
CHAPTER - III

DATA ANALYSIS

III.1 DATA ANALYSIS

This type of sample is a stratified random sample. Sample is selected from each zone. The farmers are selected so that 70% are having less than 2 acres, 20% are having sugarcane between 2 to 4 acres and 10% are having more than 4 acres. The sample taken is 1.5 of total population of 65.72. 'A' producer members. The total population of the member farmer is divided into 9 agricultural zone of factory area from each zone. 1.5 sample is taken. The total sample taken is 100 member farmers. The figure 100 is taken in order to simplify the calculation. Villages from each zone are selected on Lottery System, Members are selected from sequential list. Opinions are taken of the members for 5 years. The period is selected of 10 years. i. e. 1973-74 to 1983-84, necessary information are taken from annual reports, other publication made by the factory i.e. secondary data, for calculation cost of cultivation information of 1983-84 is used.

TABLE NO. 8

SAMPLES

Sr. No.	Zones	No. of villages	'A' Class Members	Selected villages.	Sample taken	A	B	C
1.	Sankeshwar	15	919	Ankale & Solapur	14	9	3	2
2.	Yamakanmardi	28	716	Kurni & Hebbal	11	8	2	1
3.	Hukkeri	30	917	Hukkeri & B. Bagewadi	14	9	3	2
4.	Bellad Bagewadi	28	742	Konnur & B. Bagewadi	12	8	3	1
5.	Karoshi	23	632	Chikodi & Karoshi	10	7	2	1
6.	Khadkalat	28	540	Nipani & H'gad	7	5	1	1
7.	Gadhinglaj	12	566	Hebbal & Dundga	9	6	2	1
8.	Bhadgaon	21	781	Bhadagaon & Nool	12	8	3	1
9.	Halkarni	14	721	Aralgundi & Nanganur	11	8	2	1
TOTAL		199	6,572		100	68	21	11

- (1) Column 1,2,3 from factory records
 (2) A = Sugarcane having less than. 51
 (3) B = 2 acres
 (4) C = More than 4 acres (Sugarcane) 51
 (5) A+B+C = 100 producer members
 (6) Selected Villages - 14.

TABLE NO. 9OPINIONS OF THE MEMBERS DURING LAST FIVE YEARS

Sr. No.	Variables	Yes	No	TOTAL
1	2	3	4	5
1. <u>EDUCATION</u>				
(A)	Illiterate	70	-	100
(B)	Literate	30	-	
	i) Pre-primary	15		
	ii) High-School	7		
	iii) Higher	<u>8</u>		
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2.	Satisfactory price paid by the factory	30	70	100
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3.	<u>Agricultural Inputs Factory provides</u>			
	i) Seeds	70	30	100
	ii) Fertilizers	-	100	100
	iii) Any other Manures Mali	100	-	100
	iv) Irrigation	45	55	100
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1	2	3	4	5
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4. Factory Provides Agricultural Equipments

i)	Machinery, Truck, Tractor	40	60	100
ii)	Pipelines, Pumpsets	-	100	100
iii)	Any subsidy on it	-	100	100
iv)	Factory gives guarantee to the banks and societies	100	-	100
v)	Factory gives boring machine, blasting machine on rented basis.	100	-	100
vi)	Factory gives technical guidance for cultivation	60	40	100

5. Factory Provides

i)	Sugarcane transport	100	-	100
ii)	Sugarcane harvesting	100	-	100
iii)	Pay any Bakshis to labour during harvesting.	-	100	100
iv)	New approach road to the villages.	60	40	100

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1	2	3	4	5
6. <u>Factory Provides</u>				
i)	Plants of mango, coconuts etc.	-	100	100
ii)	Sugar at concessional rate	100	-	100
iii)	Aids to gobar gas, poultry.	-	100	100
7. <u>Other facilities factory Provides</u>				
i)	Group marriage	-	100	100
ii)	Medical Camps	100	-	100
iii)	<u>Education</u> :			
	A) Primary	20	80	100
	B) High-School	90	10	100
	C) College	80	20	100
	D) Technical	-	100	100
8. <u>Capital Formation</u> Purchased after the commencement of the factory.				
i)	Trucks	5	95	100
ii)	Tractors	6	94	100
iii)	Pumpsets	60	40	100
iv)	Engines	45	55	100
v)	Land	20	80	100
vi)	Bullocks	90	10	100
vii)	Bullock cart	80	20	100
viii)	Constructed Well	30	70	100

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TABLE NO. 11

AVERAGE COST OF PRODUCTION OF SUGARCANE , AVERAGE SUGARCANE PRODUCTION
PER ACRE PROPOUND FROM TABLE NO. 10.

Division Number.	No. of Cultivators	Total Sugarcane production (M.T.)	Average Sugarcane Production (M.T.) (Per Acre)	Total cost (Rs.)	Average Cost (Rs.)	No. of cultivators	Total sugarcane Production (M.T.)	Average cane Production.	Total Cost (Rs.)	Average Cost (Rs.)
1.	8	157	19	35,535	4,441	6	108	18	22,330	3,721
2.	7	167	23	37,515	5,359	4	83	20	17,490	4,372
3.	8	174	21	38,845	4,855	6	120	20	24,150	4,025
4.	8	168	21	38,595	4,824	4	78	19	14,835	3,708
5.	7	142	20	32,820	4,688	3	53	17	11,370	3,990
6.	3	70	23	15,410	5,136	4	86	21	14,805	3,701
7.	7	193	27	44,805	6,400	2	48	24	9,830	4,915
8.	3	80	26	17,890	5,963	9	207	23	40,060	4,451
9.	5	136	27	29,790	5,958	6	139	23	26,610	4,435
Total 56	56	1,287	22 M.T. Average Production.	2,91,205	5,200	44	922	20	181,480	4,124

Each farmer has given information about one acre from in each division sample-wise total cost and total production, average cost and average production is calculated.

e.g. (1) $\frac{\text{Total cost}}{\text{Total cultivators}} = \frac{2,91,205}{56} = 5,200$ Cost of sugarcane cultivation per acre (plantation)

(2) Total Cane Production 1,287 = 22 M.T. Sugarcane production per acre
Total cultivators 56 (plantation)

(3) Average cost of production per acre
in Khodava is Rs. 4,124.

TABLE NO. 12NET PROFITAVERAGE COST OF PRODUCTION PER ACRE

Sr.No.	Item	Amount (Rs.)
1.	Ratton of Khodava	4,124
2.	Plantation	5,200
3.	Sugarcane production	22 M. T.

Factory has paid Rs. 255 per M. T. in 1983-84.

The members get the income in the following way :

Ratton	-	Income	5,610
		Cultivation Cost	4,124
		Net Income	<u>1,476</u> =====
Plantation	-	Income	5,610
		Cultivation cost	5,200
		Net Income	<u>0,410</u> =====

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