.	Average per worker (4)	Own farm (1)	As ex- change labour (2)	(Cols.	Average per worker (4)	Own farm (1)	As ex- change labour (2)	(Cols.	Average per worker (4)
ore then	M F	4	22 9	<del>-</del> ,	22 9	5.50 1.50	19 30	-	19 30	4.75 5.00	53 20		53 20	13.25 3.33
5.01 <b>-</b>	M F	4	24	=	. 24	6.00	49	<u>.</u>	49	12.25	92	-	92	23.00
0.01 - .5.00	M F	12 10	27 25	13	40. 25	3.33 2.25	82	55	137	11.41	159 12	65 25	224 37	18.67 3.70
7.51 - .0.00	M F	19 19	51 43	21	72 43	3.79 2.26	135	84 10	219 14	11.52 0.73	230 34	80 45	310 79	16.31 4.15
5.01 - 7.50	M F	32 25	100 52		100 52	3.12 2.08	237 7	108	345 16	10.78 0.64	475 75	130 105	605 180	18.90 7.20
2.51 <b>-</b> 5.00	M F	23 24 .	51 54	<b>-</b> .	51 54	2.21 2.25	145 42	102	247 52	10.73 2.16	275 83	130 100	405 183	17.60 7.62
1.01 - 2.50	M F	11 10	11 10	<b>-</b> .	11 10	1.00	34 5	20 5	54 10	4.91 1.00	80 34	73 30	153 64	13.90 6.40
pto 1.00	M F	3	26 13	-	26 13	6.50 4.33	12 2	-	12 2	3.00 0.66	21 5	-	21 5	5.25 1.67
otel	M F	109	312 206	34	346 206	3.17	713 90	369 :	1082	9.92 1.27	1385 263	478 I 305	1863 568	17.09 5.35

onth -	0	No of		Augu	st 1972			eptemb	r 1972			Octobe	r 1972	
ize of perated colding scres)		No.of Workers		As ex- change labour (2)			ferm	As ex- change labour (2)	(Cols.		Own farm (1)	As ex- change labour (2)	(Cols. 1+2)	Average per worker (4)
More then 20.01	M F	4	25 85	-	25 85	6.25 14.17	7 45	-	7 45	1.75 7.50	12 5	-	12 5	2.00
15.01 - 20.00	M F	. <u>4</u>	35	-	35	8.75	11		11	2.75	11	-	11	2.75
10.01 - 15.00	M F	12 10	109 147	20 55	129 202	10.75 20.20	62 67	40	62 107	5.16 10.70	20 26	-	20 26	1.67 2.60
7.51 - 10.00	M F	19 19	134 334	120	134 454	7.00 23.90	40 180	25	40 205	2.05 10.79	74 59	<del>-</del>	74 59	3.89. 3.10
5.01 <b>-</b> 7.50.	M F	32 25	311 419	21 135	332 554	10.37 22.16	14 <b>1</b> 223	25	141 248	4.40 9.92	78 43	- -	.78 43	2.43 1.72
2.51 - 5.00	M F	23 24	147 399	160	147 559	6.39 23.29	63 238	20	-63 258	2.73 10.75	60 49	-	60 49	2.60 2.04
1.01 -	M F	11 10	38 115	80	38 195	3.45 19.50	12 54	10	12 64	1.09 6.40	7	<u>.</u> 2	7	0.63 0.70
Upto 1.00	M F	4 3	14		14 10	3.50 3.33	5		5	1.25	7.5		7 5	1.75
Total	M F	109 97	813 1509	41 550	854 2059	7.83 21.22	341 813	120	34 <b>1</b> 933	3.12 9.61	269 194		269 194	2.46

Month -	300	No.of		Novemb	r. 1972			Decemb	er 1972	•		Jenua	ry 1973	· v
Size of operated holding (acres)		Workers	Own form (1)	As ex- change labour (2)	Total (Cols. 1+2) (3)	Average per worker (4)	Own farm (1)	As ex- change labour (2)	(Cols.	Average per worker (4)		As ex- change labour (2)		Average per worker (4)
More than 20.01	. M	4 6	46 102	••• ••• .	46 102	11.50 17.00	51 62	- -	5 <b>à</b> 62	12.75 10.33	9	-	9 1	2.25 0.17
15+01 - 20-00	M F	4	28 -	_	28	7.00	16	<del>-</del>	16	4.00	15	: <del>-</del> -	15	3.75
10.01 - 15.00	M F	12 10	110 133	:== ;==	110 133	9.16 13.30	66 47	-	66 47	5.50 4.70	15 3	-	15 3	1.25 0.30
7.51 - 10.00	M F	19 19	157 163	-	157 163	8.26 8.53	92 101 •	-	92 101	4.84 5.31	41 15	<b>-</b>	41 15	2.15 0.79
5.01 - 7.50	M F	32 25	303 256		303 256	9.36 10.24	20 <u>1</u> 140	<u></u>	201 140	3.28 5.60	65 38	. <u>.</u>	65 38	2.03 1.52
2.51 -	M F	23 24	204 204	-	204 204	8.87 8.50	141 126	-	141 126	6.08 5.25	37 7	. <del>.</del>	37 7	1.60 0.29
1.01 - 2.50	M F	10	68 59	-	68 59	6.18 5.90	49 64		49	4.45 6.40	8 9	-	8 9	0.72 0.90
jpto 1.00	M F	4	8 7	-	8 7	2.00 2.33	1		1 <b>1</b>	0.25	-		-	••
Total	M F	109 97	924 924		924 924	8.47 9.52	617 540		·617	5.66 5.56	190	7 7	190 73	1.74 0.75

T.ble 37: (continued)

Month -				Februa	ry 1973			March :	1973			April	1973		to Ap	May 1972 ril 1973
Size of operated holding (acres)	ex	No. of Workers	Own farm	As ex- change labour (2)	(Cols. 1+2)	Average per worker (4)	Own form	As ex- change labour (2)	(Cols.	Average per worker (4)	Own farm (1)	change Labour	(Cols.	Average per worker (4)	Total (Cols.	Average per worker
More then 20.01	M F	4	5		5	1.25	17 21	- -	17 21	4.25 3.50	- <del>-</del>	-	4	1.00	270 380	67.50 63.33
15.01 <b>-</b> 20.00	M	4	-	<u>-</u>	-	-	-,	Ī	<b>:</b>	<b>-</b> <b>-</b> 3€.	-		Ξ	<b>-</b> , .	281	70.25
10.01 -	M F	12 10	15 4	-	15 4	1.25	23 15	-	23 15	1.92 1.50	13	_	13 4	1.08 0.40	8 <u>5</u> 4 603	71.16 60.30
7.51 - 10.00	M F	19 19	47 25	-	47 25	2.47 1.31	60 73	-	60 73	3.15 3.84	* 8 1	_	8 1	0.42	1254 1232	66.30 64.84
5.01 - 7.50	M F	32 25	59 22	-	59 22	1.84	64 65	4	68 65	2.15 2.60	34 29		34 29	1.06 1.16	2331 1643	72.84 65.72
2.51 - 5.00	M F	23 24	57 34	-	57 34	2.47 1.41	39 64		39 64	1.69 2.67	25 14	v - 1 <u>***</u> ;	25 14	1.08	1476 1604	64.17 66.83
1.01 -	M F	11 10	11 3	-	11 3	1.00	26 26	-	26 26	2.36	7	-	. <b>?</b>	0.63	444 522	40.36 52.20
Upto 1.00	M F	4	± -	-			-	-		=	† `	•	<u>.</u>	• . • .	94 48	23.50 16.00
Total	M F	109 97	194 88		194	1.78	229 264	4	233 264	2.10 2.72	91 59		91 59	0.83 0.60	7004 6032	64.25 62.18
<u>-</u>							• • •			,— — — ·		- ,-, <b>-</b> , -		(00	ntinued	)

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						_ <b></b>	Mergi	inal Fa	rmers			••	3	
Month -	Sex	No. of		May	1972			Jun	e 1972			Ju	ly 1972	?
Size of operated holding (acres)		Workers	Own	change labour	(Cols.	Average per worker (4)	Own ferm (1)	As ex- change labour (2)	(Cols.	Average per worker (4)	Own farm	As ex- change labour (2)	(Cols.	Average per worker (4)
7.51 and more	M F	10 9	36 30	10	46 30	4.60 3.33	79 16	35 5	114	11.40	142 19	61 26	203 45	20.30 5.00
5.01 - 7.50	M F	8 10	22 15	-	22 15	2.75 1.50	69 11	40	109	13.62 1.10	135 6	65 71	200 77	25.00 7.70
2.50 <b>-</b> 5.00	M F	46 51	144 109	19 10	163 119	6.54	326 66	199 66	525 132	11.41 2.58	633 167	261 263	894 430	19.34 8.43
1.01 - 2.50	M F	44 56	124 122	26 -	150 122	3.40 2.17	228 34	134 56	362 90	8.22 1.60	437 100	229 247	666 347	15.13 6.19
Upto 1.00	M F	13 23	25 24	-	25 24	1.92 1.04	53 23	40 10	93 33	7.15 1.43	78 40	48 72	126 112 -	9.69 4.87
Nil	M F	• :	-		-	-	-	-	:	-	-	i e lyeely See t		The second secon
Total	M F	121 149	351 300	55 10	406 310	3.35	755 150	448 137	1203 287	9.94 1.92	1425 332		2089 1011	17.26 6.78

Table 37: (continued)

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Table 37 : (continued)

Month -	 Sex	No. of		August	1972			Septemi	oer 197	2		Octobe	er 1972	
Size of operated holding (acres)			Own farm (1)	As ex- change labour (2)	(Cols	worker	Own farm (1)	As ex- change labour (2)	(Cols. 1+2)	Average per worker (4)	Own ferm (1)	As ex- change labour (2)	Total (Ccls. 1+2) (3)	Average per worker (4)
7.51 end	M F	10 9	56 153	11 56	67 209	6.70 23.22	35 86	5	35 91	3.50 10.01	19 16	-	19 16	1.90 1.77
5.01 <b>-</b> 7.50	M F	10	62 111	20 81	82 192	10.25 19.20	15 20	<u> </u>	15 20	1.87 2.00	29 20	_	29 20	3.62 2.00
2.51 - 5.00	M F	46 51	378 763	50 380	428 1143	9.30 22.41	108 357	49	108 406	2.34 7.96	98 96	10	98 106	2.13
1.01 - 2.50	M F	44 56	321 655	70 <sup></sup> 391	391 1046	8.99 18.67	112 235	23	112 258	2.54 4.60	97 91	<del>-</del>	97 95	2.20 1.69
Upto 1.00	M F	13 23	74 165	10 85	84 250	6.46	21 60	20	21 80	1.61 3.47	21 22	. uds 	21 22	1.69 0.91
Nil	M F		- -					1 <b>44</b> 7 <b>44</b> 7 	-	•	- ->	-	<b>.</b>	/ <b>=</b>
Total	M F	121 149	891 1847	161 993	1052 2840	8.69 19.00	291 758	97	291 855	2.40 5.73	265 244	14	265 258	2.19 1.63

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Month -	Sex	No. of		Novemb	er 197	2		Decem	ber 197	2		Janua	ry 197	3
Size of operated holding (acres)		Workers		As exchange labour (2)	(Cols	Average per worker (4)	Own ferm	As ex- change labour (2)	(Cols.	Average per worker (4)	Own farm (1)	As ex- change labour (2)		Average per worker (4)
7.51 and more	M	10 9	111 117		111 117	11.10 13.00	46 38	5	46 38	4.60 4.22	6 8	<b>-</b> .	6	0.60
5.01 - 7.50	M F	8 10	84 93	-	84 93	10.50 9.30	51 35	-	51 35	6.37 3.50	24		24 7	3.00 0.70
2.51 - 5.00	M F	46 51	394 387	10	394 397	8.52 7.78	247 225	-	247 225	5.23 4.41	89 40	-	89 40	1.93 0.80
1.01 -	M F	44 56	293 311	, <b></b>	293 311	6.65 5.55	205 165	-	205 165	4.66 1.94	82 29	<u>-</u> `	82 29	1.86 0.51
Upto 1.00	M	13 23	60 63	-	60 63	4.61	39 32	-	39 32	3.00 1.39	12 13	-	12 13	0.92 0.56
NII	M F	•	=	-	<b>2</b> ,		-,	-	-	. <del>-</del>	-	-	-	-
Total	M F	121 149	942 971	10	942 981	7.78 6.58	588 495		588 495	4.85 3.32	213 97	 -	 213 97	1.76 0.65

Table 37 : (continued)

Month				Februa	ry 1973			March :	1973			Apri:	1 1973			May 1972 ril 1973
Size of operated holding (acres)	Sex	No. of Workers	own :	As ex- change labour (2)	Total (Cols. 1+2) (3)	Average per worker (4)	form	As exchange labour (2)	(Cols.	Average per worker (4)	Own farm	As ex- change labour (2)	Total (Cols. 1+2) (3)	Average per worker (4)	(Cols.	Average per worker
7.51 end	M F	10 4	6	.= .=	6	0.60 0.44	12 12	=	5 12	0.50 1.33	2	<b>.</b>	2	0.20	660 591	110.00 147.75
5.01 - 7.50	M F	8 10	25 22	<del>-</del>	25 22	3.12 2.20	15 12		15 12	1.87	13 3	=	13 3	1.62 0.30	669 <b>507</b>	83.73 50.70
2.51 5.00	M F	46 51	64 52	<u> </u>	64 52	1.39	67 40	-	67 40	1.45	59 42		59 42	1.28	3136 3132	68.17 61.41
1.01 -	M F	44 56	75 70	· <u> </u>	75 70	1.70 1.24	60 52	: <del>**</del> : <del>**</del>	60 52	1.36 0.92	32 35	<u>.</u>	32 35	0.72 0.62	2525 2620	57.38 46.78
Upto 1.00	M F	13 23	7	-	7	:0 <u>.53</u> ,	12 22	-	12 22	0.92	6	<b>4</b>	6	0.46 0.13	50 <b>7</b> 653	39.00 28.39
Nil	M F	,=	-	-	, <del></del> 	<del>,</del> ,	-	-		•		<del>∜.</del> •¥		# #	<b>-</b> ' ·	:
Total	M F	121 149	177 148		177 148	1.46	159 138	-	159 138	1.31	112 83		112 83	0.92 0.55	7497 7503	61.95 50.35

In case of merginal farmers, employment on femily farm was 61.95 and 50.35 days per male and female worker respectively. There is, almost, no consistency in the average labour days per male and female worker between various size groups. The differences arise not only on account of the category of land held, irrigation facility etc. but also as a result of wage labour employment available during the year. This is particularly important in respect of marginal farmers as earnings from wage labour was an important source of cash income for quite a few households.

Kharif is the most important season and the employment during the six month period May to end of October was at the highest, employment in the subsequent six months November-April being generally at a low level. The seasonal pattern is equally clear, the average per acre labour input rising upto end of July and August in respect of both males and females and then once again going down. July and August were the peak periods of employment for males and females respectively and the average employment per worker during this period was 17.09 and 17.26 days per male worker in respect of small and marginal farmers respectively. The average labour input per female worker during the month of August was 21.22 and 19.00 days in respect of small and marginal farmers. On the whole females participated in family agriculture almost equally with the males.

Table 38 gives the average per acre employment of family and hired labour for various size groups. There are variations in per acre labour input of family and hired labour. Hired male labour was quite meagre at 2.49 days per acre and was inveriably less than the average for family male labour. The average in respect of female labour was exactly opposite of that in respect of male labour, the hired labour input being 21.46 days per acre to 15.99 days per acre for family labour. This was so in respect of small farmers. In respect of marginal farmers per acre input of hired male and female labour was generally less. The average per acre input of male labour (family plus hired) was almost twice in respect of marginal farmers as compared to small farmers, the average per acre female labour input being nearabout the same for both the sets of farmers. The reasons leading to that are difficult to explain except that the marginal farmers' cultivation had to be more labour intensive for want of adequate machinery and implements. However, this does not sufficiently explain the facts and needs a little more probing into the matter.

## Employment in Animal Husbandry

Monthwise days of employment in Animal Husbandry are given in Table 39. Total employment for the twelve-month period May 1972 to April 1973 for males and females happens to be as below.

Total Wor	<del></del>		al oyment (days)	Average per worker (days)
	Small F	armers		•
Male Female	21 23		2,743 2,749	130.61 119.52
	Margina	1 Farmer	<u>'s</u>	,
Male Female	30 61		3,124 7,346	104.13 120.42

Table 38 : Per Acre Employment of Family and Hired Labour in Agriculture

Size of operated holding (acres)	Operated area (acres)	Sex	Family labour employed (days)	Hired labour employed (days)	Total labour employed (days)	Average per acre employment of family labour (days)	Average per acre employment of hired labour (days)	Average per acre employment (days)	•
More than 20.01	22-18	Male Female	270 380	10 245	280 625	12.02 16.92	0.44 10.91	12.47 27.86	·
15.01 - 20.00	18-13 ½	Male Female	281	43 269	324 269	15.32	2.34 14.66	17.66 14.66	
10.01 - 15.00	49-00	Male Female	854 603	55 1023	909 1626	17.42 12.30	1.12	18.55 33.18	
7.51 - 10.00	78-21	Male Female	1254 1232	245 1782	1499 3014	15.96 15.69	3.12 22.69	19.08 38.38	
5.01 - 7.50	124-14	Male Female	2331 1643	451 3243	2782 4886	18.74 13.21	3.62 26.07	22.37 39.28	139
2.51 - 5.00	,67-24	Male Female	1476 1604	122 1359	1598 2963	21.83 23.72	1.80 20.10	23.64 43.82	
1.01 - 2.50	15-16	Male Female	444 522	2 158	446 680	28.83 33.89	0.13 10.25	28.96 44.15	
Upto 1.00	1-21	Male Female	94 48	13 18	107 66	61.64 31.47	8.52 11.80	70.16 43.27	
Total	377-07 ½	Male Female	7004 6032	941 8097	7945 14129	18.56 15.99	2.49 21.46	21.06 37.45	

				Marg	inal Farme	rs	•		
Size of operated holding (acres)	Operated area (acres)	Sex	Family labour employed (days)	Hired labour employed (days)	Total labour employed (days)	Average per acre employment of family labour (days)	Average per acre employment of hired labour (days)	Average per acre employment (days)	
7.51 and more	43-35불	Male Female	660 591	53 786	713 1377	15.03 13.46	1.20 17.90	16.23 31.36	
5.01 - 7.50	36-25 <del>2</del>	Male Female	669 50 <b>7</b>	45 416	714 923	18.22 13.83	1.22	19.45 25.18	
2.51 - 5.00	133-26	Male Female	3136 3132	367 2507	3503 5639	23 • 46 23 • 43	2.74 18.75	26.20 42.19	
1.01 - 2.50	71-01	Male Female	2525 2620	94 1076	2619 3696	35.49 36.90	1.32 15.15	36.81 52.05	140
Upto 1.00	11-21	Male Female	50 <b>7</b> 653	14 87	521 740	44.08 56.78	1.21 7.56	45.29 64.35	0
Nil	-	Male Female	-	<b>-</b>	-	<u>-</u>	-	-	
Total	296-29	Male Female	7497 7503	573 4872	8070 12375	25.26 25.28	19.30 16.41	44.58 41.72	

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Tuble 39	: च्या	ployment	in A	nimal Hus	sbandr	<b>y</b> .		este altr						
Month -		. <b></b> 3	Ma;	y 1972	- ' Jų	ne 1972		ll férmer uly 1972	=·	st 1972	Septer	nber 1972	Octo	 ber 1972
Size of operated holding (acres)	Sex	No.of workers	work	Average per worker		Average per worker		Average	Work.	Average per worker		Average		Average
More than 20.01	M F	-		-			-			-				
15.01 -	M F	1	25 -	25.00	10	10.00	-	_	-,	-	20	20.00	21	21.00
10.01 - 15.00	M F	2 2	10 51	5.00 25.50	15 60	7.50 30.00	15 46	7.50 23.00	20 31	10.00	20 45	10.00° 22.50		15.00 20.50
7.51 - 10.00	M F	5 · 5	72 15	14.40 3.00	65 20	13.00	67	13.40	68	13.60	60	12.00		12.40
5.01 ÷ 7.50	M F	7 8	128 94	18.28	110 83	15.71 10.37	98 <b>78</b>	14.00 9.75	92 62	13.14 7.75	125 120	17.85 15.00	127 123	18.14 15.37
2.51 - 5.00	M F	1 3	15	5 <b>.</b> 00	ź <u>0</u>	6.66	32	10.66	40	13,33	20	6,66	20	6.66
1.01 - 2.50	M F	2	31 21	7.75 10.50	30 15	7.50 7.50	31 24	7.75 12.00	31 16	7.75 8.00	30 15	7.50 7.50	31 16	7.75 8.00
Upto 1.00	M F	1 3	61	20.33	50	16.66	31	10.33	26	8.66	¥0	13.33	40	13.33
Total	M F	21 23	266 257	12.66	230 248	10.95 10.78	211	10.04	211 175	10.04	255 240	12.14 10.43	271 270	12.90 11.73

Month			November 1972		December 1972		January 1973		February 1973		March 1973		April 1973		Total May 1972 to April 1973	
Size of operated holding (acres)	Sex	No. of Workers	days	Average per worker	Work days			Average per worker	Work days	Average per worker	Work days	Average per worker	Work days	Average per worker	work	Average per worker
More than 20.01	M F	-	-	· •			-			-	 : <u>-</u>	-		_	-	-
15.01 - 20.00	M F	1			· .	- 1	a. • • • • • • • • • • • • • • • • • • •	-	, <u>-</u>	-	_		<u>.</u>	<b>-</b>	76 -	76.00
10.01 - 15.00	M F	2 2	30 40	15.00 20.00	20 46	10.00	15 46	7.50 23.00	21 43	10.50 21.50	15 50	7.50 25.00	15 50	7.50 25.00	226 549	113.00 274.50
7:51 - 10,00	M F	5	60 -	12.00	56 -	11.20	40	8,00	40	8.00	51 15	10.20	50 15	10.00 3.00	691 95	138.20 19.00
5.01 <b>-</b> 7.50	M F	<b>7</b> 8	100 85	14.28 10.62	86 86	12.28 10.75	77 96	11.00 12.00	86 78	12.28	96 90	13.71 11.25	95 80	13.57 10.00	1220 1075	174.28 134.37
2.51 - 5.00	M F	1 3	50	16.66	35	11.66	20 50	20.00 16.66	20 55	20.00 18.33	33	11.00	36	12,00	40 406	40.00 135.33
1.01 - 2.50	M F	4 2	40 30	10.00	41 35	10.25 17.50	41 30	10.25 15.00	38 28	9.50 14.00	31 15	7.75 7.50	30 15	7.50 7.50	405 260	101.25
Upto 1.00	M F	1 3	10 15	10.00	15 16	15.00 <sub>0</sub> 5.33	20	20.00 6.66	20 25	20.00 8.33	10- 20	10.00	10 20	10.00	85 364	85.00 121.33
Total	M F	21 23	240	11.42	218 218	10.38	213	10.14 10.52	225 229	10.71	203 223	9.66 9.69	200	9.52 9.39	2743 2749	130.61 119.52

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Table 39 : (continued)

			,				Margir	ial Ferme	rs						
Month -	Sex	No. of	Ma	y 1972	Jun	e 1972	Ju	Ly 1972	Augu	st 1972	Septer	mber 1972	Octo	ber 1972	
Size of operated holding (acres)		Workers	Work days	Average per worker	Work days		days	Average per worker	Work days	Average per worker	Work days	Average per worker	Work days	Average per worker	
7.51 and more	M F	2 4	3 48	1.50 12.00	70	17.50	46	11.50	41	10.25	55	13.75	51	12.75	•
5.01 - 7.50	M F	4 4	. 10 56	2.50 14.00	69	17.25	14 56	3.50 14.00	32 21	8.00 5.25	20 45	5.00 11.25	30 55	7.50 13.75	
2.51 - 5.00	M F	12 21	141 275	11.75 13.09	90 243	7.50 11.57	48 204	4.00 9.71	125 162	10.41 7.71	86 230	7.16 10.95	85 237	7.08 11.28	
1.01 -	M F	8 20	94 256	11.75 12.80	119 210	14.87 10.50	87 156	10.87 7.80	164 121	20.50 6.05	90 156	11.25	102 161	12.75 8.05	
Upto 1.00	M F	4 9	76 173	19.00 19.22	60 139	15.00 15.44	61 104	15.25 11.55	70 81	17.50 9.00	60 85	15.00 9.44	55 86	13.75 9.55	
Nil	M F	3	46	15.33	40	13.33	41	13.66	51	17.00	50	16,66	50	16.66	
Total	M F	30 61	324 854	10.80	269 771	8.96 12.63	210 607	7.00 9.95	391 477	13.03	256 621	8.53 10.16	272 640	9.06 1.49	•

Table 39 : (continued)

Month -	Sar	No. of	Nove	mber 1972	Dece	mber 1972	Jenu	ary 1973	Febr	üəry 19 <b>73</b>	Mar	ch 1973	Apr	il 1973		May 1973 pril 1973
Size of operated holding (acres)	-	Workers	Work days	Averege per worker	Work dyas	Average per worker	Work days	Average per worker	Work days	Averege per worker	Work daya	Average per worker	Work deys	Average per worker	Total work days	Averege per worker
7.51 and more	M F	2 4	40	10.00	51	12.75	25 56	12.50 14.00	28 55	14.00 13.75	8 47	4.00 11.75	10 50	5.00 12.50	74 610	37.00 152.50
5.01 <del>-</del> 7.50	M F	4	35	8.75	10 30	2.50 7.50	10 55	2.50 13.75	5 47	1.25 11.75	5 35	1.25 8.75	35	8.75	136 539	34.00 134.75
2.51 <b>-</b> 5.00	M F	12 21	117 222	9.75 10.57	125 224	10.41	119 231	9.91 11.00	113 213	9.41 10.14	92 195	17.66 9.28	105 195	8.75 9.28	1246 2631	103.83 125.28
L.01 - 2.50	M F	8 20	65 110	8.12 5.50	10 135	1.25 6.75	50 147	6.25 7.35	60 158	7.50 7.90	71 156	8.87 7.80	61 130	7.62 6.50	973 1896	121.66 94.80
1.00	M F	4 9	43 60	10.75 6.66	52 65	13.00 7.22	50 65.	12.50 7.22	50 63	12.50 7.00	59 70	14.75 7.77	59 70	14.75 7.77	695 1061	173.75 117.88
N11	M F	3	55	18.33	56	18.66	56	18.66	53	17.66	56	18.66	55	18.33	609	203.00
Total	M F	30 61	225 522	7.50 8.55	197 561	8.56 9.27	254 610	8.46 10.00	256 589	8.53 9.65	235 559	7.83 9.16	235 535	7.50 8.77	3124 7346	104.13

Proportionately larger number of workers, both male and female, to total workers were employed in animal husbandry amongst marginal farmers than small farmers. This has affected the average per worker employment of males, the everage employment being 130.61 days for small farmers as against 104.13 days for merginal farmers. Average employment of female workers was the same for small and marginal farmers. The prospects for additional employment resulting from supply of milch animals are difficult to judge. After all majority of the cultivators have some livestock and an addition of one or two more animals is not likely to add much to the existing employment that can be really observable and assessed. Thus, any perceptible addition has to be largely ruled out so long as the cultivator has not taken to dairying and animal husbandry as an occupation and an equally important source of income and employment as agriculture. In the short period of the field-work the changes in income from dairying will be observable either in terms of cash income resulting from sale of milk and milk products or by way of increased consumption of these products. As noted under 'Sources of Income' even rise in income has not materialised, for reasons stated, and the consumption has remained almost at the previous year's level.

#### Wage Labour Employment

Monthwise wage labour employment in respect of small and marginal farmers is given in Table 40. Amongst small farmers all the size groups did not look upon wage labour as a source of income and only the last five size groups, i.e. 7.5-10 acres to Upto 1.00 acre, report employment in wage labour. All the size groups report wage labour as a source of income in respect of marginal farmers. Wage labour employment was an important source of cash income for marginal farmers even though the addition to total income from this source was not much. Total employment for the twelve month period, May 1972 to April 1973, was as given below.

Total_wo	rkers	1 - 1 ' . L	Total employ- ment (days)	•	Average employ- ment (days)
,		Small Farmers			
Male Female	15 14		1687 1434	•	112.46 102.42
•		Marginal Farm	ners		
Male Female	30 52	, , , ,	3696 6403		123.20 123.13

The employment in wage labour is essentially need based resulting from lack of alternative self-employment opportunity. Larger number of workers amongst marginal farmers getting more average per worker employment, as wage labourers, is therefore quite obvious when considered in relation to the resources the marginal farmers command.

#### Employment in Non-Agricultural Occupations

Table 41 gives employment in non-agricultural occupations pursued by small and marginal fermers. Most of the households represented here belong to artisans such as blacksmiths and carpenters etc. the rest of the occupations such as grocers, tailors etc. being meagrely reported. Total employment for the twelve month period, May 1972 to April 1973, was reported as below:

Table 40 : Monthwise Wage Labour Employment

	,					Smell	Farmer	rs							
Month -				Mey 1	972	<del></del>		June	1972			July	1972		
Size of operated holding (acres)	Sex.	No. of workers	Work days	Average per worker	Wages recei- ved Rs.	Average weges per worker Rs.	Work days	Average per worker	Wages recei- ved Rs.	Average weges per worker - Rs.	Work days	Average per worker	recei-	Average wages per worker Rs.	
More than 20.01	M F	-	<u>.                                    </u>	-	<b>-</b> ,		-	<u>-</u>		-	-	-	-	-	
15.01 - 20.00	M F		· -	-	-			. =	-	-	-	-	-	-	
10.01 - 15.00	M F	<u>.</u>	-	-	<u>-</u>	<b>.</b>	-	-	-	-	-	-	-	-	146
7.51 - 10.00	M F	1	-	<u> </u>	<b>-</b> `.	-		<b>-</b>	-	-		_	-	-	
5.01 - 7.50	M F	3	25 14	12.50 4.66	65 21	32.50 7.00	20 28	10.00 9.33	50 42	25.00 14.00	25 40	12.50 13.33	60 50	30.00 16.66	
2.51 - 5.00	. M F	3	30 8	10.00 2.66	90 12	30.00 4.00	23 16	7.66 5.33	69 24	23.00 8.00	23 23	1.33 7.66	12 ' 33	4.00 11.00	
1.01 -	M F	6 5	42 5	7.00 1.00	126 7	21.00 1.40	35 30	5.83 6.00	100 40	16.67	34 45	5.67 9.00	87 59	14.50 11.80	
Urto 1.00	M F	3 2	45 10	15.00 5.00	90 15	30.00 7.50	42 30	14.00	84 45	28.00	35 30	11.66 15.00	70 45	23.33 22.50	
Total	M F	15 14	142 37	9.46 2.64	371 55	24.74 3.92	120 104	8.00 7.42	303 151	20.20 10.78	98 138	6.53 9.85	229 187	15.26 13.35	

onth -	<del>-</del>			August	1972				Septemb	er 1972			October	1972	
ize of persted olding acres)	Sex	No. of workers	Work days	Average per worker	Wages recei- ved	per worker		Work days	Average per worker	recei-	Average Wages per Worker Rs.	Work days	Average per worker	Wages recei- ved	Average wages per worker Rs.
ore then	M F	-	-	· =	·	<b>-</b>		-	-	. =					-
15.01 <b>-</b> 20.00	M F	- -	-	-	., <u>=</u>		•	-	-	=	- -	-	-	-	-
10.01 - 15.00	M F	-	-	2	· _ ·	-			=	<u> </u>	· <u> </u>	( -	<u>-</u>	-	-
7.51 - 10.00	M F	1		. <b>-</b>	-	-		-	-	<del>.</del>	<b>-</b>	-	<u>-</u>	-	-
5.01 - 7.50	M F	<b>2</b> 3	25 40	12.50 13.33	50 50	25.00 16.66		25 40	12.50 13.33		25.00 17.66	18 30	9.00 10.00	36 30	18.00
2.51 - 5.00	M F	3	14 20	4.66 6.66	32 26	10.66 8.66		28 30	9.33 10.00	64 39	21.33 13.00	24 33	8.00 11.00	52 42	17.33 14.00
1.01 -	M F	6 5	43 40	7.16 8.00	104 51	17.33 10.20		41 43	6.83 8.60	90 55	15.00	50 53	8.33 10.60	112 67	18.67 13.67
ipto L.00	M F	3 2	27 35	9.00 17.50	60 52	20.00 26.00		24 30	8.00 10.00	60 43	20.00 21.50	25 28	8.33 14.00	63· 40	21.00 20.00
otal	M	15°	109 135	7.26 9.64	246 179	16.40 12.78		118 143	7.86 10.21	264 190	17.60 13.57	117 144	7.80 10.28	263 179	17.53 12.78

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ionth -	Sex	No. of		Novembe	r 1972			Decembe	r 1972			January	1973	
ize of perated olding acres)		workers	dork deys	Average per worker	recei-	Average wages per worker ks.	Work days	Average per worker	wages recei- ved Rs.	Average wages per worker Rs.	Work days	Average per worker	recei-	Average wages per worker Rs.
ore than	M F	-	-	_	-				<b></b>					i-
5.01 - 0.00	M F	 <b>:</b> .	-	<u> </u>		- · · · · · · · · · · · · · · · · · · ·	_		-	_	<b>-</b>	-	•	-
0.01 - 5.00	M F	- "	~	# ^	-	-		_		= -	- -	-	-	
7.51 - 0.00	M F	1	-	<del>-</del>		-	<b>8</b>	8.00	24 12	24.00 12.00	10	10.00	30	30.00
5.01° <del>-</del> 7.50	M F	<b>2</b> 3	23 34	11.50 11.33	61 46	30.50 15.33	16	4.00 5.33	16 28 -	8.00 9.33	18 22	,8°00 3°00	16 44	22.00
2.51 <b>-</b> 5.00	M F	3	14 23	4.66 7.66	32 30	10.66	40 35	13.33	95 65	31.66 21.66	45	7.33	38 115	12.66 38.33
1.01 - 2.50	M F	6	23 20	3.83 4.00	59 25	9.83 5.00	50 22	8.33	140	23.33 8.80	55 25	9.16 5.00	74 155 50	24.66 25.83
pto 1.00	M F	3 2	4Q 35	13.33 17.50	90 75	30.00 <sup>(2)</sup> 37.50	30 15	10.00 7.50	67 30	22.33 15.00	25 12	8.33 6.00	60 24	10.00 20.00 12.00
otu <u>l</u>	M	15 14	100 112	6.66	242 176	16.13 12.56	136 96	9.06 6.85	 342 179	22.80 12.78		10.20		26.92 14.44

Table 40 : (continued)

Month -	90	N		February	1973	• • • • • •		March	1973	
Size of operated holding (acres)	Sex	No. of workers	Work days	Average per worker	Wages recei- ved (Rs.)	Average wages per worker (Rs.)	Work deys	Average per worker	Wag s racei- ved (Rs.)	Average wages per worker (Rs.)
More than 20.01	M F	-		-	- -		.i		_	
15.01 - 20.00	M F	-		. <b>-</b>	-	-	· -	-		. <del></del>
10.01 - 15.00	M F	\$ <b>≠</b> . <b>−</b>	-	-	-	-	-	· -	· -	. · . <del>-</del>
7.51 - 10.00	M F	1	15 10	15.00 10.00	45 20	45.00 20.00	20 12	20.00 12.00	60 24	60.00 24.00
5.01 - 7.50	M F	3.	25 27	12.50 9.00	75 54	37.50 18.00	35 43	17.50 14.33	105 86	52.50 28.66
2.51 - 5.00	M F	3 .	55 30	18.33 10.00	165 60	55.00 20.00	52 35	17.33 11.66	156 70	52.00 23.33
1.01 - 2.50	M F	6 5	52 30	8.66 6.00	144 60	24.00 12.00	73 42	12.16	204 84	34.00 16.80
Upto 1.00	M F	3 2	30 15	10.00 7.50	90 30	30.00 15.00	40 20	13.33 10.00	105 40	35.00 20.00
Total	M F	15 14	177 112	11.80	519 224	34.60 16.00	220 152	14.66 10.85	630 304	42.00 21.71
					# w * #	7 m			(cc	ontinued)

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Table 40 : (continued)

Month -	Sex	No.of	2 2	April	1973		Tot	al May 197	2 to Apr	11 1973
Size of operated holding (acres)		workers	Work days	Averege per worker	Wages recei- ved (Rs.)	Average wages per worker (Rs.)		l Averege per	Wages recei- ved (Rs.)	Average wages per worker (Rs.)
More than 20.01	M F	·, •		93 ₩3 ₩3	, =	2	-	-	-	·
15.01 - 20.00	M F	•		-	-	- -		-	-	- -
10.01 - 15.00	M F	-	=	-	.* <del>-</del>	• ••• •••	-	-		
7.51 - 10.00	M F	1	10 15	10.00 15.00	30 30	30.00 30.00	63 53	63.00 53.00	189 102	189.00 102.00
5.01 - 7.50	M	3	35 38	17.50 12.66	105 <b>7</b> 6	52.50 25.33	282 372	141.00 124.00	717 574	358.50 191.33
2.51 - 5.00	M F	3	45 40	15.00 13.33	135 63	45.00 21.00	374 330	124.66 110,00	1017 538	339.00 179.33
1.01 - 2.50	M F	6 5	67 49	11.16 9.80	186 98	31.00 19.60	565 404	94.16 80.80	1507 640	251.66 128.00
Upto 1.00	M F	3 2	40 15	13.33 7.50	100 30	33.33 15.00	403 275	134.33 137.50	939 469	313.00 234.50
Total	M F	15 14	197 157	13.13 11.21	556 297	35.06 21.21	1687 1434	112.46 102.42	4369 2323	291.26 165.92

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Table 40 : (continued)

onth -				Mey	1972			Jun	e 1972			Jul	y 1972	
ize of persted olding acres)	Sex	No. of workers	work days	Average per worker	Wages recei- ved Rs.	Average wages per worker Rs.	Work deys	Average per worker	recei-	Average wages per worker Ra.	Work deys	Average per worker	Wages recei- ved	Average wages per worker Rs.
•51 and	M F	2 2	25 18	12.50 9.00	75 27	37.50 13.50	8	4.00 8.00	24 24	12.00 12.00	-		, ma	-
•01 <b>-</b>	M F	1 2	10 10	10.00	30 15	30.00 7.50		- '	<u></u>	-	-	-	<b>-</b> ,	
.51 - .00	M F	5	61 46	12.20 7.67	179 69	35.80 11.50	34 62	6.80 10.33	96 91	19.20 15.16	8 33	1.60 5.50	24 48	4.80 8.00
.01 - .50	M F	18 29	232 183	12.89 6.31	676 270	37.55 9.31	134 220	7.44 7.58	382 318	21.22 10.94	74 236	4.11 8.13	174 325	9.67 11.20
pto •00	M F	12	70 98	17.50 8.16	210 147	52.50 12.25	. 38 137	9.50 11.41	114 199	28.50 16.58	40 152	10.00 12.67	105 207	26.26 17.25
il .	M F	ī	<del>-</del>	-		-	10	10.00	13	13.00	15	15.00	19	19.00
otal	M F	30 52	398 355	13.26	1170 528	39.00 37.71	214 445	7.13 8.55	616 645	20.53 12.40	122 436	4.06 8:38	303 599	10.10 11.51

Table 40 : (continued)

Month -	Ser	No. of		August	1972			Septem	ber 197	2		Octob	r 1972		
Size of operated holding (acres)		workers	work days	Average per worker	Wages recei- ved (Ms.)	Average wages per worker (Rs.)	deys	Average per worker	recei- ved	Average wages per worker (Rs.)	work days	Average per worker	recei-	Average weges per worker (Rs.)	
7.51 and more	M F	2 2	. <b>-</b>	<u>-</u> -	- \	m-	12	6.00	15	7.50	18 16	9.00	54 20	27.00 10.00	
5.01 <b>-</b> 7.50	M F	2	-	en.	- -		-	-	-	, <del>-</del>	<u>-</u>	:.	<b>-</b> '	-	
2.51 <b>-</b> 5.00	M F	5	40 14	8.00 2.33	105	21.00 3.00	35 43	7.00 7.16	90 54	18.00 9.00	38 50	7.60 8.33	106 67	21.20 11.16	152
1.01 -	M F	18 29	98 188	5.44 6.48	229 246	12.72 8.48	176 335	9.78 11.55	440 424	24.44 14.62	199 304	11.05	562 401	31.22 13.82	
Upto 1.00	M F	12	45 153	11.25 12.75	100 208	25.00 17.33	50 170	12.50 14.16	110 222	27.50 18.50	53 140	-	•144 183	36.00 15.25	,
Nil	M F	Ţ	i5	15.00	19	19.00	15	15.00	19	19.00	20	20.00	25	25.00	
Total	M F	30 52	183 370	6.10 7.11	 434 491	14.46 9.44	261 575	8,70 11.05	640 734	21.33 14.11	308 530	10.26 10.19	866 696	28.86 13.38	•
												7 77.5.	 (continu		

Teble 40 : (continued)

Month -				Novem	ber 197	2	`-	Decembe	r 1972		<b>-</b>	Janua	ry 1973		
Size of operated holding (acres)	Sex	No. of workers	Work days	Average per worker	recei-	Average wages per worker (Rs.)	Work days	Average per worker	recei-	Average wages per worker (Rs.)	days	Averege per worker	racei-	per worker	
7.51 and	м <b>F</b>	2 2			-		ිද 18	4.00 9.00	16 44	8.00 22.00	18 20	9.00 10.00	46 50	23.00 25.00	
5.01 - 7.50	M· F	1 2	-	<b>-</b> .	-	· _	*	4.00	16	8.00	20	10.00	40	20.00	
2.51 - 5.00	- M	5 6	38 49	7.60 8.16	114 69	22.80 11.50	58 52	11.60 8.67	164 114	32.80 19.00	65 64	13.00 10.67	165 140	33.00 23.33	,
1.01 -	M F	18 29	141 286	7.80 9.86	415 377	23.05 13.00	192 344	10.66 11.86	596 614	33.11 21.17	209 362	11.61 12.48	647 648	35.94 22.34	
Upto 1,00	M F	12	60 13 <b>7</b>	15.00 11.41	165 193	41.25 16.08	65 144	16.25 12.00	195 276	48.75 23.00	67: 148	16.75 12.33	201 284	50.25 23.66	**
Nil	M F	ī	25	25.00	50 -	50.00	15	15.00	30	30.00-	10	10,00	20	20,00	
Total	 М F	30 52	<b>239</b> 497	7.96 9.55	694 689	23.13	323 581	10.76 11.17	971 ,1094	32.37 21.03	359 624		1059 1182	35.30 22.73	•
		an an an an -		• = •				-,	• <b></b> -		, <b>-</b> -	(	conting	ed)	,

Ionth -	Sex	No. of		Febri	lery 1973		Merch 1973						
Size of operated holding (acres)		workers	Work days	Average per worker	ages received (Rs.)	Average wages per worker (ks.)	Work days	Average per worker	wages received (ns.)	Average wages per worker (Rs.)			
7.51 and more	M F	2 2	20 22	10.00	50 56	25.00 28.00	35 30	17.50 15.00	105 60	52.50 30.00			
5.01 - 7.50	M F	2 2	10 30	10.00 15.00	30 160	30.00 30.00	12 36	12.00 18.00	36 72	36.00 36.00			
2.51 - 5.00	M F	5	55 62	11.00 10.33	153 138	30.60 22.67	90 80	18.00 13.33	270 160	54.00 26.67			
1.01 - 2.50	M F	18 29	21 <b>7</b> 348	12.05 12.00	672 657	37.33 22.65	240 326	13.33 11.24	735 622	40.83 21.44			
Upto 1.00	M F	12	80 167	20.00 13.91	240 334	60.00 27.83	65 180	16.25 15.00	195 360	48.75 .30.00			
N11 6 0 4	M F	, i	15	15.00	30	30.00	15	15.00	3 <b>0</b>	.30.00			
lotal	M F	30 52	382 644	12.73 12.38	1145 1273	38.16 24.48	442 667	14.40 12.82	1341 1304	44.70 25.07			

Table 40: (continued)

Month -	Sex	No. of	·	Apr	11 1973		Total May 1972 to April 1973						
size of operated holding (acres)	1	workers	Work days	Average per worker	Wages received (ks.)	Average wages per worker (Rs.)	Total work days	Average per worker	Wages received (Rs.)	Average Wagas par Worker (Rs.)			
7.51 and more	M F	2 2	40 30	20.00	120 60	60.00 30.00	172 182	86.00 91.00	490 356	245.00 178.00			
5.01 - 7.50	M F	1. 2	15 35	15.00° 17.50°	30 ~ 70 ~	30.00 35.00	47 139	47.00 69.50	126 273	126.00 136.50			
2.51 - 5.00	M F	5, ·· 6,	90 77	18.00 12.83	270 154	54.00 25.67	612 632	122.40	1736 1120	347.20 186.66			
1.01 - 2.50	M F	18 29	240 3 <b>2</b> 9	13.33 11.34	735 638	40.83 22.00	2152 3461	119.55 119.35	6263 5540	347.94 191.03			
Upto I.00	M F	12	80 198	20,00 16,50	240 396	60.00 33.00	713 1824	178.25 150.33	2019 3009	504.75 250.75			
Nil	M F	ī	10	10.00	20	20.00	165	165.00	275	275.00			
Total	M F	30 52	465 679	15.50 13.05	1395	46.50 25.73	3696 6403	123.20 123.13	10634 10573	354.46 203.72			

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Table 41	i Limj	ployment	in Non	n-agricul	tural	Occupati	ons .		: •			·		
	· _						Smell	Farmers		•			2.1	
Month -		No.of	May	1972	Jun	e 1972	Jul	y 1972	Augu	st 1972	Septe	mber 1972	Octo	per 1972
Size of operated holding (acres)	Sex	Workers	Work days	Average per worker	Work days	Average per worker	Work days	Average per worker	Work days	Average per worker	Work	Average per worker	Work days	Average per worker
More than 20.01	M	÷	= = =		•	_	-	=				_		
15.01 - 20.00	· M F	, <u>1</u>	10	10.00	103	10.00	11	11.00	11	11.00	10	10.00	11	11.00
10.01 - 15.00	M F	3	43	14.33	25	8.33	15	5.00	35	11.66	38	12.66	5 <u>5</u>	18.33
7.51 <b>-</b>	M F	1 -	31	31.00	30	30.00	26	26.00	20	20.00	25	25.00	15	15.00
5.01 - 7.50	M F	-		-	- 1		-		-	-		-	_	
2.51 - 5.00	M F	1	23	23.00	20	20.00	16	16.00	26	26.00	20	20.00	20	20.00
1.01 - 2.50	M F	1 .	25	25.00	12	12.00	-	-	15	15.00	15	15.00	15	15.00
Upto 1.00	M F	1	15	15.00	15	15.00	11	11.00	11 	11.00	15	15.00	15	15,00
Total	M F	28	147	18.37	112	14.00	79	9.87	118	14.75	123	15.37	131	16.37

Tuble 41 : (continued)

Month -			Novem	be <b>r 1972</b>	Dece	mber 1972	Jenu	ary 1973	Febr	uery 1973	Mar	ch 1973	Apr	11 1973		May 1972 April 1973
Size of operated holding (acres)				Average per worker	Work days	Average per worker	Work days	Average per worker	Work days	Average per worker	Work days	Average per worker	Work days	Average per worker	Total work days	
More than 20.01	M F	<b></b>	-	<b>=</b>	. <u>-</u>	-		्रा इ.स. १	·	-		-		· •.		
15.01 - 20.00 /	M F	1	15	15.00	15	15.00	15_	15.00	12	12.00	15	15.00	15	15.00	150	150.00
10.01 -	M F	3	45	15.00	45	15.00	45	15.00	50 <del>-</del>	16.66	45	15.00	45	15.00	486	162.00
7.51 - 10.00	M F	1_	20	20.00	10	10.00	-	-	-		<b>.</b>	-	-	-	177	177.00
5.01 <b>-</b> 7.50	M F	- -	-	-	-	<u>.</u>	-	-	-			<u> </u>	-	- ,	-	<u>-</u>
2.51 <b>-</b> 5.00	M F	1	15	15.00	20	20.00	20	20.00	25	25.00	25	25.00	25	25.00	255	255.00
1.01 - 2.50	M F	1	15	15.00	•15	15.00	25	25.00	22	22.00	240	24.00	20	20.00	203	203.00
Upto 1.00	M F	1	20	20.00	12	12.00	12	12.00	15	15.00	10	10.00	5	5.00	156	156.00
lotal.	M F	8	130	16.25	117	14.62	117	14.62	124	15.50	 119	14.87	110	13.75	1427	178.37
						, <b></b> -						* - + -		(conti	nued)	

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19016 4	± ; (	continue	u, 	•		• • .	Margi	insl Farm	ers	•	1		-	*
Month -	Sex	No. of	Ma	y 1972	Jun	e 1972	Jul	y 1972	Augu	st 1972	Septe	nber 1972	Octo	ber 1972
Size of operated holding (acres)	: :	Workers		Average per worker	Work days	Average per worker	Work days	Average per worker	days	Average per worker	Work days	Average per worker	Work days	Average per worker
37.51 and more	M F	- 2	31	15.50	15	7.50	15	7.50	20	10.00	20	10.00	15	7.50
5.01 - 7.50	M F	. <u>-</u> ,		- <del>-</del>		-	-	-	-	· -		-	-	-
2.51 - 5.00	M F	7	158	22.57	155	22.14	121	17.28	125	17.85	140	šo•00	168	24.00
1.01 - 2.50	M F	11 2	180 8	16.36 4.00	142	12.90 4.00	131	11.90	139	12.63	153	13.90 4.00	171	15.54 . 4.00
Upto 1.00	M F	4 2	71 15	17.75 7.50	55 15	13.75 7.50	55 20	13.75 10.00	65 15	16.25 7.50	45 15	11.25 7.50	52 15	13.00 7.50
Nil	M F	2 -	25 -	12.50	20	10.00		10.00	20	10.00	25	12.50		12.50
Total	M F	26	465 23	17.84 5.75	387 23	14.88	342 28	13.15 7.00	369 15	14.96 3.75	383 23	14.73 5.75	431 23	16.57 5.75

Table 41 : (continued)

Month -		V 5'	Novem	pe <b>r 1972</b>	Dece	mber '1972	Janua	ery 1973	Febru	usry 1973	Mar	ch 1973	Apr	11 1973		May 197 pril 197
Bize of operated holding (acres)	Sex	No. of Workers	Work deys	Averege per worker	Work days	worker	Work deys	Average per worker	Work days	Average per worker	Work days	Average per worker	Work days	Average per worker	Total work days	Average per worker
7.51 and	M F	2	25	12.50	35	17.50	46	23.00	43	21.50	25	12.50	25	12.50	315	157.50
5.01 <b>-</b> 7.50	M F	-	-	-	=	<b>-</b> -,	-	. <del>-</del>	=	-	=	-		-	-	-
2.51 <b>-</b> 5.00	M F	7	140	20.00	147	21.00	148	21.14	149	21.28	142	20.28	150	21.42	1743	249.00
1.01 - 2.50	M F	11 2	161	14.63 4.00	183	16.63 4.00	199 23	18.09 11.50	206 23	18.72 11.50	218 23	19.81 11.50	220 23	20.00 11.50	2103 148	191.18
Upto 1,00	M F	4 2	65 25	16.25 12.50	70 30	17.50 15.00	80 30	20.00 15.00	80 30	20.00 15.00	90 30	22.50 15.00	90 30	22.50	818 270	204.50 135.00
Nil .	M F	2	2 <u>5</u>	12.50	40	20.00	40: -	20.00	45	22.50	50	25.00	50	25.00	385	192.50
Totel	м . F	26 4	416 33	16.00 8.25	475 38	18.26 9.50	513 53	19.73 13.25	523 53	20.11	525 53	20.19	535 53	20.51 13.25	5364 418	206.30 104.50

Total Wo	rke	Tota ers ment	l Employ- (days)	Average Employ- ment (days)
		Small Farmers		•
Male Female	8	, , ,	1427	178.37
		Marginal Farmers	•••	•
Male Female	26 4		5364 418	206 <b>.</b> 30 104 <b>.</b> 50

Female labour employment in non-agricultural occupations was limited to pottery, grocery and tailoring. Except in case of the potter family employment of female labour in the other two occupations was as an occasional helper rather than as a normal feature.

### Total Employment for Sample Households

Total employment for the twelve month period, May 1972 to April 1973, in respect of small and marginal farmers was as given below:

	<u>Male</u>	Female
Small Farmers	7 - 1	
Net number of Workers Employment in (days):	111	99
(i) Agriculture (ii) Animal Husbandry (iii) Wage Lebour (iv) Non-agricultural Occupations	7004 2743 1687 1427	6032 2749 1434
	*	10015
Total (i) to (iv) Average per worker (days)	12861 115.86	10215 103.00
Marginal Farmers	.*	
Net number of Workers	142	152
Employment in (days):  (i) Agriculture  (ii) Animal Husbandry  (iii) Wage Labour  (iv) Non-agricultural Occupations	7497 3124 3696 5364	7503 7346 6403 418
Total (i) to (iv) Average per worker (days)	19681 138.68	21670 142.56

For the purpose of average employment per worker, the number of net workers was arrived at after deducting the salaried earners from the working force. The average employment per worker, both male and female, was very low in respect of small and marginal farmers. The average in respect of marginal farmers was only slightly better than the average for small farmers. Total employment also underlines the fact that female workers are participating in the economic activity almost equally as the male workers.

#### Investment in Land

One of the important measures proposed was broadening the base of production of small and marginal farmers but without increasing the extent of physical area in their command. Both SFDA and MFAL, therefore, had recognised the

need to help the farmers to undertake necessary investment in land with a view to improving their resource endowment and then through intensive cultivation etc. the resource productivity. As a result the Agency in its programme had proposed subsidising small and marginal farmers undertaking investment in New Wells, Repairs to Old Wells, Land Improvement and Levelling etc. Levelling etc.

As stated earlier 20 small farmer families and 35 marginal farmer families had lifted loans for investment in New Wells, Land Development etc. Table 42 gives itemised distribution of long term borrowings for investment both in respect of small and marginal farmers. All the farmers had not lifted both the instalments of the loan by end of June 1973, the distribution being as below.

	S	FDA		1		
Item	lst instal- ment	lst+2nd instal- ment			lst+2nd l-instal- ment	Total
1. New Wells 2. Repairs to Old Wells 3. Water Supply etc. 4. Oil Engine etc. 5. Land Improvement etc.	1 2 8	6 3 1 3	6 1 5 1	- - 10	3 2 8 -	3 2 8 - 22
Total	11	13 ,	24	10	25	35

As explained earlier the numbers of loans in case of small farmers are more than the families as one family borrowed funds in the name of four landholders and one family had borrowed for two items. The Agency had stated that both the programmes were essentially an experiment in supervised use of credit by rendering the necessary extension efforts and help the beneficiaries to use the credit effectively to raise themselves. However, both the extension effort and the supervision of the effective use of credit had been lax. It is not possible to understand why almost fifty per cent of small farmer loanees and nearly 33 per cent of marginal farmer loanees had not completed even the first stage of the works proposed that was financed by first instalment at the end of at least twelve months from the date of issue of loan. (The field-work was started in August 1972 and the sample included loanees upto end of July 1972.) No regularity of supervision of works and utilization of credit had been maintained by the bank or the Block Development Officer or his deputy concerned. At times the reports of these two different supervising agencies were at variance with each other as can be seen from the following.

Purpose of loan - Land development and levelling

Amount sanctioned - Rs. 3000/-

Amount lifted:
 lst instalment - Rs. 1500/- dated 8th February 1972.

2nd instalment - Rs. 1500/- dated 22nd June 1973.

Table 42 : Itemised Long Term Borrowing for Investment in New Wells etc.

Small Farmers

Item & Serial No.	Year and month of loan	Amount sanc- tioned	30th J	lifted une 1973		Repay- ment period	Due date for re-	Repaym Date	ent Plan Principal	lst instal- ment of	No.of instal-	cipsl	Overdi June	1e 30t 1973	h
	issue		lst instal- ment	2nd instal- ment	Total		payment of loan instal- ment		and/or Interest	ment of principal at the end	for re- payment of prin-	out- stand- ing 30th June 1973	-Prin- cipel		
(1)	(2)	дs. (3)	Rs. (4)	Rs. (5)	Ks. (6)	(Years)	(8)	- (9)	(10)	of - (Months) (11)	(1Ž)	Rs. (13)	Rs. (14)	Rs. (15)	
New We	lls		•				·								
1.	Jan. 1972	3400	1700	1700	3400	10 -	31-3	31-3-72 31-3-73	Int.only Prin.+Int.	15	10	3400	224	299	10%
*2.	Feb. 1972	9900	49 <b>5</b> 0	4950	9900	10	31-3	31-3-72	Int. only Prin.+Int.	; 1.4	10 ,	<b>`</b> 9248		-	
3.	Feb. 1972	5300	2650	2650	5300	10	31-3	31-3-72 31-3-73	Int.only Prin+Int.	14 .	10	4951	•	. 194	
4.	Feb. 1972	6000	3000	3000	6000	10	31-3	31-3-72 31-3-73	Int. only Prin+Int.	14	10	6000	395	523	
5.	Mer. 1972	6000	3000	3000	6000	10	31-3	31-3-72 31-3-73	Int. only Prin+Int.	13	10	6000	395	522	
6.	Mar. 1972	6000	3000	3000	6000	10	31-3	31-3-72 31-3-73	Int. only Prin+Int.	13	10	6000	197	479	•

No.2 under wells and No.5 under Water Supply are two loans in the name of same person in one family.

Table 42 : (continued)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	
Wate	r Supply						•			•				- -	
1.	Feb. 1972	7000	3500	3500	7000	10	31-3	31-3-72 31-3-73 31-3-74	Int. only Int. only Prin.+Int.	26	9	7000	-	<b>,</b>	
2.	June 1972	10000	5000	- '	5000	10	31-3	31-3-73 31-3-74	Int. only Prin.+Int.	22	9	5000	•	343	
3•	Mar. 1972	<b>4</b> 50 <b>0</b>	2250	2250	4500	10	31-3	31-3-72 31-3-73 31-3-74	Int. only Int. only Prin.+Int.	. 25	9	4500	-	-	•
4.	Feb. 1972	· 4000	-	-	4000	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	14	10	4000	263	360	163
5•	Jan. 1972	5700	2850	-	2850	10	31-3	31-3-72 31-3-73 31-3-74	Int. only Int. only Prin.+Int.	27	9	2850	•	257	
011	Engine					•		•							
1.	Dec. 1971	4000	-	<u>.</u>	4000	10,	31-3	31-3-72	Prin.+Int.	4	10	3450	-		
Land	Development	<u>t</u>											•		
1.	Apr. 1971	600	300	-	300	10,	31-3	31-3-72	Prin.+Int.	12	10	<b>880</b>	. 22	25-	
2,	Dec. 1971	1200	600	_	600	10	31-3	31-3-72	Prin.+Int.	4	10	518	·		

Table 42 : (continued)

(1)	(2)	-	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	•
3.	Dec.	1971	750	375	375	750	10	31-3	31-3-72	Prin.+Int.	4	10	698	· .	-	
4.	Dec.	1971	750	375	-	375	10	31-3	31-3-72	Prin.+Int.	4	10	350	27	32	
*5.	Dec.	1971	1500	750	-	750	10	31-3	31-3-72	Prin.+Int.	4	10	701	54	63	
*6.	Dec.	1971	1500	750	-,	750	10	31-3	31-3-72	Prin.+Int.	4	10	701	54	63	
7.	Dec.	1971	500	250	-	250	10	31-3	31-3-72	Prin.+Int.	4	10	234	18	21	
8.	Jun.	1971	2000	1000	1000	2000	10	31-3	31-3-72	Prin.+Int.	10	10	1934	138	171	
*9.	Jan.	1972	2000	1000	. 🗢	1000	10	31-3		Int. only Prin.+Int.	15	10	1000	66	90	. 164
*10.	Jan.	1972	3000	1500	-	1500	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	15	10	1401	•	-	+
11.	Mar.	1972	· 1500	750	<b>750</b>	1500	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	13	10	1401		<b>-</b> ,	
. nep	irs to	Old '	ell			,	•				•				•	•
1.	iar.	1972	7300	3650	•	3650	10	31.3	31-3-72 31-3-73 31-3-74	Int. only Int. only Prin.+Int.	25	9	3650		 Uh	

<sup>\*</sup> Nos.5, 6, 9 and 10 under Land Development are members of the same family staying together and cultivating jointly. Loans have been shown separately though all these represent one cultivating family. SFDA enumerates these as four small farmers.

(continued)

Toble 42 : (continued)

Mar	ginel	Farmers

	Year and	Amount	Amou	nt lifted	by	Repay-			ent Plan	lst	No. of			ue 30th	
Serial No.	month of loan issue	senc~ tioned	lst instel- ment	June 197 2nd instal- ment	Total	ment period	date for re- payment of loan instal- ment	Date	Principal and/or Interest	ment of principal at the end	ments for re- payment of prin-	out- stand-	Prin- cipal	Inte-	
(1)	(2)	(3)	Rs. (4)	Rs. (5)	Rs. (6)	Rs. (7)	(Years) (8)	(9)	(10)	of - (Months)	(12)	Rs. (13)	Rs. (14)	Rs. (15)	
New We	ells						,	·	,	a e a A	<b>)</b> -				
1.	Apr. 1972	6800	3400	3400	6800	10	31-3		Int. only Prin+Int.	24	9.	6800	• .	304	165
2.	Apr. 1972	8000	4000	4000	8000	io	31-3		Int. only Prin+Int.	24	9	8000	-	619	
<b>3.</b> ,	Aug. 1972	7000	3500	3500	7000	10	31-3	31-3-73 31-3-74	Int. only Prin+Int.	20	9	7000	. ·	-	-
Repair	rs to Old we	11					·								
i.	Jan. 1972	2000	1000	1000	2000	10	31-3	31-3-72 31-3-73	Int. only Prin+Int.	15	ΪO	2000	132	163	
2.	Mar. 1972	3000	1500	1500	3000	10	31-3		Int. only Prin+Int.	13	10	3000	197	250	

Table 42 : (continued)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	
wate	r Supply						, -			-,					
.1.	Mar. 1971	7000	3500	3500	7000	10	31-3	31-3-71 31-3-72 31-3-73	Int. only Int. only Prin.+Int.	25	9	6682	<b>-</b>	630	
. 2.	Mør. 1971	5000	2500	2500	5000	10	31-3	31-3-72		. 25	9	4773	-	<b>-</b>	
3	Jen. 1972	5000	2500	2500	5000	10	31-3	31-3-72 31-3-73 31-3-74	Int. only Int. only Prin.+Int.	27	9	5000	-	429	
4.	Feb. 1972	10000	-	• ••	10000	10	31-3	31-3-72 31-3-73	Int. only Prin. +Int.	14	9	10000	658	947 ह	166
5•	Mer. 1972	7000	3500	3500	7000	10	31 <b>-</b> 3	31-3-72 31-3-73 31-3-74	Int. only Int. only Prin.+Int.	25	9	7000	<b>-</b> 1		
6.	June 1972	6000	3000	3000	6000	10	31-3	31-3-73 31-3-74	Int. only Prin.+Int.	22	9	6000	-	-	
7.	June 1972	6000	3000	3000	6000	10	31-3	31-3-73 31-3-74	Int. only Prin.+Int.	22	9	6000	-	210	
8.	June 1972	5900	-	. <b>-</b>	5900 	10	31-3	31-3-73	Prin.+Int.	10	10	5900	388	436	
		, <del>-</del>	,-	- <b></b>	747 <b>7</b> 7						 -	(con	tinued)		

Tabla	1.2	. (	contin	med	١

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	
Land	Development				`			•		•					
1	Mar. 1971	1700	850	850	1700	10	31-3	31-3-71 31-3-72	Int. only Prin.+Int.	. 13	10	1700	2,41	282	
2.	Apr. 1971	250	125	125	250	10	31-3	31-3-72	Prin.+Int.	. 12	10	234	18	21	
3.	'Apr. 1971	200	100	-	100	10	31-3	31-3-72	Prin.+Int.	, 12	10	93	7	8	
4•	Apr. 1971	350	175	175	350.	10	31-3	31-3-72	Prin.+Int.	12	10	327	25	29	
5.	Apr. 1971	400	200	500,	400	10	31-3	31-3-72	Prin.+Int.	· 12	10	344	-	• '	
6.	Apr. 1971	200	100	-	100	10	31-3	31-3-72	Prin.+Int.	12	10	93	7	8	167
7.	June 1971	1000	500	500	1000	io	31-3	31-3-72	Prin. #Int.	10	10	1000	69	77	
8.	Dec. 1971	700	350	350	700	10	31-3	31-3-72	Prin.+Int.	4 .	10	677	. 48	56	
9.	Jan. 1972	5000	1000	-	1000	10	31 <b>-3</b>	31-3-72 31-3-73	Int. only Prin. +Int.	15	10	1000	66	90	
10.	Jan. 1972	800	400	· 🕳	400	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	15	10 °	400	26	36	
11.	Jan. 1972	750	375	· 105	375	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	15	10	350	<b>-</b>		
12.)	Feb. 1972	1200	600	- ,	600	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	14	10	600	40	54	
-										-,	÷ • •		(conti	nued)	

1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
3.	Feb. 1972	3000%	1500	1500	3000	10.	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	14	10	3000	99	135
4.	Feb. 1972	2500	1250	•	1250	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	14	10	1250	82	113
L5.	Feb. 1972	1500	750	750	1500	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	. 14	10	1500 C	99	125
6.	Feb. 1972	900	450	450	900	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	14	10	870	-	-
L7•	Feb. 1972	1500	750	<del>-</del> .	750	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	14	10	701	. • •	• .
18.	Mar. 1972	1500	750	-	750	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	13	10	750	50	67
L9 <b>.</b>	Mar. 1972	1400	700	-	700	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	13	10	700	46	63
20.	Mar: 1972	700	350	350	700	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	13	10	677		-
21.	Mar. 1972	1000	500	500	1000	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	. 13	10	1000	<b>33</b>	55
22.	Mer. 1972	1000	500	500	1000	10	31-3	31-3-72 31-3-73	Int. only Prin.+Int.	13	10	967	. • <b>-</b>	

Supervisors Report:

lst visit 5th July 1972 - Work completed as per first instalment of loan. Estimated expenditure Rs. 1500/-.

Soil Conservation Officer, Patan.

2nd visit 10th August 1972 - Work proposed under 1st instalment of Rs. 1500/- not completed.
Notice issued to complete the work and notify the bank in about a month.

Bank Supervisor.

3rd visit - Works completed. Estimated 18th March 1973 cost Rs. 1500/-.

B.D.O., Patan.

One fails to understand which of the report happens to be describing the progress of work correctly and possible within the first instalment of Rs. 1500/-. Even if one is to agree that the proposed work estimated to cost Rs. 1500/- was completed by 18th March 1973, it is difficult to understand why it took another three months for the bank to release the second instalment of Rs. 1500/-. In the meanwhile the cultivator had run into overdues on account of repayment of first instalment of principal and interest due on 31st March 1973. The cultivator received the second instalment of the loan in June 1973 after effecting the payment of overdues. There are few more cases of this nature and it leads to the only conclusion that there had been quite an extent of negligence in supervising the use of credit in proper time.

Another matter that needs to be considered is the period required to complete the proposed work and time allowed upto first instalment of repayment of principal. There are wide varietions in the period allowed for repayment of principal, the minimum such period in respect of land development being four months and the maximum being fifteen months. The bank does not prescribe any period for completion of the work proposed but generally agrees that land levelling and development etc. should take around two to three months to complete. In spite of this assessment the bank never made any inquiries as to why such lend development works are getting delayed. The repayment has to come out of the incremental income resulting or expetted from such works and the minimum that will be deemed necessary is to allow the cultivator at least one clear season before the repayment falls due. This one clear season could not be allowed in a few cases (there is only one such case in the sample) possibly on account of fixing the due date on 31st March of every year. Had there been two different due dates, such as 31st March and 31st December practised previously for verious long term loans, the cultivator would not be faced with the problem of repayment before he has a chance to increase his income from the piece of land on which levelling etc. had been carried out. This problem arises particularly in respect of land levelling and development works. However, the maximum period during which the works proposed have to be completed seems quite necessary even in respect of New Wells, Repairs to Old Wells, etc.

As the Land Development Bank reports no subsidies have so fer been (i.e. end of November 1973) adjusted to loanees account for went of any clear direction. The Agency wants the subsidies to be adjusted to the loan account and the benk would prefer to adjust the subsidy to wards repayment with interest rather than the loan amount. The bank, further, states that adjustment of subsidy to repayment is the normal procedure and this be continued as it will be more convenient for maintaining the accounts properly. The Ministry of Agriculture, Department of Agricultural Credit, by its letter No. 22/10/71 Agri. Credit, dated 14th March 1973 had suggested that the banks should sanction the loan amount by taking into consideration the amount of subsidy due on the cost of the works. As the bank states this is just not possible as the subsidy is to be paid only after the completion of the proposed work and till then the bank will have to finance the proposed investment to the full estimated cost arrived at by the bank. Even if the subsidy amount is paid in advence to the benk, it is not desirable to adjust the subsidy to loanees account because the accounts may have to be readjusted and rewritten in case the beneficiary has not utilized the funds properly for the given purpose. One thing should be clear enough that the maximum benefit of subsidy has to go to the cultivator and not to the bank as happens under the present procedure of adjusting subsidy towards repayment. For this purpose the subsidy needs to be adjusted to loan account and not to repayment. Such a procedure may be considered along with the repayment period after keeping in view that the cultivator gets at least one clear season, after completion of works, before the commencement of repayment of principal and interest due thereon in the form of annual equated instalments. There is no need to change the total period of the loan from the existing 10 years. Sinc: the commencement of repayment of principal and interest due the near of the benefit of subsidy to ad ment of subsidy the balance of principal with interest due be collected in eight equated annual instalments. The bank is no loser if such a repayment procedure is adopted and the cultivator would get the maximum benefit only if he completes and gets the necessary completion certificate for such work by the end of the stipulated period. Some minor adjustments for collection of interest will be necessary if the stipulated maximum period falls beyond the due date prescribed for collection of interest and this will not be very difficult to manage. The benefit to the cultivator, on the estimated cost and loan amount of Rs. 1000 only, can be seen from the following.

## Land Development

1)	Loan Amount Rs. 1000	
2)	Interest @ 9%, Period of loan 10 years.	
3)	Repsyment: 1st year only interest on Rs.1000	Rs. 90.00
4)	Subsidy @ 25% on cost of ) Loan Rs. 1000 Rs.1000 to be adjusted on ) Less: completion at the end of ) Subsidy Rs. 250 maximum period of 12 months) Balance of Principal due Rs. 750	
5)	Balance of Rs.750 to be ) repaid in 9 equated annual ) instalments each of Rs.125.10) Total payment	Rs. 1125.90
6)	Total payment by cultivator (3 + 5)	Rs. 1215.90
7)	Total payment by cultivator in 10 annual equated instal- ments of Rs.155.82 each where subsidy is adjusted with repayment, subsidy being @ 25% of estimated cost of Rs. 1000  Total Repayment Rs.1558.20  Repayment Rs.1558.20  Less: Subsidy Rs. 250.00  Rs.1308.20	Rs. 1308.20
8)	Net benefit to Cultivator (7 - 6)	Rs. 92.30
	New Wells, Repairs to Old Wells, etc.	
l)	Loan amount Rs. 1000	profits
2)	Interest @ 9%, Loan period 10 years.	1116 (1)
3)	Repayment: Interest for 1st and 2nd year	Rs. 180.00
4)	Subsidy @ 25% of estimated ) Loan Rs. 1000 cost to be adjusted to loan ) amount at the end of maximum ) Less: Subsidy Rs. 250 Rs. 750	
5)	Balance of Rs.750 to be paid ) in 8 equated annual instal- ) ments each of Rs.135.52. ) Total payment	Rs. 1084.16
6)	Total payment by Cultivator (3 + 5)	Rs. 1264.16
7)	Total payment by cultivator ) in 10 equated annual instal-) ments of Rs.155.82 each when subsidy is adjusted to ) repayment, subsidy being 0 25% of estimated cost of Rs. 1000. Total payment 1558.20 ments of Subsidy 250.00 1308.20	Rs. 1308.20
8)	Net benefit to Cultivator (7 - 6)	Rs. 44.04

The net benefit of ks. 92.30 in respect of Land Development might not be very substantial in itself, but this has to be considered along with the reduction in the annual instalment from Rs. 155.82 to Rs. 125.10 which no doubt lessens the burden

of repsyment to a significant extent. The bank, as said earlier, is no loser as it collects all the principal and interest due to it. What the bank does not collect is what is no more due to it by way of interest. When the subsidy gets adjusted to repayment the bank gets interest on Rs. 250 of subsidy which is no more there since the subsidy is adjusted to lose amount. The same is true in respect of New Wells, etc. The cost of a New Well will be in some multiple of Rs. 1000 and to that extent the benefit will be larger along with the reduction in annual equated instalment.

The procedure gives each cultivator at least one clear season before the commencement of repayment of principal since repayment in equated annual instalment starts at the end of second year or third year depending upon the purpose for which loan has been disbursed.

#### Investment in Dairy

Long term investment in New Wells, Repairs to old wells etc. takes some gestation period before it can bestow benefits on the farmer. With the limited land resources it may not be possible to improve the employment and income potential of these farmers sufficiently to make them potentially viable in course of time. Therefore, it was necessary to diversify the activities of the rural population by developing supplementary agricultural enterprises such as poultry and animal husbandry. As pointed out in Chapter III poultry did not receive any response in any of the three talukas of Satara district. Cultivators responded quite energetically to supply of milch animals in the whole project area. Accordingly, the project proposed a subsidy of 25 per cent and 33 1/3 per cent on purchase cost of the milch animals for small and marginal farmers respectively. The Agency laid down following conditions for payment of subsidy and purchase of milch animal.

- (i) The milch animal should be purchased outside the district and should be either 'Pandharpuri', Graded 'Surti' or Graded 'Mehsana'.
- (ii) The purchase of the animal will be supervised by the purchase committee consisting of the farmer, representative of the financing agency, Bistrict Animal Husbandry Officer or his representative and the Chairman of the dairy society.
- (iii) Cash to be paid to the concerned society and not to the beneficiary farmer. Society makes the cash payment to the seller on behalf of the purchaser.
- (iv) Repayment in 48 fortnightly instalments through milk sales to Government Milk Scheme or Dairy Co-operative Federation. The total loan to be recovered in three years.

As per conditions laid down by the Agency, 47 and 80 milch animals were received by 47 and 78 small and marginal farmers from the sample of beneficiaries. As explained earlier two families of marginal farmers received two animals each having fulfilled the conditions laid down by the agency for supply of second milch animal. All these animals were supplied between November 1970 and November 1972, the detailed distribution having been given earlier. Of these animals only 14 and 5 animals supplied to small and marginal farmers respectively had been with the beneficiaries for a period of one year or more by the time the field-work was undertaken. It means that only 19 animals had contributed towards income from dairying in the year 1971-72, the contribution of such income for that period in respect of others being much less.

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Table 43: Utilization and Repayment of Medium Term Loan for Milch Animals

# Small Farmers

Serial No.	Size of the farm acres	Source of loan finance 1/	Year and month of loan issue	Duration of loan	Amount issued	Amount spent on purchase of milch enimel Rs.	Difference Col.(6-7)  Rs. (8)	Milch enimal brought from loan finance	Milch animals owned by the farmer inclusive of loen animal (10)
1 2 3 4 5 6 7 8 9 0 11 12 13 14 15 16 7 18 19	9-00 8-00 2-00 1-09 7-15 7-00 6-00 5-15 3-14 3-12 3-00 1-20 3-00 11-00 7-07	N.B. B.	Nov. 1970 Nov. 1970 Nov. 1970 Nov. 1970 Jan. 1971 Nov. 1971 Nov. 1971 Nov. 1971 Nov. 1971	3 years	1000 1000 1000 1000 1000 1000 1000 100	815 790 735 715 950 866 9841 975 830 866 719 836 977 1000	185 210 265 285 50 134 20 159 255 175 170 134 281 170 184 21 23		222222222222222222222222222222222222222

1/ N.B. = Nationalised Bank; C.S. = Co-operative Society.

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(1) (2)	(3) (4)	(5) (6)	(7)	(8)	(9) (10
20	N.B. Nov. 1971 N.B. Dec. 1971 C.S. Feb. 1972	3 years 1000	843 787 787 817 9117 845 9117 845 9744 9750 944 9750 944 9750 949 9649 9649	157 213 213 183 88 83 153 115 27 56 65 73 35 219 59 25 50 75 56 301 361 166 101 245 91	1 1 2 2 2 2 2 2 2 1 1 5 2 2 2 1 2 3 2 1 1 2 1 1 1 1 1 1 1 1 1 1

Table 43 : (continued)

Seriel					Rep	syment o	Balance				
No.	Heifers	Value	Bulls	Value	Cash	Milk	Subsidiary	Interest	Total	outstanding on 1st	
	(Nos.)	(Ks.)	(Nos.)	(hs.)	(Rs.)	(ks.)	(ns.)	(Rs.)	Rs. (Cols.	May 1972 (ks.)	
(1)	(11)	(12)	(13)	(14)	(35)	(16)	(17)	(18)	15+16+17) (19)	(20)	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 18 19	21	500 		40	185 210 265 285 285 134 20 159 25 175 170 134 281 170 184 21	735 535 485 305 610 175 377 4305 3855 285 285 1703 227 1302	204	54 60 69 75 88 97 89 79 87 78 71 846 47 49 50	920 743 750 590 660 309 390 536 480 555 379 566 349 591 248 153 142	134 318 310 479 415 779 700 538 635 598 522 704 505 736 455 799 896 908 913	175

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Table 43 : (con	tinued)						
(1) (11)	(12)	(13) (14)	(15) (16)	(17)	(18)	(19)	(20)
20 21 22 23 24 25 26 27 28 30 31 33 33 34 33 35 36 37 38 39 40 41 42 43 44 45 46 47	30 50 450 60 50 50 40 60	1 30	157 173 213 159 213 122 183 120 88 152 83 116 153 111 115 53 161 183 127 128 169 32 9 143 9 143 9 143 166 151 175 187 188 169 32 9 143 169 32 9 143 169 32 175 188 169 32 189 189 189 189 189 189 189 189 189 189	2366 2339 2322 241	352 332 334 338 332 470 1922 222 154 17	330 372 3373 3373 349 268 134 425 368 1345 368 369 1520 368 367 1915 368 377 1915 1917 1917 1917 1917 1917 1917 19	705 660 696 731 798 840 768 879 916 7453 799 848 925 937 948 925 948 948 948 948 948 948 948 948 948 948

Table 43 : (continued)

Serial	Milk yield from all milch	Of Col.21 milk yield from loan	May 1972-	Of Col.23 sales to co-opera-	Value of milk seles to	Amount adjusted	Amount received	Repays	ment d	uring l	st May 9 <b>73</b>		
	animals during 1st May 1972- 30th April 1973	animal	30th April 1973	tive society	co-ope- rative society in Col.24	against loan repayment	in cesh	Cash	Milk sales	Sub- sidy	Inte- rest	Total (Cols. 28+29+30	))
(1)	(Litres) (21)	(Litres) (22)	(Litres) (23)	(Litres) (24)	(Rs.) (25)	(hs.) (26)	(Rs.) (27)	(Rs.) (28)	(Rs.)	(as.)	(Rs.)	(Rs.) (32)	
123456789101123145671819	315 620 280 885 430 840 405 310 275 450 255 185 255 180 1300 315 520 750	315 540 - 405 70 615 - 75 450 - 255 180 375 315 270 375	365 160 510 123 540 150 - 140 338 - 135 158 105 635 173 285 393	310 	292 - 457 28 456 - 4 244 - 127 109 551 155 46 238	75 - 1 28 70 - 50 - 20 95 464 156 75 243	175 440 325 	100	75 20 4 1 65 70 5 12 50 117 464 156 743	204 198 184 1798 175 215 208 217 208 2180 2450 250 250 250 250	141919282589382225555 1819282589382225555	304 273 204 183 203 203 203 203 203 203 203 203 203 20	177

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•	(23)	(23)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
1055338338450545	360 225	210 465 465 233 528 143 240 705 240 345	210 465 465 233 508 143 225 240 240 7024 345	164 262 305 305 281 345 355 325 325 325 325 325 325 325 325 32	178 326 367 378 365 345 453 343 309 161 375 290 106 357 482 183 2806 179 230 246 302 521 401 254	155 284 355 325 326 462 301 355 171 445 327 383 2179 246 302 246 301 246 301 246 301 246 301 246 301 246 301 246 301 246 301 246 301 246 301 246 301 246 301 246 301 246 301 246 301 301 246 301 301 301 301 301 301 301 301 301 301		276	15845 15845	211 197 262 204 304 230 212 221 195 2447 237 2447 209 2189 225 246 209 2162 2162	20 176 18 12 12 19 22 19 22 25 25 23 40 31 42 45 45 49	366 4817 529 6366 492 283 3571 460 3452 289 53130 4520 4520 4520 4520 4520 4520 4520 452

No.	out- standing on 1st	Unexpired repsyment period upto maturity of losn	milk sales to co-ope-	payment received out of sales in	society	emount of repayment per month through	repayment per month to clear the balance during	outstand- ing as per cent	milch enimels 1971-72			
(1)	(Rs.)	(months) (34)	(hs.) (35)	(Rs.) (36)	(months) (37)	(Rs.) (38)	(Rs.) (39)	(Rs.) (40)	(Rs.) (41)	(Rs.) (42)	(43)	:
1	Credit*	Loan	1035	300	12	5 <b>7</b>	Repaid	-	846	-40	_	179
2	86	: repaid :6	1228	576	17	30	14	17	853		April 1973 mil	K Sale -
3 4 5	145 357 225	· 6 6 8	938 658 1913	433 349 128 <b>2</b>	13 14 21	33 17 25	24 60 28	34 151 42	863 574 979	-406 -10 270	worth ks.42 no Animal died Au April 1973 mil	g.1972. k sale
6° 7	579 463	8 8	466 1513	226 1012	17 19	5 15	73 58	665 165	954 844	35 340	worth Rs.20 no - April 1973 mil worth Rs.60 no	k sales
8 9 10 11 12 13 14	385 665 448 323 571 371 591	8888888	506 933 637 1156 329 543 346	124 458 320 579 84 245 147	11 13 17 19 12 14	27 24 13 16 13 15	48 83 56 40 71 46 74	127 214 197 105 352 173 <b>628</b>	416 1030 834 810 289 643 179	225 -302 -97 152 -255 -7	-	o oujusteu.

\* Credit belance of hs.152.

Tabl	Le 43	:	(continued	1

<u>(1)</u>	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(	43)	•
116789012234567890 2222222222223	360 115 5608 445 3596 920 183 366 1620 268 508	1688881881881881999	321 817 330 217 278 400 549 611 589 535 70 541 331	106 1344 161 153 186 50 34	14 18 16 8 14 13 14 13 14 13 14 11	16 36 13 18 27 190 29 28 33 40 21 38 23	2349 2345 201 1009 3147	143 17 244 428 204 131 49 20 56 43 114 31 170 53 200	240 1061 225 561 754 480 230 733 638 445 346 411 190 668 108 744	-403 4505 -365 2450 -248 -365 -286 -193 -193	Rs. 50	animal died July 1972. belance was peid to farmer. shares against loan finance. shares against loan finance;	180
31	320	19	487	-	13	34	17	71	265	-51	∵R. <b>.</b> 50	paid cash to farmer. shares against loan finance; paid cash.	
32 33 34 35	339 477 155	19 19 21	473 180 572 635	21 41	13 11 15 9	32 14 67	18 25 7	82 300 - 26	596 390 <b>376</b> 295	70 -417 292 308	Rs. 35 Rs. 50 Rs. 50 Rs. 25	peid cash to farmer. shares against loan finance.	
36 37. 38	593 478 558	21 21 21	232 326 259	7	11 12 14	10 22 14	28 23 27	559 180 289	49 1146 114	-147 572 459	Rs. 50 Rs. 50 Rs. 50	shares against loan finance.	
39	320	21	254	-	7	37	15	126	103	-218		shares against loan finance.	
	= = =					<u> </u>						(continued)	

Tab	Le 43 :	(contin	ued)			: •					
(1)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)
40 41 42	253 354 308	21 21 21	276 321 416	• =	9 9 8	31 36 52	12 17 14	91 110 74	95 83 182	+52 9 -11	Rs. 50 sheres against loan finance. Rs. 50 " " " " " ; Animal sold November 1972.
43	-	-	<b>-</b> .		-	-	-		233	768	
44 45 46 47	463 203 227 437	21 21 21 30	289 521 310 149	20	11 10 10 5	24 52 31 25	22 10 11 15	172 38 73 28	358 180 140 450	325 278 -60 270	Rs. 50 shares against loen finance. Rs. 50 " " " " " " .

Table 43 : (continued)

## Merginal Farmers

res) ) (3) 00 N.B.	(4) Nov. 1970	(5)	(Rs.)	enimal (ks.)	(Rs.)	loan finance	the former inclusive
00 N.B.		(5)	161			TTHULLCA	of losm
	Nov. 1920		(0)	(7)	(8)	(9)	enimel (10)
	10 A . T3/0	3 years	1000	765	235	ı.	1
30 N.B.	Jan. 1971	3 years	1000	700	300	1	2
08 N.B.	Jan. 1971	3 years	1000	816	184	1	3
28 N.B.	Jan. 1971	3 years	1000	855	145	1 .	1
07 N.B.	Jan. 1971	3 years	1000			1	.,
00 0.3.	Sept.1971	3 years	1000	,		1	1 ·
00 c.s.	Sept.1971	3 years	1000		•	,	2
00 c.s.	Sept.1971	3 years	1000		100	 1	1 .
06 c.s.	Sept.1971		1000	•		1	2
00 C.S.	Sept.1971	3 years	1000	765	235	1	2 -
	28 N.B. 07 N.B. 00 C.S. 00 C.S. 06 C.S. 00 C.S.	28 N.B. Jan. 1971 07 N.B. Jan. 1971 00 C.S. Sept.1971 00 C.S. Sept.1971 00 C.S. Sept.1971 06 C.S. Sept.1971 00 C.S. Sept.1971	28 N.B. Jan. 1971 3 years 07 N.B. Jan. 1971 3 years 00 C.S. Sept.1971 3 years 00 C.S. Sept.1971 3 years 00 C.S. Sept.1971 3 years 06 C.S. Sept.1971 3 years 06 C.S. Sept.1971 3 years 06 C.S. Sept.1971 3 years	28 N.B. Jan. 1971 3 years 1000 07 N.B. Jan. 1971 3 years 1000 00 C.3. Sept.1971 3 years 1000 00 C.S. Sept.1971 3 years 1000 00 C.S. Sept.1971 3 years 1000 06 C.S. Sept.1971 3 years 1000 06 C.S. Sept.1971 3 years 1000 07 C.S. Sept.1971 3 years 1000 08 C.S. Sept.1971 3 years 1000	28 N.B. Jen. 1971 3 years 1000 855 07 N.B. Jan. 1971 3 years 1000 816 00 C.S. Sept.1971 3 years 1000 665 00 C.S. Sept.1971 3 years 1000 790 00 C.S. Sept.1971 3 years 1000 790 06 C.S. Sept.1971 3 years 1000 740	28 N.B. Jan. 1971 3 years 1000 855 145 07 N.B. Jan. 1971 3 years 1000 816 184 00 C.3. Sept.1971 3 years 1000 665 335 00 C.S. Sept.1971 3 years 1000 790 210 00 C.S. Sept.1971 3 years 1000 790 210 06 C.S. Sept.1971 3 years 1000 740 260 00 C.S. Sept.1971 3 years 1000 765 235	28 N.B. Jen. 1971 3 years 1000 855 145 1  07 N.B. Jen. 1971 3 years 1000 816 184 1  00 G.3. Sept.1971 3 years 1000 665 335 1  00 C.S. Sept.1971 3 years 1000 790 210 1  00 C.S. Sept.1971 3 years 1000 790 210 1  06 C.S. Sept.1971 3 years 1000 740 260 1  00 C.S. Sept.1971 3 years 1000 765 235 1

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
11	1-07	C.3.	Sept.1971	3 years	1000	780	<b>330</b>	ı	1
12	10-00	C.3.	Sept.1971	3 years	1000	737	263	1	2
13	4-00	e.9.	Sept.1971	3 years	1000	797	203	1	1
14	2-06	C.S.	Sept.1971	3 years	1000	797	203	1	1
15	1-20	C.S.	Sept.1971	3 years	1000	712	288	1	2
16	1-18	C.S.	Sept.1971	3 years	1000	787	213	1 .	1
17	1-00	0,3,	Sept.1971	3 years	1000	762	238	· 1	1
18	0-34	0.5.	Sept.1971	3 years	1000	887	113	1	2
19	0-30	0 <b>,</b> 3, '	Sept.1971	3 years	1000	637.	363	1	1
20		C.S.	Sept.1971	3 years	1000	762	238	1	1

Tabla 43 : (continued)

(1)	(2)	(3)	<del></del>	(5) 	(6)	(7)	(8)	(9)	(10
21	<del></del> .	c.s.	Sept.1971	3 years	1000	687	313	- 1	1
22	7-00	N.B.	Nov. 1971	3 years	1000	1000	-	1	1
23	5-00	N.B.	Nov. 1971	3 years	1000	854	146	1	. 2
24	3-20	N.B.	Nov. 1971	3 years	1000	743	257	1	. 1
25	3-00	N.B.	Nov. 1971	3 years	1000	1000		1	2
26	1-20	N.B.	Nov. 1971	3 years	1000	928	72	1	3
27	1-00	N.B.	Nov. 1971	3 years	1000	879	121	1	3
28	0-30	N.B.	Nov. 1971	3' years	1000	804	196	1	2
29	5-11	N.B.	Nov. 1971	3 years	1000	812	188	1	. 3
30	4-10	Ń.В.	Nov. 1971	3 years	1000	862	138	1	.3
		. • <del>-</del> ∦** *	•				<b></b>	. (	contin
					-	1 1	•		

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(4) (3) (2) (5) 3 years 31 1-11 N.B. Nov. 1971 1000 887 113 1 2 32 0-23 Ñ.B. Nov. 1971 3 years 937 1000 63 2 3 years 33 0-20 Nov. 1971 и.з. 1000 842 158 34 4-20 м.В. Dec. 1971 3 years 1000 965 . 35 3 years 35 3-20 N.B. Dec. 1971 1000 943 57 36 5-00 Dec. 1971 0.5. 3 years 1000 919 81 1 37 2-10 C.S. Dec. 1971 1000 3 years 894 106 1 38 2-00 0.5. Dec. 1971 3 years 1000 181 819 1 : 39 1-18 C.S. Dec. 1971 3 years 1000 131 1 40 Dec. 1971 3 years 1000

Table 43 : (continued)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	1-00	C.S.	Dec. 1971	3 years	1000	849	151	1	1
42	2-16	C.S.	Dec. 1971 ) Dec. 1972 )	3 years 3 years	1000; 1000	855 ) 746 )	145 254	1 }	1
43	2-00	C.S.	Dec. 1971	3 years	1000	1000		. 1	. 2
44	1-18	C.S.	Dec. 1971	3 years	1000	955	45	. 1	1
45	1-11	C.S.	Dec. 1971	3 years	1000	794	206	1	1
46	1-00	0.5.	Dec. 1971	3 years	1000	960	40	· 1	1
47	0-12	C.S.	Dec. 1971 ) Dec. 1972 )	3 years	1000 1000	769 ) 749 )	231 251	1 1	1
48	3-17	C.S.	Dec. 1971	3 years	1000	891	109	1	1
49	3-11	C.S.	. Lec. 1971	3 years	1000	941	59	. – 1	1
50 .	2-18		Dac. 1971	3 years	1000	891	109	1	2
						.:			

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
51.	0-39	C.3,	Dec. 1971	3 years	1000	941	59	1	1
52		0.3,	Dec. 1971	3 years	1000	941	59	1.5	1
<b>53</b>	7-21	0.5.	Dec. 1971	3 years	1000	841	159.	1	2
54	4-11	G.5.	Dec. 1971	3 years	1000	841	159	. 1	2
55	3-36	G.S.	Dec. 1971	3 years	1000	942	58	1	<b>3</b> .
56	3-00	C.S	Dec. 1971	3 years	1000	991	9	1	3
5 <b>7</b>	2-36	C.S.	Dec. 1971	3 years	1000	816	184	ı	2
58	2-31	C.S	Dec. 1971	3 years	1000	666	284	1	2
59	2-00	0.3.	Dec. 1971	3 years	1000	851	149	i	1
60	1-26	C.S.	Dec. 1971	3 years	1000	992	8	1	2

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
61	0-23	c.s.	Dec. 1971	3 years	1000	841	159	1	1
62	0-13	0.5.	Dec. 1971	3 years	1000	926	74	ı	1
63	2-37	0.3.	Jan. 1972	3 years	1000	907	93	ı	1
64	1-10	c.s.	Jan. 1972	3 years	1000	832	168	1	1
65	- 5-37	c.s.	Jan. 1972	3 years	1000	898	102	1	1
66	- 2-17	c.s.	Jan. 1972	3 years	1000	873	127	1	1
67	2-09	C.3.	Jan. 1972	3 years	1000	798	202	1	2
68	-2-06	C.S.	Jan. 1972	3 years	1000	823	177	. 1	. 2
69	1-23	C.S.	Jan. 1972	3 years	1000	808	192	1	2
70	.0-35	c.s.	Jan. 1972	3 years	1000	847	153	1	2

	-				.* •			v - 1	4	
1}	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
1	0-12	C.S.	Jen. 1972	3 years	1000	. 738	?62	1	3	
72	3-13	C.S.	Feb. 1972	3 years	1000	949	51	1	2	
/3	2-38	0.3.	Feb. 1972	<b>३</b> years	1000	96 <b>9</b>	31	1	1	
74	2-00	0.5.	Feb. 1972	3 years	1000	1039	<b>-</b> 39	. 1	2	
75	1-20	C.S.	Feb. 1972	3 years	1000	894	106	· 1	2	
76	0-30.	C.S.	Feb. 1972	3 years	1000	854	146	1	2	189
77	5-03	C.S.	Nov. 1972	3 years	1000	724	276	1	2	
78	1-28.	C.S.	Nov. 1972	3 years	1000	709	291	1	1	

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Table 43 : (continued)

Serial No.	Calves f	rom loan	animal ar	nd value	Repa	ayment c	f loan by	30th Apri	1 1972	Balance
	Haifers	Velue	Bulls	Value	Cash	Milk seles	Subsidy	Interest	Totel (Cols.	outstanding on 1st May 1972
(1)	(Nos.) (11)	(Rs.) (12)	(Nos.)	(Rs.) (14)	(Rs.) (15)	(Rs.) (16)	(Rs.) (17)	(Rs.) (18)	15+16+17) (Rs.) (19)	(Rs.) (20)
1	<b>.</b>		-		235	-505	_	58	740	318
2	1	30 .	. •	-	300	185	-	71	485	586
3	-	· • ·	1	15	184	-	-	92	184	908
4	•	• .	<b>-</b> , ,	•	145	360	-	75	505	570
5	<b>2</b>	125	· <del>-</del>	-	184	.280	-	79	464	615
6	-	•	-	-	335	110	222	33	667	366
<b>7</b> . :	•.	•		-	210	32	263	24	50 <b>5</b>	519
8 .	<b>-</b> .	••••	<b>-</b> .	_ *	210	239	263	43	712	331
9	,1	40	-		260	173	246	41	679	362
10	1	50	<b>-</b> :	:	235	245	255	41	735	306

(1)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
11	1	50	. <b>-</b>	<del>-</del>	220	195	260	44	675 <sup>( c</sup>	369
12	r	30	<u>.</u>		213	402	246	30	861	169
13	` <b>.</b>	-	-	• -	153	174	266	31	593	438
14	· •	-	, <del>-</del>	-	153	161	<b>26</b> 6	32	580	452
15	·· 📥	-	• -	•	238	339	237	26	814	212
16	-	· <b>-</b>	-	·. <b>-</b>	163	187	262	28	612	416
17	-		• -	· ;=	188	199	254	27	641	386
18	· <u>-</u> /	<b>.</b>		s <u>i</u>	.63	151	296	32	510	522
19	" 1	50	-	. •	313	183	212	31	708	323
20	-	-	. 1	40	188	167	254	28	609	419

Teble 43 : (continued)

_(1)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
<b>21</b>	· -		<del></del>	-	263	135	229	28	627	401
22	-	-	,1	25		74	-	51	74	97 <b>7</b>
23	-	<b>-</b> '	,	-	146	212	-	41	358	683
24	1	30	. <b>-</b>		257	90	-	32	347	685
F.25	🖦	-	. 1	25		183		49	183	866
26	1	. 20		-	72	150	- A.	38	222	816
27	. 1	75		. •	121	240	-	43	361	682
28	•••	-	<b>.</b>	•	196	17.	-	43	213	830
T 29	; <b>-</b>	- '		-	188	44		35	232	803
30	٠ 🖷 .	, · •	•••	-	138	`130	- ·	35	268	767

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ь	
	_
v	_

(11) (13) (14) (15) (16) (17) (12) (19) (20) <u>.</u> 30 35 -1... **7**-31 " **0**9 81 78 4Ó 

(11)	(12)	(13)	(14)	~	15)	(16)	(17)	(18)	(19)	(20)
-	• • • •	 -	-		101	54	283	_	438	.562
-	-	•	-	-	100	148	285	18	533	485
13	<b>45</b>	- '	, <b>-</b> '		_	139	331	20		550
# · · · · · · · · · · · · · · · · · · ·	-	-	_		-	101	318.	21	419	602
1	50	<u>.</u> 6	••• 1 •• 1	* •	156	189	265	17	610	407
ı	45	-	-		-	127	320	20	447	573 <sup>°</sup>
	<u>.</u>	-	-		181	163	256	16	600	<sub>3</sub> 416
• • • • •	<b>-</b> ,	**	-		50	60	-,	-	110.	. 890
įį	. 40		-	•		60	_	-	60	940
} <b>w</b> .	-		-		50	<b>7</b> 7	- '.'	•	127	873
### with #### was 1988** 			• <del></del> -							(continued)
	1	1 45 1 50 1 45	1 45	1 45	1 45	1 45 100 1 50 156 1 45 181 50 1 40 50	101 54 100 148 1 45 139 101 1 50 156 189 1 45 127 181 163 50 60 1 40 60 50 77	101 54 283 100 148 285 1 45 139 331 101 318 1 50 156 189 265 1 45 127 320 181 163 256 50 60 1 40 60 50 77 -	101 54 283 - 18   1 45 139 331 20   101 318 21   1 50 - 156 189 265 17   1 45 127 320 20   181 163 256 16   50 60 1 40 60 1   50 77	101 54 283 - 438 100 148 285 18 533 1 45 139 331 20 470 101 318 21 419 1 50 - 156 189 265 17 610 1 45 127 320 20 447 181 163 256 16 600 50 60 110 1 40 60 - 60 - 50 77 - 127

Table 43: (continued)

(13) (14) (15) (16) (17) (18) . 936 94. 1. 164 <sub>(657</sub> 164. 99 

..(continued)

Table 43 : (continued)

(11	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
61	-	-	<del>-</del>	-	109	24	-		133	867
62		, <del></del>	₩,	-	24	80	-		104	896
53		50	•	-	43	100	302	. •	445	555
54	.=	-	-	-	118	210	277	, -	605	395
55	, 1	45	-	. **	52	8	-		60 _	940
66 .	. 1	25	<u>.</u>	-	<b>7</b> 7	3	_		80	920
57	-	-	1	25	152	36	_ <sup>6</sup> /e	<b>.</b>	188	812
8	, 1	35	-	-	127	31	_ pi	-	158	842
59	-	<b>-</b> ,		.=	142	-	, <b>-</b>	<b>-</b> ·	142	858
70 <sup>.</sup>	-	-	٦	40	103	31	-	<b>-</b>	134	866
					· J		1.3		•	

(1)	(11)	(12)	· ·	(13)	(14)		(15)	(16)	(17)	(18)	(19)	(20)
71		•		<b>-</b> 200	_		212	28			240	760
72				1	35		1	19	-	10	20	990
73	·.	-		1.	40	-	-	10	-	10	10	1000
74	<b>.</b>			-	-		<b>**</b>	74	346	7	420	587
75	, ı	50		-	-		56	76	298	13	430	583
76	<u> </u>	-		-	_		46	_			46	951
77	. =	-			-		_	<u>.</u> .	-	_		•••
78	<b>.</b> -	<b>-</b>		1 .	20		<u> </u>	-	-	٠ _		_
•	•							. <u>.</u> .				

Table 43: (continued)

Serial No.	Milk yield from all milch	Of Col.21 milk yield	Milk sales	Of Col.23 sales to co-opera-	Value of milk	Amount	Amount	Repay to 30	ment do	uring lst	May 19	72	
	animals during 1st May 1972 to 30th april 1973	from loan animal	lst May	tive society	sales to co-ope- rative society in	adjusted against loan re- payment	received in cash	Cash	Milk sales	Subsidy	Inte- rest	Totel (Cols. 28+29+30)	
(1)	(Litres) (21)	(Litres) (22)	(Litres) (23)	(Litres) (24)	Col.24 (Rs.) (25)	(ks.) (26)	(Rs.) (27)	(Rs.) (28)	(Rs.) (29)	(Rs.) (30)	(Hs.)	(Rs.) (32)	
1	525	525	300	-		=	_		2	255	39	257	
2	525	-	400	-	_	. 24	· - ,	-	24	233	. 68	257	
· 3 ·	640	275	465	462	438	-	284		-		104		198
4	420	420	360	297	39 <b>0</b>	, <del>.</del>	436	_^	40	285	68	325	œ
5	330	330	285	271	250	12	234		12	272	68	284	
6	_	<b>-</b> .	-	•	-			_	-			=	
7	195	-	-		, <b>-</b>	-	-		-		•	-	
8	330	330	195	154.	164	181	-	-	181	_	12	181	
9	675	390	345	182	180	189	-	_	189	<b>-</b>	24	189	
10	420	420	285	249	7259 -	263			263	<b>.</b>	13	263	

Table 43 : (continued)

	1)	(22)		(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	`
	•	-		-	-	-	<u>.</u> .		-				=	
6	45	300		345	107	108	172	-	-	172		. 3	172	
., .	50	<sub>3</sub> , 5 450		235	163	155	186	-	_	186	-	25	186	
; 7	70	270		225	196	205	222		-	222		31	222	
	35	- ± 360		285	118	140	216	· _		216	` }=	; <b>4</b>	216	
<u>,</u>	13	413	13.	<b>286</b>	240	242	254	<b>-</b>	<u>-</u>	254	<u></u>	26	254	199
· 2	05	205	;	. 75	16	19	33	-	-	33		10	33	-
3	75	345		190	81	63	81	· -	<b>-</b> .	81	, <b>4</b>	15	81	
, et <b>L</b>	50	450		255	239	251	300	**	<u>-</u>	300	; <del></del>	1,4	300	
<sub>163</sub> 1	.65	165		75	69	87	114		331	114	•	26.	445	
	5 4 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	450 570 535 413 205 375	450 450 570 270 535 360 413 413 205 205 375 345 450 450	535 360 413 413 205 205 375 345 450 450	450       450       235         570       270       225         535       360       285         413       413       286         205       205       75         375       345       190         450       450       255	450     450     235     163       770     270     225     196       535     360     285     118       413     413     286     240       205     205     75     16       375     345     190     81       450     450     255     239	450       450       235       163       155         570       270       225       196       205         535       360       285       118       140         413       413       286       240       242         205       205       75       16       19         375       345       190       81       62         450       450       255       239       251	450       450       235       163       155       186         570       270       225       196       205       222         535       360       285       118       140       216         413       413       286       240       242       254         205       205       75       16       19       33         375       345       190       81       62       81         450       450       255       239       251       300	450       450       235       163       155       186       -         570       270       225       196       205       222       -         535       360       285       118       140       216       -         413       413       286       240       242       254       -         205       205       75       16       19       33       -         375       345       190       81       62       81       -         450       450       255       239       251       300       -	450       450       235       163       155       186       -       -         570       270       225       196       205       222       -       -         535       360       285       118       140       216       -       -         413       413       286       240       242       254       -       -         205       205       75       16       19       33       -       -         375       345       190       81       62       81       -       -         450       450       255       239       251       300       -       -         165       165       75       60       45       45       10       45       10       25       10       25       10 <td>450       450       235       163       155       186       -       -       186         570       270       225       196       205       222       -       -       222         535       360       285       118       140       216       -       -       216         413       413       286       240       242       254       -       -       254         205       205       75       16       19       33       -       -       33         375       345       190       81       62       81       -       -       81         450       450       255       239       251       300       -       -       300</td> <td>450       450       235       163       155       186       -       -       186       -         570       270       225       196       205       222       -       -       222       -         535       360       285       118       140       216       -       -       216       -         413       413       286       240       242       254       -       -       254       -         205       205       75       16       19       33       -       -       33       -         375       345       190       81       62       81       -       -       81       -         450       450       255       239       251       300       -       -       300       -</td> <td>450       450       235       163       155       186       -       -       186       -       25         570       270       225       196       205       222       -       -       222       -       31         535       360       285       118       140       216       -       -       216       -       4         413       413       286       240       242       254       -       -       254       -       26         205       205       75       16       19       33       -       -       33       -       10         375       345       190       81       62       81       -       -       81       -       15         450       450       255       239       251       300       -       -       300       -       14</td> <td>450</td>	450       450       235       163       155       186       -       -       186         570       270       225       196       205       222       -       -       222         535       360       285       118       140       216       -       -       216         413       413       286       240       242       254       -       -       254         205       205       75       16       19       33       -       -       33         375       345       190       81       62       81       -       -       81         450       450       255       239       251       300       -       -       300	450       450       235       163       155       186       -       -       186       -         570       270       225       196       205       222       -       -       222       -         535       360       285       118       140       216       -       -       216       -         413       413       286       240       242       254       -       -       254       -         205       205       75       16       19       33       -       -       33       -         375       345       190       81       62       81       -       -       81       -         450       450       255       239       251       300       -       -       300       -	450       450       235       163       155       186       -       -       186       -       25         570       270       225       196       205       222       -       -       222       -       31         535       360       285       118       140       216       -       -       216       -       4         413       413       286       240       242       254       -       -       254       -       26         205       205       75       16       19       33       -       -       33       -       10         375       345       190       81       62       81       -       -       81       -       15         450       450       255       239       251       300       -       -       300       -       14	450

Table 43: (continued)

(1)	(21)	(22)	(23)	(24)	(25) 1	(26)	)(27)	(28)	(29)	(30)	(31)	(32)	• 
j - <b>21</b>	•.		· .	•	,=	15	_	15	-	•	<b>.</b>	15	•
22	270	270	-	-	-	-	.=		•	333	29	333	
<u>, , 23</u>	930	360	450	137	138	126	-	-	126	285	19	411	
24	330	330	510	24	22	36		. <b></b>	36	248	20	284	
<u>∵</u> -25	775	390	420	372	448	462	-	<b>-</b> «	462	333.	23	795	
26	465	465	315	301	284	159	65	-	159	<b>-</b> (	24	159	200
27	630	235	29 <b>2</b>	236	193	172	_	_	172	293	19	465	Ç
28	425	-	210	63∕	49	29	19	_	29	268	24	297	•
. 29	·· ·· 3 <b>75</b>	195	182	132	133	63	33.	, <b>-</b> .	63	271	22	334	
30	<b>- 7</b> 35	3.70	488	471	555	469	143	-	469	287	19	756	
-,	. 739	370	488 	471	555 	469 	143	-	469	287	19	756	

(1)		(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	1
31	•	645	480	416	. 389	456	359	119	-	359		16	359	
32		1125	645	578	494	572	449	179	<b>-</b> , .	449	312	22	<sup>`</sup> 761	
33		465	465	300	276	375	261	168	-	261	281	18	542	
34		520	150	290	269	317	245	· •	-	245	322	27	567	
35		930	420	360	88	- 66	99		-	99	314	23	413	
36		120	120	75	65	77	148	•	- '	148	_`	76	148	7
37	:	690	690	368	211	253	177	178		177	-	81	177	•
38		435	435	322	234	, 270	242	97	_	242	<b>→</b> ′	68	242	
39		360	360	201	172	235	245	97	. , <b>-</b>	245		81	245	
40	' <i>f</i>	330	330	210	: 147	206	159	116		. 159	-	71	159	
					· = = ==,	-, -,-,-,-,	 		. <del>-</del>		-,-,-	·		
	;						÷	·	e e e e e e e e e e e e e e e e e e e			(contin	ued)	. •

and the second of the second

(1)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
41	510	510	270	244	3 <b>29</b> ***	329	112	•	329	_	71	329
42	700	390	330	316	360	391`	36	204	391	249	43	844
43	935	660	390	329	373	414		<b>-</b> .	414	-	26	414
44	292	292	. \langle	151	198	184	37		184	-	28	184
45	520	520	390	376	466	418	118	-	418		11	418
46	420	420	, 293 /	274	360	404	8	-	404	-	21	404
47	735	735	585	546	589 <sup>^</sup>	487		204	487	243	34	934
48	345	345	210	201	225	266	3	-	266	29 <b>7</b>	48	563
49	390	390	195	. 185	205	243	-3	-	243	314	52	557
50	498	420	283	261	of <b>269</b>	308	17	-	308	29 <b>7</b>	55	605
								The test of the te	- <u></u>		(con	 tinued)

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Table 43: (continued)

(1)	(51)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	
51	570	570	330	30 <b>8</b>	31 <b>7</b>	361	3	-	361	314	70	675	
52	345	345	157	1,02	108	139	4	10 m m m	139	314	44	453	
53	585	465	<b>300</b> .	260	254	299	41	<u> </u>	299	280	· 🚂	579	
54	653	440	320	293	268	325	18	<del>-</del>	325	280	-	605	
55	600	600	345	321	296	362	67	· -	362	314		676	
56	1190	600	675	581	565	524	-	_	524	330	18	854	203
57	255	255	120	91	78	135	-	÷	135	272	-	407	
58	435	220-	225	175	173	215	27		215	221	-	436	
59	435	435	315	266	237	278	27	· • .	278	284	. : <u> </u>	562	
60	615	375	315	241	248	290	51	-	290	331	· •	621	
:				- 2 - 2 - 2			_,					·	•

(i)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
61	230	230	135	65	69	102	26		102	280	-	382
62	75	75	38	31	27	92	25	300	5 <b>7</b>	309	34	666
63	360	360	172	158	168	65	81	1P	65	_		65
64	150	150	127	105	105	53	52	-	53	<b>-</b> 'Y		53 <sup>-</sup>
65	390	390	242	230	302	338		_	338 ' '	299	47	637
66	360	360	185	132	154	174	2	-	174	291	48	465
67	360	360	228	201	257	302	· ·	· - ·	302	266	40	568
68	518	368	233	176	222	252	_ ~ '		252	274	42 "	526
69	340	105	150	104	109	89	-	-	89	269	64	358
70	345	345	240	210	260	296	<u> </u>		296	28 <b>2</b> °(	45	578°
											· · · ·	
			•							• 2	(cont	inued)

(1) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) **7** 239 . 77. 38, 

Table 43 : (continued)

	Balance out- stand- ing on lst May 1973	Unexpired repsyment period upto maturity of loan	milk seles to co-ope-	Cesh payment received out of sales in Col.35	society	amount of repayment	period upto	standing as per	1971 <b>-7</b> 2	Income from milch animels 1972-73	Remarks		
(1	) (Rs.)	(months) (34)	(Rs.) (35)	(Rs.) (36)	(months) (37)	(Rs.) (38)	maturity (Rs.) (39)	(Rs.) (40)	(Rs.) (41)	(Rs.) (42)	(43)		
1	100	6	1102	595	15	13	17	50	766	. <b></b> 258	<u> </u>		
2	396	8	510	301	15	8	50	347	494	255	_	•	206
3	1013	8	438	284	6 -	- "	127	-	25	-127			0.
4	314	8	1012	612	18	16	39	114	369	330	•	<i>,</i> ,	
5	399	8	831	509	20	10	50 <sup>-</sup>	198	492	-1	-		
6	366	16	in	<b>-</b>	6	13	23	<u>4</u> 75	395	-300	<b>-</b>		
7	519	16	32		2	4	32 <sup></sup>	6500	278	<b>-285</b>	Losn snimsl	died July	1072
8	163	16	419	•	13	28	10	45	467	365		area bury	17/2
9	197	16	365		19	16 ·	12	66	875	64			
10	56	16	510		16	- 28	<sub>3</sub>	12	391	27	•		
-	* ** ** **	.= = = = =					* (*)				(cont	inued)	<b>-</b> .

Teble 43 : (continued)

(1)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)				
11	369	16	- 197	-	7	22	23	244	373	-508					
12	•	-	-		<b>-</b> " ·		_	-	702	20	Rs.50	shares	egair	ıst	
13	277	16	36 <b>9</b>	-	17	<sub>3</sub> % <b>18</b>	17	81	395	-174	Rs.50	loan f	inence	tt .	
14	261	16	399	, <del>-</del>	18	18	16	81	326	-1	Rs.50	. 1.	11	17	;
1,5	÷	-	-	-	r		· •		605	39 33	Rs.50	n	11	11	<del>.</del> .
16 (	188	16	452	.: -	17	23	12	49	456	54	Rs.50	11	11	11	*,
17	363	16	237	<b>-</b> `	9	12	23	186	478	-344	Rs.50	17	11	17	
18	456	16	233	-	13	14	28	246	- 365	-99	Rs.50		- tf	11	207
19	37	16	473	-	15	29	1 .	8	329	-16	Rs.50		11	n	. 3
20	• .	=:	-	-	•	•	••	<b>-</b> , ·	234	<b>-97</b>	Rs.50		11	11	

Table 43 : (continued)

(1)	_{33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)
21	386	16	149	-	8	15	24	316	251	'-25	Rs.50 shares egainst loen finance
22	673	, 18	74	<u> </u>	3	8	38	2926	184	-20	-
23	291.	. 18	769	-	15	14	16 -	137	323	366	
24	421	18	131		8	9	23	569	26 <b>7</b>	-2	· •
25	94	18	740	· - ·	15	38	5	14	607	25	-
26	681	18	437	65	12	21	38	274	139	45	•
27	236	18	468	•••	15	23	26	133	381	127	208
28	557	18	66	19	6,	-	31	-	355	81	•
29	491	18	177	33	8	13	27	458,	481	-257	•
30	30	18	805	138	16	34	2	5	740	<b>9</b> 9	Animal died June 1973
				,							
	*						* · · · · ·	******			(beunitnos)

(1)	·	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	
31	· -	; 	18	<b>7</b> 15	141	17	29	22	72	552	139		
32	<b>\$</b> :	79	18	830	200	16	38	4	14	610	793		
33		153	18	624	168	13	31	9	37	510	169		
34	٠.	442	19	365	13	16	14	23	203	588	268	· · · · · · · · · · · · · · · · · · ·	
35		432	19	288	ے	· 11	18	23	214	285	370		
36	y	591	19	204	95	6	12	31	821	234	. y <b>-178</b> ,	Rs.50 shares against loan finance; Animal sold January 1973.	
37		439	19	451	187	11	19	23	212	268	495	Rs.50 shares against loan finance:	200
38		323	19	444	97	13	21	17	118	372	-114		D
39	:	414	119	411	97	12	20	.22	174	343	-207	Rs.50 " " " " "	
40		453	19	358	127	9	18	24	28 <b>3</b>	435	154	Rs.50 " " " " ; Animal died December 1972.	

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	le 43 :						<b>_</b> _											-
(1)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	<u>'40)</u>	(41)	(42)	(43	) 						-
41	304	19	504	120	13	24	16	97	326	243	ks.	50	shares	. against	loan	finenc	θ.	
<b>42</b> ~	684	31	1316	37	16	30	22	143	2 <b>52</b>	330	Rs. Rs. 1st	50	" " ib lami	" .ed June	" 1973•	n n	;	
43	162	19	564	<b>-</b> ' .	15	34	9	32	449	408				·	***		7.) 	
44.	446	19	339	<b>55</b> à	12	20	24	189	158	-92	Rs.	45	shares	against	losn	financ	θ.	-
45	•		728	120	14	39	•	7.74	400	362	Rs.	·50	T)	- 11	117	11	ż	
46	190	19	554	231	12	41	10	38	243	-268	Rs.	· <b>4</b> 0	11	11	<sup>2</sup> <b>11</b>	11	÷	210
47	516	31	809		16	37	17	86	315	373	Rs. Rs.	50 50	11	<b>91</b>	11	11 11 10 10 10 10	•	0
48	375	19	329	<sup>-</sup> 3	10	28	20	134	172	-111	Rs. Rs.	50 9	n paid c	ash.	, <mark></mark>	11	<b>;</b>	
49	435	19	306	3	10	25 ;	23	173	168	110	Rs . Rs .	50 9	shares	egeinst	loen	financ	<b>e</b> ;	
50	323	19.	402 '	17	13	25	17	98	401	<del>-</del> 57	Rs. Rs.	50 9	shares paid o	egainst	loen	finenc	e;	

Tabl	e 43 :	(continu	ued)				1								<b>.</b>		_
(1)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	- (4	3)					
51	331	19.	428	3	14	25	17	93-	206	318	ï.	50	shares	egeinst	loan	finance.	
52	547	19	187	4	10	14	29	393	117	46	Rs.	50	*1	11	11	11 .	
53	258	19	394	41	13	27	14	73	367	104	Rs.	50	Ħ	**	. 11 .	η	
54	192	19	437	18	14	30	10	46	207	-27	Rs.	. 50	, 17	11	11	. 11	
55	207	19	538	67	15	3 <b>1</b>	11	44	261	-236	Rs.	50	<b>~97</b>	- 11	Ħ,	tt 🗼	
56	-	-	959	271	14	48	<b>-</b> ,	<b>-</b> , `	761	466.	Rs.	. 9	paid c	esh.		:	
5 <b>7</b>	381	19	276	63	6	35	20	178	530	-180	Rs.	50	shares	against	loan	finance.	77.3
58	197	19	325	27	13	23	11	66	648	-367	-	,					F
59	237	19	407	27	16	24	13	62	218	-64	Rs.	50	shares	against	loen	finance.	
60	320	19	392	51	13	26	17	94	308	-33	-						

51	485	19	152	26	9	14	26	385	12	-87	Rs. 50 Animal	shares a	egeinst lv 1973	loan		ce;	
52	264	19	162	25	6	23	14	233	479	-269		sheres					
53	490	20	287	122	12	14	25	297	21	115	Rs. 50	11	. 11	н	11	•	
54	342	20	333	70	7	38	17	130	346	-177	Rs . · 50	<b>67</b>	. 11	. 11	17	, at	
5	350	20	346	•	10	30	18	117	292	<b>-</b> 76	Rs. 50	11	11	11	. 11	•	
6	503	20	1 <b>7</b> 9	2	11	12	25	390	-89	-293	Rs. 50	31	.11	, 11	. 11	• •	
57	284	20	309	•	9	33	14	96	61	-109	Rs. 50	n interest	n, t peid :	n in ces	sh.	;	
8	358	20	260	₩,	11,	22	18	148	111	-47	Rs. 50 Rs. 23	shares a	against t paid	losn in cas	finan	: :	
59	564	20	129	<b>-</b> ·	4	22	28	635	-49	-85	Rs. 50	sheres a	against	losn	finen	CB.	
70	333	20	302	, 🖚	11	26	17	117	55	<b>-7</b> 5	Rs. 50 Rs. 28	" interest	" t psid	" in cas	sh.	<b>;</b>	

Table 43	:	(continued)
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(1)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)
71	340	20	219	-	10	19	17	179	-19	16	Rs. 50 sheres against loan finance; Rs. 12 interest paid cash; Dead July 1973.
72	146	21	551	<del>-</del>	12	44	7	27	266	207	Rs. 50 sheres against loen finance.
<b>73</b> ,	447	21	307	30	9	25	21	194	117	68	Rs. 31 peid cash to cultivator.
74	428	21	261	9	7	31	50	297	253	-82	Rs. 39 peid by cultivator; Animal died September 1972.
75	228	21	499	38	11	38	11	55	2	419	Rs. 50 shares against loan finance.
76	288	21	433	: <b>-</b> :	11	35	14	75 - :	68	130	Rs. 50 sheres against losn finance; Animal died July 1973; Rs. 50 paid cash to cultivator.
77 <u>i</u>	509	30	38		2	12	17	•	165	-51	Rs. 50 shares against loan finance; Animal died June 1973.
<b>7</b> 8	427	30	163	<b>-</b>	5	19	14:	444	75	28	

Table 43 gives the utilization and repayment of medium term loans for milch animals for all the farmers (both small and marginal) who received such animals. The Table sets out details in respect of total milk yield, sales etc. and income from dairying for the two years 1971-72 and 1972-73. Most of the columns are self-explanatory and only a few need to be explained as given below.

- (i) Column 15: Normally cash paid back to the society is equal to the difference between columns 6 and 7 and as given in column 8. However, this will be applicable in respect of finance provided by the Nationalized Banks. In case of finance provided by Co-operative Societies the amount paid in cash towards repayment is less and this as explained in column 43 'Remarks' arises as a result of the borrower having contributed the difference towards share capital of the society.
- (ii) Column 18: Interest paid though shown separately is included in payment by cash or through milk sales etc. This was necessary in view of Nationalized Banks not collecting interest separately but add it up to balance due from the borrower.
- (iii) Column 19: This represents total repayment inclusive of interest accounted and paid i.e. this column is the total of columns 15, 16 and 17. This again was necessary as explained above in (ii). Nationalized banks calculate interest either at the end of every quarter or six months as the case may be, and the interest is carried down to balance due. In effect this may result into compound interest.
- (iv) Column 20: The amount represents balance of principal due from the borrower in case of Co-operative Societies. In case of Nationalized Banks element of interest is likely to be present as explained above in (iii).
- (v) Column 26: The amount adjusted towards repayment is to include both repayment of principal and interest.
- (vi) Column 27:- In a few cases after adjustment to repayment some cash payment to borrowers has been reported and the figure refers to the period 1st May 1972 to 30th April 1973.
  - (vii) Column 31 :- As per Column 18.
  - (viii) Column 32 :- As per column 19.
    - (ix) Column 33 :- As per Column 20.
- (x) Column 38: The average amount of repayment refers to principal only, and that too through milk sales to co-operative society. Repayment of principal in cash or through subsidies has been left out. This had to be so since the balance outstanding on 1st May 1973 has to be repaid only through milk sales or by cash payment. In majority of the cases the subsidy has, already, been adjusted towards repayment. Calculated in this manner it will be possible to measure the burden of repayment in the unexpired period upto maturity of the loan.
- (xi) Column 39:- As per column 38 the average emount here refers to amount of principal to clear the balance

outstanding. It is impossible to assess the interest payment that will be paid by the time the loan is cleared.

(xii) Column 40: Only principal repaid through milk sales has been considered in this column. Balance outstanding in almost all cases, barring loans from Nationalized Banks, refers to principal outstanding. In case of loans from Nationalized Banks the balance outstanding need not be wholly principal outstanding as a result of compound interest.

(xiii) Columns 41 and 42: Income from milch animals is net of current expenses but devoid of depreciation on the milch animals. Income for both the years refers to income from all the milch animals and not the animal purchased against loan.

It has been pointed out under 'Employment in Animal Husbendry' that perceptible rise in employment is difficult to judge and the only possible changes that are likely to be visible will be by way of increase in income either in the nature of additional consumption of milk or additional milk sales. As will be seen from the Table even this increase in income has not materialised in majority of the cases. Income from milch animals has generally been less in the survey year 1972-73 than the previous year 1971-72. Factors that might have contributed to this fall in income have been stated earlier and the major contributory factor was the rising cost of fodder that had eaten into income from milk yield. Home consumption has not materially changed nor have sales increased in the survey year 1972-73. There are quite a few cases that have suffered losses during the survey year.

Repayment of balance outstanding on 1st May 1973 raises a problem in quite a number of cases. Considering Columns 37, 38, 39 and 40 it is feared that quite a few cultivators are likely to run into overdues by the time the loan matures. Since the subsidy has been adjusted against repayment of the loan, the balance outstending as on 1st May 1973 will have to be met out of milk sales. The average sales per month for the previous period upto 30th April 1973 does not assure that the average sales required to clear the loan at the end of the maturity of loan can be met. The period available does not take into consideration the dry period of the animal upto maturity of loan and to that extent the average repayment calculated could be on the low side since the actual period for which milk sales will be possible would be less. Even as the figures tell, the actual per month sales and the required per month sales to clear the loan are in the ratio of 1:4 and more in quite a few cases and that the repayment does not look likely. Alternately, the balance of repayment does not look likely. Alternately, the balance of repayment as low as 17 per cent to as high as 559 per cent for small farmers and between 12 per cent and 6500 per cent for marginal farmers. These are no doubt extremes but there are sufficiently large number of cases where the balance outstanding happens to be around 130 per cent to 250 per cent of repayment of principal effected through milk sales upto 30th April 1973.

## CHAPTER V

## SUMMARY AND CONCLUSIONS

The operation of all the agricultural developmental programmes have, althrough, been heavily in favour of large and to an extent middle forms as against the small holdings which constitute the major portion of the forming household. Wherever the new technology has made an impact on agricultural production the resulting benefits by way of increased returns have not been equally shared by different size group farms with the result that the rich have grown richer and the poor poorer or at least comparatively poorer. The majority of small family farms have not taken up the new technology, may be, because of situations of physical and/or economic uncertainty that results into self-provisioning production as the essential means of livelihood and wherefore, these small family farms are frequently found to prefer cultivating varieties which provide them with maximum security with minimum expense. Invariably these happen to be established local varieties or its variants that had been in vogue for quite sometime.

The handicaps faced by the small farmers differ from area to area. Adoption of new technology would involve deeper commitment than is involved with well established local varieties and essentially the small fermers' resources do not properly fit into the requirement of new technology. If the small and marginal farmers are to be brought into the mainstream of the developmental effort some specific projects, for the potentially viable small farmers and marginal farmers, needed to be formulated that would improve both the 'resource endowment' and the 'resource productivity' of their holdings. The two programmes, SFDA and MFAL, were formulated with this aim in view and to make available to small and marginal farmers the hecessery inputs, including credit, to enable them to participate in the available technology and thereby improve the productivity of their parcel of land through intensive agriculture and diversifying their activities so as to secure supplementary source of income from suitable subsidiery occupations. The aim was, necessarily, to move the farmers from the previous position of mere conservation to that of consolidation. The change-over from mere conservation to consolidation being brought about by broadening the base of production but without increasing the physical area under the farmer's command. Commensurate with this aim the farmers were to be provided with long term credit for investment in land development, development of irrigation through wells etc. The objective was to enable the farmer to get adequate income from list farm and off-farm business to pay for what may be called 'model living' and service the credit for current operations and investment.

It is really difficult to devise a satisfactory defini-tion to distinguish small farmers from large and middle farmers. Some observations describing the economic activity could be made but these cannot be used as workable proposition since these would fail to pinpoint as to which of the farmers would really belong to the category of the small farmer. Between small and marginal farmers, identifying small farmers was of greater importance as the floor area of land holding

for a small farmer would set the limit to the ceiling of the marginal farmer's land holding for inclusion under MFAL scheme. The more important distinguishing feature, beside the land holding, proposed by the schemes and the Project reports was the 'Potential Viability' of the small farmer. While the small farmers were potentially viable, the marginal farmers were not only non-viable but were expected to remain non-viable, at least, for quite some period in the future. The potentially viable small farmer will be such a farmer who in a given period of time will become economically viable as a result of various aids given to him in order to make him and his family a viable economic unit so that he does not have to depend anymore on the subsidies and aids to keep his unit a going concern. The concept of viability relates to a circumstance where the given economic unit is capable of sustaining itself and therefore, the aim of the programme refers to the movement of small farmers, participating in the schemes and receiving subsidies, to self-supporting status where the beneficiaries would take to normal institutional facilities of financing their production. Land is the only resource for employment and income and the viability criterion, therefore, heeds to be defined in terms of income and in defining the small farmer the income criterion has to be translated in terms of land holding. No uniform definition can be laid down in terms of size of holding as this size may vary from area to area according to productivity and economics of land.

Generally the holdings between 2.5 to 7.5 acres were to be covered under the small farmers programmes and holdings less than 2.5 acres under merginal farmers programmes. The criterion was not laid down for irrigated and unirrigated land or the combination of both nor was any income criterion specified. The rough formula for conversion of wet and dry land to arrive at an effective size of holding was to be based on the estimation of likely income from such lands. Since income was to be considered only for the purpose of the conversion ratio, income from land or other subsidiary occupations etc. was totally neglected or connived at leaving the identification of small farmers wholly to the discretion of each Agency which could set the ceiling at 7.5 acres of perennially irrigated land. The potential viability of the small farmer goes by the board. Even for arriving at this holding the directions were not least clear whether such a holding was to be a family holding or the individual land holder's holding. Only subsequently, the Ministry of Agriculture, Government of India, became awere of the lacuna and clarified that family holding was to be the basis of identification. The Ministry, further, added that the proposed ceiling on holding was to be in respect of 'operational holding' but did not care to define it. The operational holding was open to various interpretations as can be seen from Agenda Paper, relating to Farm Management Studies, of July 1967. With so many ways in which the operational holding was defined, it was at least necessary to have indicated the definition that the Ministry deems fit to follow. To add to this the Ministry stated that the schemes of SFDA and MFAL were meant to cater to the 'non-viable' agriculturists. So far as merginal farmers were concerned there is no reason to think that they were not only non-viable as of now but were expected to remain non-viable for quite some period in the future. However, it is very striking to know that even the small fermers, too, were supposed to be no

Through its verious directives the Ministry inveriably shied away from setting up any income criterion that would make the small farmer family a viable economic unit. In the end the distinguishing feature of 'potential viability' of the small farmer was diluted, watered down and ultimately almost discarded, so that as the final result it was only the size of land holding that became the distinguishing feature between the small and marginal farmer.

The SFDA-MFAL Agency, Chiplun, comprising five telukes of hatnagiri district and three telukes of Satara district, found the size of holding specified (2.5 to 7.5 acres for small fermer and upto 2.5 acres for merginal fermers) unsatisfactory as it equated all the categories of land and would not take into consideration availability of irrigation facility, productivity of particular class of land etc. The agency differentiated various categories of land as (i) irrigated rice land, (ii) rain-fed paddy land, (iii) Warkes land, (iv) perennially irrigated land, (v) seasonally irrigated land and (vi) unirrigated or dry land. The suggested workable relationship of different categories of land as equivalent to each other was as below.

73	Trrigated Rice Land	2.5 to	7 5	00700
15	) Irrigated Rice Land ) Rain-fed Paddy Land	3.0 to		
15	Demonstrate Touringted land			
}?	Perennially Irrigated land	2.5 to		
)4	Seesonally Irrigated Land	5.0 to		
13	) Unirrigated or Dry Land ) Warkas Land	7.5 to		
16	I Warkas Land	10.0 to	30.0	acres

To confirm the proposed relationship the Agency appointed a study group to produce the economic relationship between various categories of land with some factual reasoning based on local information. Accordingly the study group came out with two reports, first on 18th December 1971 and the second on 14th August 1972, mostly based on the same data but with drastically different results. In both the reports comparison of various categories of land was based on net income from such land. If the first report was to be relied upon the acreage prescribed for various categories of land had to be set at a lower level. The second report confirmed the relationship on the basis of net income, but being based on the same data seems to be more a result of manoeuvring the net income from land rather than a clean result of the survey data. One fails to understand how, based on the same data, income from some categories of land changes so drastically from Rs. 1600 per acre of perennially irrigated land in the first report to barely Rs. 400 per acre from the same land in the second report. Neither the Agency nor the study group could explain the discrepancy. Based on the first report the meximum income for a small farmer ranges between Rs. 710, based on 10 acres of Warkes land, to Rs. 12000 and more, based on 7.5 acres of perennially irrigated land. The second report produced the income limit of Rs. 3000 and a little more. It seems likely that the Agency had thought of Rs. 3000 net income to make a small farmer family a viable one though this was never stated explicitly. The real advantage of such a manoeuvre was that cultivators with perennially irrigated holding upto 7.5 acres or its equivalents in other categories could be allowed to secure the benefits of the programme.

Another matter relates to definition of 'Irrigated Lends'. The study group and consequently the Agency accepted the definition of irrigated land as given under Section 6A of the B.T. and A.L. Act, 1948. This definition effectively

excludes irrigated lands which have been the result of private investment in irrigation. The same definition need not have been accepted for identification since the purpose was quite different. By accepting this definition the effective ceiling on land holding of a small farmer became 22.5 acres of unirrigated land or 30 acres of Warkas land irrespective of the area irrigated, in such a holding, by private sources of irrigation. By not giving this matter sufficient thought the definition becomes prejudiced in favour of farmers with private sources of irrigation to the exclusion of others.

Similarly, 'Kumri' lands which are more or less akin to ordinary 'warkas' lands had been considered in two talukas of Jawali and Mahabaleshwar but such lands were excluded while identifying small farmers in Paten taluka. By continuing this omission no uniformity of definition is maintained within the jurisdiction of the same Agency. After all if the extent of 'Kumri' land is meagre there should be no difficulty in correcting the 'Master List' of identified farmers and on the other hand if the extent of such 'Kumri' land is quite substantial that could be the very reason why the 'Master List' needs to be corrected to have a uniform pattern in all the talukas falling within the Agency's jurisdiction.

Economic entity, the family, was the major concern of identification of small and marginal farmers as per the proposed programmes of SFDA and MFAL. For some reason or other the identification in this project was of the 'Legal entity' the landholder as per the Village Form 8A. This has, naturally, resulted into identifying more than one small and/or marginal farmer in a single family that stays together and cultivates the lands of all the land holders in the family as a single enterprise. The master lists prepared on this basis are to be scrutinized and corrected to the exclusion of all the identified farmers whose family holdings are larger than the maximum adopted or whose income from all sources is substantial.

## III

The Agency was expected to start functioning from 1st April 1970, but that was delayed on some grounds or other and the working started from October 1970. By end of March 1973 the agency had completed a little more than two years of functioning. The progress reports submitted to the Agency meetings were rarely meent to report the actual work and inveriably resulted into game of numbers. Targets for certain items were decided in acreage while the reporting of progress used to be the number of applicants, loan sanctioned and disbursed etc. The minimum that the Agency could have done in reporting progress was reporting the area for which loans have been sought, sanctioned and disbursed along with number of loanees etc. This information is invariably available with the financing institutions and could have been made use of to give a better reporting of the Agency's activity. This could have given some idea as to how the particular scheme is progressing and is being responded to in relation to the target set for the year or since inception. Even the alternative manner to assess the area etc. is not open to arrive at a fair judgement in view of the differing rates of per acre financing prescribed by the Agency and as practised by the finencial institutions. If the progress is to be meaningfully reported there needs to be quite an amount of improvement in doing so. Curiously no member of the Agency's committee ever raised the matter and everybody was more or less satisfied with the number of applications collected, sanctioned and amount of loan disbursed etc.

By the end of March 1973 the schemes (both SFDA and MFAL) had been operative for at least two years. The Agency took the review of its progress at the end of this period. Targets as per project report, achievement by end of March 1973 and the belance expected to be fulfilled by end of March 1976 (the period of the schemes was extended for a period of two years from March 1974 to March 1976) were as given below:

-	•				
	Item	Target as per project report	Achieve- ment 31st March 1973	farmers	Balance
	Small Farm	ers /			
	Land Development (acres)	10000 }	285	356	10715
3. 4. 5. 6. 7. 8.	Land Levelling (acres) Plough Bullocks (Nos.) Milch Animals (Nos.) Cattle Sheds (Nos.) Poultry Units (Nos.) New Wells Repairs to Old Wells	1000 (1, 2000) 5000 2000 2000 1500 1000	347 1120 2 74 135 22	301 1120 4 74 158 33	1653 3880 1998 1926 1365 978
	Pump sets, Electric Motors, etc. Intensive Culti-	3000	125	141	2875
	vation (acres)	116200	4335	;	111865
Marginal Farmers					
	Land Development (acres)	2000 }	116	255	2014
3. 4. 5. 6. 7. 8.	Land Levelling (acres) Plough Bullocks (Nos.) Milch Animals (Nos.) Cattle Sheds Poultry Units New Wells Repairs to Old Wells Pump sets, Electric	200 ) 200 1000 300 1500 300 100	16 614 15 35 6	35 614 	184 386 300 1485 265 94
	Motors, etc. Intensive Culti-	200	50	56	150
	vation (acres)	16200	10225		5975

Targets and achievements refer to main items and certain other items such as Konkan Bandharas, Lift Irrigetion schemes etc. have been left out as these are essentially collective schemes for investment whereas those given above are individual items of investment though at times two and more individuals come together.

The progress as seen from the figures given above is not at all encouraging and a lot more effort and extension work will have to be put in if any achievement nearer the target set is going to be achieved at the end of March 1976. The achievement looks very poor when operative area of the two schemes (8 blocks for SFDA and 2 blocks for MFAL) and the number of eligible farmers (122804 under SFDA and 74839 under MFAL) under the respective schemes is taken into consideration.

The sample of beneficiaries was limited to long term and medium term loanees only. Total sample size was 63 and 107 farmers for SFDA and MFAL respectively. When the field-work was started it was found that some of the selected beneficiaries had lifted loans for other investment included under the programmes. While the sample size remained the same the number of beneficiary families under each item changed the itemized distribution being as below:

	Purpose	No. of Beneficiary cultivators		
•		SFDA	MFAL	
3. 4.	New Wells Repair to Old Wells Oil Engine, Electric Motor etc. Water Supply, Pipeline etc. Land Levelling and Development	4 1 1 5 10	3 2 1 8 21	
6.	etc. Milch Animals	47	78	

The maximum area that a small farmer could hold, for being eligible to participate in the programme, was stipulated at 7.5 acres of perennially irrigated land or 30.0 acres of Warkas land. These two limits are the extremes of the best and the coarse category of land and the maximum for other categories lies in between these two extremes. The floor area, 2.5 acres of perennially irrigated land and its equivalents in other categories of land, for the small farmer set the ceiling for the marginal farmers land holding. Conversion ratios, for various categories of land were decided in terms of Warkas land as no farmer can be expected to hold land in any given single category. As per the lower and the upper limit aid down for identification some below the lower limit and above the upper limit could be included under the small farmers programmes. Marginal farmers had no lower limit and hence all those above 2.5 acres of perennially irrigated land or its equivalent in other categories should in fact be under small farmers programme in case farmers satisfy land holding prescribed for small farmers. However this was not observable in the sample as instead of farmers family holding being considered for identification the Agency considered the individual land holders holding as per Village Form 8A. The Agency should have provided for the following provisos for identification of small and marginal farmers considering family as the unit rather than an individual land holder.

(i) Members of the femily staying together and

- (i) Members of the family staying together and cultivating lands as a single enterprise, should not be treated as small or marginal farmers even if the individual land holder qualifies on the basis of prescribed land holding for identification but the total land held by the family does not qualify.
- (ii) Land held outside the village by a given farmer should be taken into consideration for deciding the eligibility of the farmer and if such area (within the village plus outside the village) exceeds the prescribed limit that farmer should be excluded from participating in the programme.
- (iii) As a converse to (i) above, if members of a given family were staying separately and cultivating land individually, they should be identified as small or marginal farmers

if their individual area held falls within the prescribed limit even if, as per land record, land held by such individuals appears in the name of a single member.

The sample, though drawn on the basis of an individual loanee, took into consideration the family holding since the interest in the small or the marginal farmer is in terms of the 'economic' entity rather than a 'legal' entity and it was, therefore, deemed fit to consider the family holding rather than the individual beneficiery's holding. In fact the whole family benefits as a result of the individual's inclusion in the programme rather than the individual alone.

Income from agriculture was the major source of income for both the set of farmers. The rise in total income in 1972-73 over that in 1971-72 was essentially the result of rise in income from agriculture over the previous year. This rise in income from agriculture was essentially the result of rise in harvest prices of various agricultural produce and not the result of rise in production. There was a fantastic rise in the value of fodder and this was a result of poor rains during the year 1972-73 both in respect of its distribution and total precipitation. As a result of shortfall of rainfall all the crops suffered and the production was slightly more than fifty per cent of the previous year 1971-72. The rise in fodder prices was felt on the income from milch animals. While there is a small rise or fall in milk production the sales remained more or less at the previous level i.e. the year 1971-72 and so also the consumption by the farmer's family. The fodder prices pushed up the maintenance cost of milch enimals and at the same time the price per litre of milk sold to society remained the same as in 1971-72. This was the major factor, besides other factors such as animals in milch during 1972-73, their yield and total period for which these were in milch etc., that adversely affected the income from milch animals.

Short term financing of agriculture need not be looked

Short term finencing of agriculture need not be looked into detail. Crop loans have almost become Ways end Means advances and the repayment of previous year's dues and fresh borrowing for the incoming year is almost a formality that the rules demand. Medium term loans were solely disbursed for milch animals and 47 and 80 milch animals were supplied to 47 end 78 marginal farmers respectively. All these animals were supplied between November 1970 and November 1972. Of these 14 and 5 animals supplied to small and marginal farmers respectively had been with the beneficiaries for a period of one year or more by the time field-work was started. It means only 19 animals had contributed towards income from dairying in any significant measure in the year 1971-72, the contribution to such income for the same year in respect of others being much less. Repayment of balance outstanding on 1st May 1973 is likely to raise problems in quite a few cases. It is feared that quite a few cultivators are likely to run into overdues by the time the loan matures. Subsidy on cost of milch animals had, already, been adjusted towards repayment of the loan and the balance outstanding will have to be met out of milk sales. The average sales per month upto 30th April 1973 do not assure that the everage sales required to clear the loan at the end of the maturity period can be met. The unexpired period upto maturity does not take into consideration the dry period of animals upto maturity of loan and to that extent the average repayment calculated could be on the low side since the actual period for which milk sales will be possible would be less and the amount will be the same as on 30th April 1973. Even as the figures tell, the actual per month sales and the required per month sales to clear the loan, within the

unexpired period upto maturity, are in the ratio of 1:4 and more in quite a few cases. The balance outstanding on 1st May 1973 as a proportion of repayment of principal effected through milk sales varies from as low as 17 per cent to as high as 559 per cent for small farmers and between 12 per cent and 6500 per cent for marginal farmers. Interest is not taken note of both in respect of repayment upto 30th April 1973 and the balance outstanding to be repaid by the maturity of the loan. Interest payment that will be due by the time the outstanding balance is cleared is difficult to assess and hence was neglected at both the places.

As in the case of medium term loans, loanees with long term loans for New Wells, lend levelling and development etc., are facing the possibilities of overdues. The oustanding on 30th June 1973 is the result of differing periods of loan issue, borrowings during the year 1972-73 and repayment of principal falling due. The investment works proposed have not been completed and some of the beneficieries have already run into overdues, the itemised overdues being as given below:

	No. of benefi- ciary families	Na over- dues	Overdues on account of		
Item			lst instal- ment	2nd instal- ment-	
Small Farmers  1. New Wells  2. Repairs to Old Wells  3. Water Supply etc.  4. Oil Engine, etc.  5. L nd Development	6 1 5 1 8	2 1 2 1 3	- - 2 - 4	4 1 1	
Total	21.	9	6	6	
Marginal Farmers					
<ol> <li>New Wells</li> <li>Repairs to Old Wells</li> <li>Water Supply etc.</li> <li>Land Development</li> </ol>	3 2 8 22	1 3 5	- - - 9	2 2 5 8	
Total	35	· 9	9	17	

The difference in the number of families arises (in respect of small farmers) as a result of one family having lifted loan for two items. Beneficiaries who have run into overdues after having lifted only the first instalment of the loan may have to face difficulties in completing the proposed works as second instalment of the loan will not be available until the overdues are cleared or the instalment overdue has been rescheduled.

There are certain matters relating to subsidy that need attention. The Project reports state that subsidy will be able to meet the gap in security. However, meeting the gap in security is not the role of subsidy. Subsidies are proposed with a view to lessen the burden of repayment in the initial period. So far as subsidy on milch cattle is concerned there are no problems. Subsidies on cost of long term investment raise the problem of adjusting the subsidy amount to loan account or repayment. Since the maximum benefit has to go to the small or marginal fermer, the subsidy needs to be adjusted to loan amount and not towards repayment and this can be done

without extending the period of loan and without any loss to the financing institutions. The financing institutions will not get what is not due to them when subsidy is adjusted to loan amount and the cultivators stand to benefit by making a lower total payment over the ten year period and also through a reduction in equated annual instalment. In addition to this the procedure proposed in Chapter IV allows each cultivator at least one clear season before the commencement of repayment of principal. Since repayment of long term loans for investment is to come out of the increased income resulting from such an investment it is absolutely necessary that the cultivator gets a minimum period of one crop season to derive an increased income before commencement of repayment of principal.

The aim of the programmes was to improve the resource endowment and resource productivity of the small and marginal farmer. This aim was to be achieved through subsidies etc. for investment in agriculture and subsidiary occupations ancillary to agriculture that would result into more employment for the farmer's family and also an increase in income. The selection of sample, as stated earlier, was wholly based in respect of investment loans (long term and medium term loan beneficiaries) only and short term loans relating to intensive cultiation etc. were not taken note of. Under the circumstances increase in employment in agriculture will not be observable unless and until the proposed investments are completed. In view of the fact that most of the proposed investment works are still (i.e. June 1973) incomplete, it is not possible to make any observation as to whether employment in agriculture is increasing or not. As is well understood most of the new technology is largely dependent on assured water supply to crops, and even this technology is yet in an experimental stage rather than a foregone conclusion. It may need to be adapted to particular conditions of soil, rainfall etc. of a given area and then along with this to the particular constraints faced by the individual cultivator. Even where water is not a major constraint the adoption of particular verieties of seed, crop rotations etc. need some time to get adjusted. The extension of area under High Yielding Varieties of Rice and Jowar is not very encouraging. Even when the achievement had been noteworthy certain questions need to be answered before accepting the figure of achievement; how much of the increase in area is the result of natural spread and how much the result of increased seed distribution by the department; had enny follow through been maintained in respect of previous participants and so on. The sample farmers by and large do not report use of any other variety of seed for paddy, jowar etc. than the local ones or the ones that had been in v

Once it is well understood that HYV had not made much of a dent in the cropping and for whatever reasons and also that the long term investment is still in the process of execution and completion, there is no possibility of any increase in employment in agriculture as such. Under the circumstances employment data, pertaining to agriculture, presented refers to the current cropping and husbandry practices and does not report anything by way of increase in employment etc. This data, in fact, will serve only a limited purpose of reporting the existing employment pattern in agriculture. Its further use will be to assess the changes in employment at a subsequent period when investment in land by way of

New wells, Repairs to Old Wells etc. are completed by the cultivator and at least one constraint to their taking up to new crop varieties and then to the new technology is removed. This, for certain, assumes that the short term credit will not be a constraint that will keep the cultivators away from the advantages of new technology. However, other constraints such as risk, security expectations etc. are not taken note of at the moment. These can become observable when the resource position makes it possible to take up the new crop varieties, new set of rotations etc. that are expected to go a long way towards increase in employment and income.

The above relates to family labour in agriculture. Agricultural wage labour, too, would be facing the very conditions. Additional employment opportunities for them are not likely to occur unless the investment in land has been completed and the new technology pursued by the farmers.

There is very little that can be said of increase in employment in non-agricultural occupations. The existing employment pattern might or might not show any worthwhile change. After all this change is more likely to be affected by the felt needs of the preponderent class of cultivators and agricultural labourers.

The last category is that of employment in dairying and animal husbendry. Unlike investment in lend, investment in milch animals materialises the moment the animal has been purchased. The difficulty arises with the assessment of additional employment resulting from such an investment in milch animal. After all majority of the cultivators have some livestock and an additional one animal is not likely to add to the existing employment that can be really observed and assessed. Thus, perceptible changes in employment are difficult to judge. The only possible changes that are likely to be visible will be by way of increase in income either in the nature of additional consumption or additional milk sales. Even this rise in income has not materialised. As will be remembered, majority of the milch animals purchased against loan finance were during the period October 1971 and March 1972. Even amongst the rest there are only a few animals that had a clear one year period by the time the field-work started. Under the circumstances it will not be very much wrong to assume that, barring in a few cases, the contribution of milch animals, purchased against loan, to income from dairying will not be of much consequence and wherefore in larger number of cases income from milch animals, for the year 1971-72, refers to previous livestock of the cultivators. Bearing this in mind we find that income from dairying in the survey year 1972-73 is less than that in 1971-72 in almost all cases. Verious factors, as enumerated earlier, might have contributed to this but the main factor was the rising cost of fodder that has eaten into the income from milk yield. Home consumption has not materially changed nor have the sales increased in the survey year 1972-73. On the whole even rise in income though expected had not materialised. If this situation, raising costs of maintenance eating into income from milk yield, continues for another two years i.e. upto maturity of the loan then the much expected rise in income will mostly be not there. Th

years from the date of purchase of the milch animal. This gain, too, is based on the assumption that the calf immediately after the purchase of the animal is a heifer that at the end of four years will be about to calve and then start yielding milk. The cost of raising and maintaining such a heifer has already been accounted under maintenance cost of milch livestock and reduction in net income from dairying.

Unfavourable land/labour ratio happens to be a major factor coming in the way of increased employment and income. Generally it is the land that is the limiting factor for increased production. The proposed product mix will have to be of the nature that will increase not only incomes but employment, both for family and hired labour, also. To that extent cash crops that can be further extended under rain-fed conditions need to be pursued. Most of the cash crops are more labour demanding than most cereals. Labour intensive cereals such as High Yielding Varieties need to be popularised.

This points towards preparation of individual farm plans which under present conditions does not seem possible. Even if generalised farm plans are devised certain questions need to be answered. Subsistence for the family has been a major consideration in almost all the cases. The problem arises whether the self-provisioning production, the main premise of the farmer, can really be disregarded. If large-scale cash cropping can be really possible, subsistence constraint will make the farmer poorer. Availability of foodgrains either in the open market, at reasonable prices, or from Government's own grain storage cannot be much relied upon and to that extent subsistence constraint cannot be wholly disregarded. This would mainly point towards faster adoption of High Yielding Varieties, improved techniques of cultivation etc. that will give a real boost to production and at the same time bring about a reduction in area under subsistence crops. This asks for a massive and at the same time for an intensive extension effort.

The high Yielding crops drain the soil of its nutrients. Expensive nitrogenous fertilizers—the only answer at present—will not solve the problem for ever. If fertility of the soil is to be conserved it would call for readjustment of rotation and this would be a comparatively slow process. The adjustment of rotation would take some time to yield the best results especially when new crops or varieties are going to be introduced. The movement will necessarily be by bringing marginal area under the new crop or variety to be fitted into the rotation and the progress will depend on the cultivator's assessment of beneficial results either in terms of better economic returns or non-economic gains by way of extra leisure.

An alternete way out would lie in isolating the nitrogen fixing bacteria and introducing this into the cereal plant roots. Leguminous plants harbour certain useful bacteria, like rhizobium, to obtain nitrogen (N) directly from the air. Researchers at University of Nottingham, U.K., have isolated rhizobium infected root of the Soyabean. These will be fixed with root cells of other plants to grow the N-fixing property into the new host. The improved cells will then be implanted back to the parent plant. However, all this is in an experimental stage and progress is yet to be reported and these technical developments would fall outside the purview of the SFDA and MFAL.