Overall benefits - Cooperative versus Control Villages

7.1 INTRODUCTION

The previous chapters indicated results of the field survey village-wise for each of the three selected milksheds and comparisons were
made between the cooperative & control villages in the same milkshed.

At the end of this study, it may be useful to present the results in a
consolidated form comparing the three cooperative villages with the 4
control villages.

The comparison was made in the parameters of distribution of land and milch animals, Milk Animals & Milk Production, Milk disposal, price realized & gross cash income, household income, employment, calorie & proteinIntake and Asset Accumulation. The findings are briefly described | below:-

7.2 DISTRIBUTION OF LAND AND MILCH ANIMALS

As can be seen from Table 7.1 the lower size groups i.e. the landless & marginal farmers in the cooperative village own a considerably
greater proportion of animals (42.7%) than their counterparts in the
control village (23.3%. Though the land distribution was also uneven
the ownership pattern was slightly better in the cooperative villages.
This means that the rural poor in the cooperative villages have benefitted more from dairy development than from agriculture.

7.3 MILK PRODUCTION & PRICE REALIZED

Table 7.2 indicates the average milk production per household in the cooperative & control villages in the 3 districts. It can be seen that the average milk production of the land owners in the cooperative

TABLE 7.1

Distribution of land and milch animals according to size of land holding classes in all the 3 cooperative & 4 control villages.

	Cooperativ	ve villages		Contro	Control villages	
Land holding size classes	Krishnayapalam % of house- hold	Anawal % of land	Khaikheda % of milch animals	Abbarajupalam % of house holds	Dondapady % of land	Sunnvalla, Charan % of milch animals
Landless	24.67	00.00	17.4	19.1	00.00	10.8
0-2.5 acres	19.59	9.3	25.3	12.17	ស ក•	12.5
2.5-5 acres	19.51	12.11	21.8	13.0	9.6	22.2
5-10 acres	17.54	22.53	19.8	25.3	26.2	26.5
Above 10 acres	18.69	56.06	15.7	30.5	59.1	28.0
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PARTICULARS		ative villag YAPALAW,ANAW DA)		(ABBARAJ	ontrol villague De La Companya (November 1988) De La Companya	
	Owners	Landless	Total	Land owners	Landless	Total
1. Total No. of households	919	301	1220	769	182	951
2. % households with milch animals	79•49	42.19	70.27	46.77	18.69	49•94
3. No. of milch animals	2646	1 38	2784	805	50	855
4. Av.number of milch animals per hh.	2.85	1 . 68	3. 84	1.96	1.44	1.90
5. Av.milk production last month(L/hh)	241 • 41	107.8	218.16	96.41	68 .98	94.02
6. Average milk production last month(L/hh) milch animal in milk	155•18	167.00	155.64	91.72	89.68	97.15
7.Average liquid milk sold to (L/hh) - Cooperatives	185.58	73.28	165.31	0	0	0
- Others	10.17	8.79	9.97	64.92	37.82	62.58
- Total	195.75	82.07	175.28	64.92	37.82	62.58
8. Liquid milk retained (L/hh)	45•65	25 . 7	42.87	63.58	54.17	62.75
9. % liquid milk sold to produced	81.09	76.16	80.34	34.05	21.47	33.26
10. Value of liquid milk sold to (R/hh)					`	
-Cooperative	627,64	237.15	556.98	0	0	0
-Others	33.98	29.84	33.41	121.73	70.83	117.32
-Total	661.62	266.99	590.39	121.73	70.83	117.32
11.Average price realized (Rs./L)	3 . 16	3 . 16	3.16	1.87	1.87	1.87
12.Sale value or milk products(Rs/hh)	24.49	14.20	22.80	9.74	2.13	9.30
13. Gross cash income from milk & milk products (Rs/hh)	686.11	281.19	613.19	131.47	72.96	126.6

villages was 69% higher and that of the landless 86% higher as compared to that in the control villages. It is also significant to note that the average price realized for milk by the land owners as well as the landless groups was 70% higher when compared to control villages. The gross income from milk & Milk products in case of the land owners in the cooperative villages was 422% higher and in case of the landless 285% higher when compared to their counterparts in the control villages. The remarkable performance in the cooperative villages could be attributed to the higher milk yield and higher milk price.

7.4 HOUSEHOLD INCOME OF VARIOUS CATEGORIES OF HOUSEHOLDS IN THE COOPERATIVE & CONTROL VILLAGES

Table 7.3 presents data on the level and sources of household income in the cooperative & control villages in the 3 districts. The household income from all sources in the cooperative villages was 6% higher as compared to the control villages. In the case or the landless group it was 19.5% and landed 8.2% higher than their counterparts in the control villages. It is significant to note that in the cooperative villages the average income from milk for the landless households was 1665% higher than in the control villages. This is because the households in the control villages scarcely derived any income from milk. Thus dairying is one of the most important sources of income in the cooperative villages particularly for the lower groups. Income from other sources of the landless group in the cooperative villages was 31% lesser when compared to the control villages. This indicates that the landless group concentrates more on other sources in the absence of a regular market for milk. Similarly the status of crop farming was better in the control villages for the same reason.

TABLE 7.3

HOUSEHOLD INCOME OF VARIOUS CATEGORIES OF HOUSEHOLDS IN ALL THE COOPERATIVE AND CONTROL VILLAGES (GUNTUR, SURAT & BHOPAL)

11a,		,							
u, Sunva	from	Total	4392.06	4612,68	6454.39	9046.71	11404.92	8858.30	8003,56
Control villages (Abbarajupalem, Dandapadu, Sunvalla, Charnal)	annual income (Rs./hh) from	Other sources	တံ	2283.18	2976.23	3741.04	3804.77	3424.73	3588.32
Abbarajupal Charnal)	annual ir	Crops	 	1944.10	2958.78	4436.91	6606.73	4645.96	3756.83
llages (A	Average	Milk	112.5	385.4	519.38	868.76	993.42	787.60	658.40
Control vil	Share in	Total No. of house- holds	19.1	12.0	15.0	25,23	30.6	Landed house-	holds 951
Anawal,	(Rs./hh)	rot	5252.32	6640.47	7732.56	11739.46	12593.55	9593.27	8522,26
ayapaleem	ncome (Re	Other Sources	3266.00	2460,88	2565,29	3384.59	2754,40	2776.05	2896.93
s (Krishn	Average Annual Income	from Grops	! ! !	1710.30	2358.05	5603.43	6810.90	4101.62	3089•66
villages	Average	Milk	1986.32	2469.27	2629.22	2751.44	3028.25	2715.60	2535.67
Cooperative villages (Krishnayapaleem, Anawal, Khaikhada)	Share in	Total No. of house- holds	24.7	19.5	19.5	17.5	18.8	75.3	1220
Category of	(acres)		Landless	upto 2.49	2,5 to 4,99	5 to 9.99	10 & above	Landed house hold	All categories

* Other sources include self employment in non-farm activities & wage paid employment.

^{**} Figures in parenthesis represent percentages of the aggregate income.

7.5 LEVEL & SOURCES OF EMPLOYMENT OF FAMILY LABOUR

The total employment of family labour in all activities for all the households in the cooperative villages was 22% higher than in the control villages (Table 7.4). Employment of family labour in dairying for the landless group was about 90% higher when compared to the control villages. This is significant in as much as it indicates the importance the landless groups attach to Dairying as 'other sources' was only 3% higher in the control villages in respect of the landless groups. Employment in crop cultivation was 7% higher in the cooperative villages.

7.6 NUTRITIONAL VALUE IN TERMS OF CALORIES & PROTEINS

The consumption of all food items in general was significantly higher and more balanced in the cooperative village (Tables 7.5 & 7.6). This could be the result of the regular flow of income from milk sales. The rood intake of the landless groups in the cooperative villages was higher (i.e. 2096.2 calories of various food items and 57.7 gms per day of proteins as compared to 2025.3 calories and 42.7 gms per day in the control villages. This group has been able to maximize the total calorie intake from food.

Consumption of proteins by all categories of people in the cooperative village was significantly higher in the cooperative villages. when compared to the consumption in the control villages. Protein intake increased with the increase of land holdings.

7.7. GROWTH IN RURAL ASSETS

Tables 7.7 and 7.8 indicate that in the cooperative villages about 52% of the members have bought assets for their houses. This is very

TABLE 7.4

Level & sources of employment of family labour by categories of households in all the Cooperative & Control villages of GUNTUR, SURAT & BHOPAL

Category of	Cooperative Villages (Guntur, Surat & Bhopal)	rative Vi urat & Bh	llages opal)		Control Villages (Abbarajupalam, Dondapadu Sunvalla & Charnal)	ontrol V palam, D & Charna	illages ondapadu, 1)	
households	Dairying	Crops	Other Sources	Total	Dairying	Crops	other sources	Total
Landless	87.39	ſ	502.7	590.1	46.1	ı	516.8	562.9
Landed	190.24	228.7	156.6	575.54	122.0	213.5	125.5	335.5
All	165.6	228.7	242.0	636.3	107.5	213.5	200.4	521.4
						,		

* Figures in parenthesis represent percentages of employment.

Lategory	Cereals	Pulses	Milk & Wilk products	Fruits & Vege- gables	Meat/ Fish	Fata & Oils	Sugar & Jaggary	Total
andle	1694.8 (81.0)	55.9 (2.7)	104.9 (5.0)	22.9 (1.0)	22.8 (1.0)	98.5 (4.7)	96.4 (4.6)	2096.2 (100)
	2171.6 (78.0)	106.5 (3.8)	122.4 (4.4)	37.3	60.5	121.3 (4.4)	163.1 (5.9)	2782.5 (100)
2.5 to 5 acre	2357.1 (78.0)	118.1 (3.9)	172.2 (5.7)	34.3	32.7 (1.0)	137.4 (4.5)	169.8 (5.6)	3021.6 (100)
5-10 acres	2343.4 (73.0)	164.4 (5.1)	282.4 (8*9)	44.7	33.2 (1.0)	162.1 (5.0)	181.3 (5.6)	3211.5 (100)
Above 10	2365.1 ((71.8)	152.3 (4.6)	273.3 (8.3)	46•6 (1•4)	72.3 (2.2)	170.8 (5.2)	213.2 (6.5)	3293.6 (100)
				PROTEL IN I	INTAKE IN ((GMS)		
Landless	43.7 (75.7)	(4.1)	4.8 (8.3)	1.9 (3.3)	3.2 (5.5)	1 1	; ;	57°7 (100)
0-2.5 acres	60.7 (71.1)	8.3 (9.7)	6.2 (7.3)	1.8 (2.1)	8.4 (9.8)	1	1	85.4 (100)
2.5-5 acres	71.6 (76.4)	7.2 (7.7)	6.5 (6.9)	(2°8) (2°8)	5.8 (6.2)	1	ı	93°7 (100)
5-10 acres	68.4 (71.8)	11.4 (12.0)	8.3 (8.7)	2.7 (2.8)	4.5 (4.7)	1	1	95.3 (100)
Above 10 "	74.3	12.1	8.4	2.3	10.8	1	í	107°9 (100)

(Calories/day)

Cooperative villages (Krishnayapalam, Anawal, Khaikheda)

FOOD ITEMS

* Figures in parenthesis indicate percentages.

Calorie & Protein Intake from different food items in the four control villages (Abbarajupalam, Dondapadu, Sunvalla, Charnal)

TABLE 7.6

LTEMS	
2	1
ŏ	

Category	eals		Milk & Milk pro-	Fruits & Wege-tables	Meat/ Fish	Fats & Oils	Sugar & Jaggary	Total
Landless	1672.3	39•7 (2.0)	40 (3: 4)		59.1	105.7	96.8	2025.3
0-2.5 acres	1717.2	42.3	87 (3, 4)		1 m	96.7	123.5	2094.8
2.5 to 5 "	1837.4	57.0	135		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	116.6	9.09.0 20.09.09.09.09.09.09.09.09.09.09.09.09.09	2352.2
5-10 acres	2177.3	59-0	193.6		7.5	123.6	172.9	2762.5
Above 10"	2179.5 (76.57)	78.3	216.0 (7.57) PROTEIN	. 32.7 ((.c) INTAKE (IN	12.9 (-5.7) GMS)	146.2 (5.e)	181.3	2846.9 (160)
Landless	32.4 (76.4)	3,00 (-5,00)	1 *9 (5:2)		4.5		Î	42.7
0-2.5 acres	41.2 (48.0)	4 ° (5 ° (5 ° (5 ° (5 ° (5 ° (5 ° (5 ° (3.5 (5.5)	(2.0)	2.8	i	ì	52.7
2.5-5 acres	49.8 (44.0)	ν.ε. Θ.ε.	7.0		2.0	ı	1	64.8
5-10 acres	1.27.	8	1.	9.	, φ.[, - .]	ı	1	72.4
Above 10	(0°3t)	ن ق ق ق ق ق	ر الرق الرق الرق الرق	(3.5) (3.5)	(5.4) (5.4)	ı	ı	77.8
	,		THE PROPERTY OF THE PROPERTY O					

FIGURES IN PARENTHESIS INDICATE PERCENTAGES

Moveable & Immoveably Assets acquired by members in the cooperative villages in GUNTUR, SURAT & BHOPAL

ITEMS	Categori	ies of Farmers	3
	Landless	Landed	Total
	Arrived spaces command process delicated response to	rent house arento appeal sorbig popula Mente	MORNING ARRIVANT AND AND ADDRESS OF
IMMOVEABLE ASSE'TS			4.5.0
HOUSE BUILDING		21.5	12.8
Repairs & Improvement of housing facilities	34.4	19.3	21.3
Agricultural land	-	9.6	5.7
Others			
FARMING MACHINERY/ IMPLEMENTS & TOOLS			
Bullock cart	6.7	7.4	7.6
Tractor	-	5.9	3.5
viesel Pumpset	-	੪ ₊1	4.9
Electric Motor	***	11.1	6.7
Others	•		
NON FARMING ASSETS (MACHINERY)			
Sewing Machines		2,2	1.3
Bicycle	6.7	11.5	6.7
Moped/Motor cycle/Scooter	0	2.2	1.3
Others	2.2	3. 6	3.1
NOTHING/CAN'T SAY/NO ANSWER			
NON FARMING ASSETS (HOUSEHOLD)	-		
Wrist watch/clock	16.7	19.3	17.8
Transistor	17.8	19.2	18.7
Refrigerator	-	6.6	3.9
Electric Fan		14.0	8.4
Tape Recorder	-	8.9	1.3
Kitchen appliances	***	2.2	1.3
Gobar gas Plants	-	3.7	2.2
Kitchen utensils	49.9	25.9	35.6
Furniture	7-8	11-8	10.2
Others			
NOTHING/CAN'T SAY/NO ANSWER	47.76	48,14	48.0
TOTAL NUMBER OF RESPONDENTS	90	135	225

IMMOVEABLE & IMMOVEABLE ASSETS ACQUIRED BY MEMBERS IN THE CONTROL VILLAGES IN GURNTUR SURAT & BHOPAL

ITEMS	CATEGOI	RIES OF FARME	RS
	Landless	Landed	TOTAL
IMMOVEABLE ASSETS	-		
House Building		5•9	3.6
Repairs & Improvement of housing facilities	3	11.9	8.3
Agricultural land	_	7.3	4 • 4
Others	***	***	
FARMING MACHINERY/IMPLEMENTS & TOOLS			
Bullock cart	-	4.6	3. 6
Tractor	_	3.3	1.9
Diesel Pumpset		6.7	3.9
Electric Motor	-	7•9	4.8
Others	_	8.0	4.8
NON ARMING ASSETS (MACHINERY)			
Sewing Machines	-	2.6	1.6
Bicycle		2.6	1,6
Moped/Motor cycle/Scooter	-	2.0	1.2
Others	-	2.7	1.6
NOTHING /CAN'T SAY/NO ANSWER			
NON FARMING ASSETS (HOUSEHOLD)			
Wrist watch/clock	1.0	8.6	5.6
Transistor	2.0	12.0	8.4
Refrigerator	-	•••	****
Electric Fan	-	3.3	2.0
Tape Recorder	-	•5	•3
Kitchen appliances	-	_	
Gobar gas plants	-	- .	
Kitchen utensils	6.7	9.1	8.1
Furniture	, -	5•5	3.3
Others	-	5.9	3. 6
NOTHING/CAN'T SAY/NO ANSWER	82	65•9	72.4
TOTAL NUMBER OF RESPONDENTS	100	150	250

Singularly noticeable are moveable assets such as wrist watches/clocks Transistors, Kitchen utensils and furniture which are 17.8%, 18.7%, 35.6% and 10% respectively compared to 5.6%, 8.4%, 8.1% and 3.3% respectively in the control villages. Growth in immoveable assets was distinctly discernable in the cooperative villages than in the control villages as can be seen in Table 7.7 and 7.8.

It is obvious that members in the dairy villages received more economic gains from the sale of milk when compared to their counterparts in the control village.