# PRODUCERS' PERCEPTION AND ATTITUDE TOWARDS DAIRY COOPERATIVES IN DHARMAPURI DISTRICT - A STUDY

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#### Abstract

India is the world's single largest milk country accenting for around 15 percent of the world milk production. In proposed milk production, this Dharmapuri has a major contribution. This work's primary data is collected from 5 Milk Producers Co-operative **Societies** Dharmapuri district. in Secondary data is collected from Milk **Producers Co-operative Societies and** Milk Producers Co-operative Union. Apart from the official sources from different sections and audited annual reports, the extensive utilization of libraries, journals, Books, Magazines, Reports and Economic Survey and Web sites were made. Finally evaluated for percentage analysis, descriptive statistics, Mean Standard Deviation and coefficient variation, inferential statistics such as ttest, chi-square test and Factor analysis were used tools for this work. It is used for Computer Application in the Dairy Cooperatives through the Social Science Statistical Package Version 20.

*Keyword*: Dairy cooperatives, Perception, Attitude, Producers

### **I.INTRODUCTION**

The dairy co-operatives in Tamil Nadu are to provide sound infrastructure

facility to the dairy farmers. The Tamil Nadu dairy co-operative has a wide network and engaged in the various promotional activities' public health, education, marketing, agro processing, consumer activities. insurance infrastructure development in the dairy farmers. These infrastructure facilities enhanced the economic life of the dairy farmers or provided facility to dairy farmers sufficiently. In this backdrop an attempt is made to study the economic development of the dairy farmers in Dharmapuri district.

The All-India Rural Credit Review Committee has also emphasized the need for providing subsidiary occupation like dairy farming to the peasants. Further about 35 percent of the nation's food still comes from 67 percent of total arable area of about 143mha. The food production, which depends on erratic monsoon, has become extremely unstable leading to low price and weak marketing value of food grains. Thus agriculture enterprises create problems of

unemployment and under employment, seasonal employment and disguised unemployment to crawl people constituting 70 percent of total population. Young people from rural areas migrate to towns or cities for work as rural economy is in shambles due to the vagaries of climate in India. Dairy enterprise is a solution to overcome such problems and besides being an effective tool to improve socioeconomic conditions of farmers in India.

#### II.LITERATURE REVIEW

Bhow (2006) has concluded that the cost and returns from milk production were estimated separately for local and crossbred cattle. The gross cost of maintenance was workedout as the sum of fixed and variable costs items. The net cost was arrived at by deducing the value of dung from gross cost per milch cattle per day was divided by the average milk yield per day of the respective breed. It was found that net return was calculated by deducting gross cost from gross return.

Sulaiman, E and Vijaya Chandran Pillai (2006) in their article, "An Assessment of Quality of Services of Dairy Cooperatives in Kerala with Special Reference to Tiruvananthapuram District" found that even though the dairy cooperatives are rendering services they are not up to expectations. Majority of the farmers are not satisfied with the various efforts of the societies for improving the efficiency in the marketing of milk produced by the farmers. The farmers are still facing problems in the area related to low procurement price of the milk.

Kannan (2007) in his Ph.D. thesis, "A Study on Performance of Dairy Farming and it's Correlates in Madurai District", he concluded that the increase in level of education, family income and their personality traits has a cumulative impact on the performance of dairying and he

suggested that the level of education among the owners can be enriched with the help of some basic education programmes. The importance of family income should be taught among the owners of the farms.

Rhone. Ward. Vries. & (2007)Koonawootrittriron Elzo conducted a study to compare milk pricing systems and their effect on milk price and milk revenue of dairy farms in the central region of Thailand and by applying fixed linear model, they analyzed milk price of different sizes of farms. (small, medium, and large). Their findings showed that small farms had higher (P<0.05) milk prices than medium and large farms.

Bhagyashree S. Kunte and Prof. Sanjay Patankar (2015) in their research work titled "A Literature review of Indian Dairy Industry", tried to understand the current scenario of dairy industry in India and various issues of the stakeholders of the industry. The research was basedon primary data collected from dairy farmers (members / nonmember of cooperative societies) The major issues identified were lack of fodder and concentrates, scarcity of veterinary and diagnostic services, lack of information and technological awareness.

#### III.RESEARCH METHODOLOGY

# **Socio Economic Profile of the Dairy Farmers in the Dairy Co-operatives**

The socio-economic profile of the dairy farmers is analyzed in terms of the variables such as gender, age, marital status, education, occupation, income, size of the family, capital, resident of the dairy farmers, experience and size of the dairy farms of the respondents in the dairy Cooperatives in the Dharmapuri district. These variables are considered to be important as these contribute substantially to the dairying aspects of the dairy farmers. The respondents for the study are

the dairy farmers who are supplying milk to the milk Co-operatives.

### IV.ANALYSIS AND INTREPRETATION

# Gender wise Distribution of the Dairy Respondents

The dairy activity is important for the economic development of the respondents. The gender lead to more knowledge and efficiency in the economics of dairy activities and it is included as one of the important profile variables of the respondents. The distribution of respondents on the basis of their gender is given in Table 1.

S. No.	Gender	No. of Respondents	Percentage		
1	Male	159	62.11		
2	Female	97	37.89		
	Total	256	100.00		

**Table 1: Gender Wise Classification of the Dairy Respondents** 

Table 1 depicts the gender wise distribution of the dairy farmers (62.11) is male and 37.89 percent of the respondents are female. It is inferred that the proportion

of male dairy farmers is higher than the female dairy farmers. The gender of the dairy respondents has been presented in the Fig 1

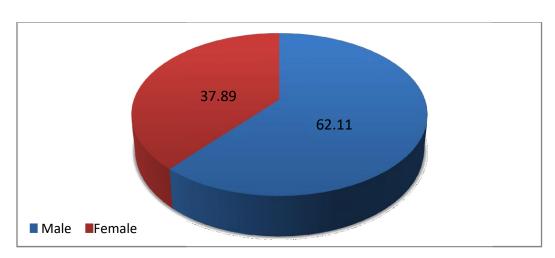


Fig 1: Gender Wise Classification of the Dairy Respondents

# Age wise classification of the Dairy Respondents

The age wise distribution is one of the important demographic variables for distinguishing segment. The dairy respondents from the different age groups are requested to state their level of perception towards economics of dairy cooperatives and an attempt was made to find out the significant between age and economics of dairy co-operatives. The age of the policy holders is grouped into four categories up to 25 years, 26 to 40 years, 41 to 55 years, and above 55 years and are selected for the study. Table 2 gives the age wise distribution of the dairy respondents towards economics of dairy co-operatives.

S. No.	Age	No. of Respondents	Percentage
1	Up to 25 years	37	14.45
2	26 to 40 years	91	35.55
3	41 to 55 years	114	44.53
4	Above 55 years	14	5.47
	Total	256	100.00

**Table 2: Age Wise Classification of the Dairy Respondents** 

Table 2 depicts the age wise distribution of the respondents. Shows that the majority of the dairy farmers (44.53 percent) are in the age group of 41 to 55 years, followed by 35.55 per cent of the dairy respondents are in the age group of 26 to 40 years, 14.45 per cent of the dairy respondents are in the age group of up to 25 years and 5.47 percent of the respondents are in age group of above 55

years. The analysis reveals that the important age group among the respondents belongs to the age category of 41 years to 55 years. However, dairy respondents belonging to age category of above 55 years constitute only 5.47 percent of the total towards the economics of dairy of co-operatives in Dharmapuri district. The age of the dairy respondents are presented in the Fig 2.

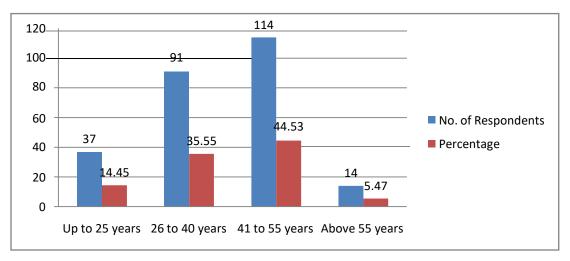


Fig 2: Age Wise Classification of the Respondents

# **Educational Qualification of the dairy respondents**

The level of education among the respondents influences more economic activity and awareness in the dairy farming. The educated people have more awareness of the dairy activities whereas uneducated have less awareness of the dairy activities. The respondents from different educational status are requested to state their level of economics towards the

dairy activities and an attempt was made to find out the significant between education and economy of dairy co- operatives. The educational qualification of the respondents has been confined into up to school level, higher secondary level, graduates and post graduates. The educational qualification of the respondents in economics of dairy co-operatives in Dharmapuri district is distributed in the Table 3.

S. No.	Educational Qualification	No. of Respondents	Percentage
1	Up to School level	41	16.02
2	Higher Secondary	89	34.77
3	Graduate	75	29.30
4	Postgraduate	51	19.92
	Total	256	100.00

**Table 3: Educational Qualification Wise Classification of the Respondents** 

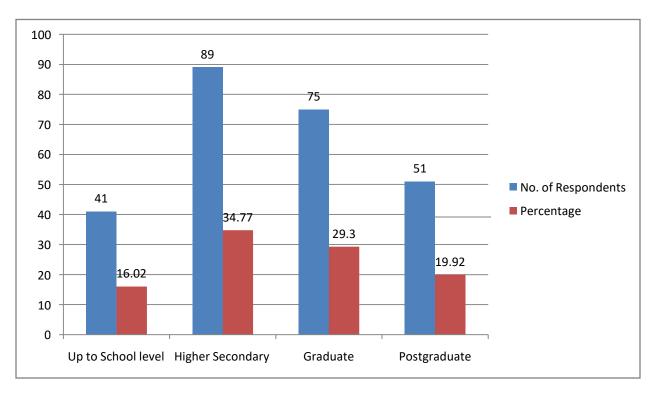


Fig 3: Educational Qualification Wise Classification of the Respondents

Table 3 depicts the education of the respondents. In total 34.77 percent of the respondents are having higher secondary level of education, followed by 29.30 percent of the respondents are having graduate level of education, 19.92 percent of the respondents are having postgraduate of education and 16.02 percent of the respondents are having up to school level of education. It concludes that the majority of the respondents are having higher secondary as their educational qualification towards the respondents in the economics

of dairy co-operatives in Dharmapuri district. The educational qualification of the dairy respondents has been presented in the Fig 3.

### **Occupation of the respondents**

Occupation of the respondents in the present study is classified into agriculture, businessman, employed, house wife and others. The distribution of occupation of the respondents is presented in Table 4

S. No.	Occupation	No. of Respondents	Percentage
1	Agriculture	104	40.63
2	Businessmen	27	10.55
3	Employed	38	14.84
4	House wife and Others	87	33.98
	Total	256	100.00

**Table 4: Occupation Wise Classification of the Respondents** 

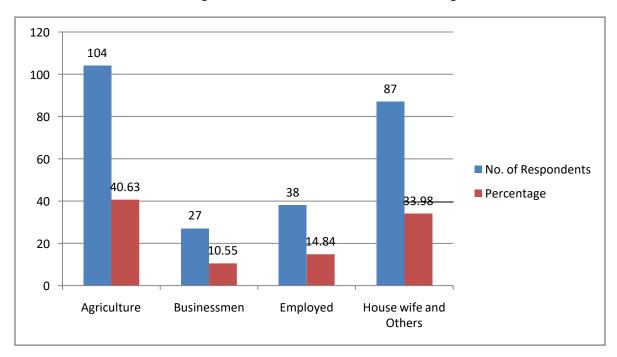


Fig 4: Occupation Wise Classification of the Respondents

Table 4 shows that the 40.63 percent of the respondents are engaged in the agriculture activity, followed by 33.98

percent of the respondents are in the category of house wife and others, 14.84 percent of the respondents are employed, and 10.55 per cent of the respondents are

in the category of businessmen towards the economics of dairy co-operatives in Dharmapuri sector. It is inferred that the most of the dairy farmers are in the

category agriculture sector. The occupation of the respondents has been presented in the Fig 4.

### **Multivariate Tests**

Multivariate Tests <sup>a</sup>									
	Effect	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power <sup>d</sup>
	Pillai's Trace	.921	483.688 <sup>b</sup>	6.000	248.000	0.001	0.921	2902.131	1.000
ept	Wilks' Lambda	.079	483.688 <sup>b</sup>	6.000	248.000	0.001	0.921	2902.131	1.000
Intercept	Hotelling's Trace	11.702	483.688 <sup>b</sup>	6.000	248.000	0.001	0.921	2902.131	1.000
	Roy's Largest Root	11.702	483.688 <sup>b</sup>	6.000	248.000	0.001	0.921	2902.131	1.000
	Pillai's Trace	.123	2.708	12.000	498.000	0.001	0.061	32.496	.984
uc	Wilks' Lambda	.880	2.719 <sup>b</sup>	12.000	496.000	0.001	0.062	32.623	.984
location	Hotelling's Trace	.133	2.729	12.000	494.000	0.001	0.062	32.748	.985
	Roy's Largest Root	.100	4.131°	6.000	249.000	0.001	0.091	24.788	.976

a. Design: Intercept + location

b. Exact statistic

c. The statistic is an upper bound on F that yields a lower bound on the significance level.

d. Computed using alpha = .05

Source		Type III Sum of	df	Mean Square	F	oio.	Partial Eta Squared	cent. neter	)bserved Power <sup>g</sup>
	Source	Squares	p	Me		Sig.	Partial Et Squared	Noncent. Parameter	Observed Power <sup>g</sup>
1	Lack of capital	0.782a	2	0.391	0.228	0.796	0.002	0.457	0.086
ode	Non availability of credit	3.219 <sup>b</sup>	2	1.610	0.894	0.410	0.007	1.788	0.203
Corrected Model	Money lenders and private finance	4.694 <sup>c</sup>	2	2.347	2.195	0.113	0.017	4.391	0.446
rect	High investment	4.913 <sup>d</sup>	2	2.457	1.782	0.170	0.014	3.563	0.371
ori	Poor financial support	5.308e	2	2.654	2.260	0.106	0.018	4.520	0.457
	Assistance from government	11.868 <sup>f</sup>	2	5.934	3.773		0.029	7.546	0.685
	Lack of capital	1559.600	1	1559.600	911.146	0.000	0.783	911.146	1.000
	Non availability of credit	688.804	1	688.804	382.467	0.000	0.602	382.467	1.000
Intercept	Money lenders and private finance	413.900	1	413.900	387.138	0.000	0.605	387.138	1.000
Inte	High investment	1036.856	1	1036.856	751.939	0.000	0.748	751.939	1.000
	Poor financial support	691.638	1	691.638	588.863	0.000	0.699	588.863	1.000
	Assistance from government	1741.421	1	1741.421	1107.311	0.000	0.814	1107.311	1.000
	Lack of capital	.782	2	0.391	0.228	0.796	0.002	0.457	0.086
	Non availability of credit	3.219	2	1.610	0.894	0.410	0.007	1.788	0.203
Location	Money lenders and private finance	4.694	2	2.347	2.195	0.113	0.017	4.391	0.446
Lo	High investment	4.913	2	2.457	1.782	0.170	0.014	3.563	0.371
	Poor financial support	5.308	2	2.654	2.260	0.106	0.018	4.520	0.457
	Assistance from government	11.868	2	5.934	3.773	0.024	0.029	7.546	0.685
	Lack of capital	433.058	253	1.712					
	Non availability of credit	455.640	253	1.801					
Error	Money lenders and private finance	270.489	253	1.069					
Щ	High investment	348.864	253	1.379					
	Poor financial support	297.156	253	1.175					
	Assistance from government	397.882	253	1.573					
	Lack of capital	3223.000	256						
	Non availability of credit	1728.000	256						
otal	Money lenders and private finance	1091.000	256						
T	High investment	2407.000	256						
	Poor financial support	1585.000	256						
	Assistance from government	3272.000	256						
1	Lack of capital	433.840	255						
ota	Non availability of credit	458.859	255						
Corrected Total	Money lenders and private finance	275.184	255						
rec	High investment	353.777	255						
Cor	Poor financial support	302.465	255						
Ľ	Assistance from government	409.750	255						
	Assistance from government	409.750	233			<u> </u>			

a. R Squared = .018 (Adjusted R Squared = .011), b. R Squared = .015 (Adjusted R Squared = .007)

c. R Squared = .009 (Adjusted R Squared = .001), d. R Squared = .021 (Adjusted R Squared = .014)

e. R Squared = .042 (Adjusted R Squared = .034), f. R Squared = .039 (Adjusted R Squared = .032) and

g. Computed using alpha = .05

The descriptive statistics, estimated marginal mean and MANOVA Tables 4.58, 4.59 4.60, and 4.61, indicates that the mean scores of six variables of financial problems in the dairy farms are to be taken together to vary over the problems in the area location of the dairy farms. The problems of lack of capital (3.440), nonavailability of credit (2.400), assistance from the government (3.920) are high in the urban area than the semi urban and rural areas. The money lenders and private finance (1.860), high investments (2.922) are the highest problems in therural areas whereas poor financial support (3.505) are the highest problems in the semi urban areas.

The statistical significance of the variation of the mean confirms this moreover, the MANOVA characterized by powerful Pillai's Trace test is significant at five per cent level (F 2.708 with p=0.005<005). Similarly, the Wilks' Lambda

(F 2.719 with p=0.005<005), Hotelling's Trace (F 2.729 with p=0.005<005), and Roy's Largest Root (F4.131 with p=0.005<005) test is significant at five percent level

However, the six variables for the three geographic location of rural, semi urban and urban are taken independently, five variables in the problems of finance in the dairy farms variation is not found statistically significant in the test of between-subjects effects (p>0.05).

It is concluded that, the area wise problems of the financing of the dairy farmers are taken independently, the problems of money lenders and private finance and high investment are the problems of the rural areas. The problem of lack of capital and poor financial support are the highest problems in the urban areas where as poor financial support is the highest problems inthe semi urban area dairy farms.

,	Des	criptive Statisti	cs	
Locat	ion	N	Mean	Std. Deviation
	Rural	179	3.341	1.636
Poor family	Semi urban	52	3.942	1.406
support	Urban	25	4.240	0.879
	Total	256	3.551	1.563
	Rural	179	2.782	1.474
Lack of children	Semi urban	52	2.885	1.517
care	Urban	25	2.960	1.744
	Total	256	2.820	1.505
	Rural	179	2.832	1.202
Lack of	Semi urban	52	2.962	1.236
recognition	Urban	25	3.640	1.114
	Total	256	2.938	1.219
	Rural	179	2.385	1.337
Lack of social	Semi urban	52	2.269	1.190

contacts	Urban	25	2.480	1.229
	Total	256	2.371	1.295
	Rural	179	3.464	1.544
Non-cooperation	Semi urban	52	3.596	1.459
of others	Urban	25	3.560	1.474
	Total	256	3.500	1.516

# **Social Problems of the Dairy Farms and Location**

Multivariate Tests <sup>a</sup>									
	Effect	Value	F	Hypothesis df	Error df	Sig.	Partial Eta Squared	Noncent. Parameter	Observed Power <sup>d</sup>
	Pillai's Trace	0.898	440.333 <sup>b</sup>	5.000	249.000	0.001	0.898	2201.663	1.000
pt	Wilks' Lambda	0.102	440.333 <sup>b</sup>	5.000	249.000	0.001	0.898	2201.663	1.000
Intercept	Hotelling's Trace	8.842	440.333 <sup>b</sup>	5.000	249.000	0.001	0.898	2201.663	1.000
	Roy's Largest Root	8.842	440.333 <sup>b</sup>	5.000	249.000	0.001	0.898	2201.663	1.000
	Pillai's Trace	0.080	2.097	10.000	500.000	0.023	0.040	20.969	0.901
uo	Wilks' Lambda	0.920	2.107 <sup>b</sup>	10.000	498.000	0.023	0.041	21.066	0.903
Location	Hotelling's Trace	0.085	2.116	10.000	496.000	0.022	0.041	21.162	0.904
	Roy's Largest Root	0.070	3.511°	5.000	250.000	0.004	0.066	17.556	0.913

a. Design: Intercept + location

b. Exact statistic

c. The statistic is an upper bound on F that yields a lower bound on the significance level.

d. Computed using alpha = .05

## **Reliability Analysis**

Cranach's alpha is the most common measure of internal consistency ("reliability"). It is most commonly used when the research has multiple Likerts' questions in a survey/ interview schedule that forms a scale and useful to determine if the scale is reliable. In order to understand whether the questions in this interview schedule are reliably measure the same latent variable. Following is the

formula for Cronbach's alpha to check the reliability of questionnaires:  $\alpha = (n / (n-1))_T \times (1 - (\Sigma s_i^2 / s^2))$ 

Where n is the number of items,  $S_i^2$  is the variance of the i<sup>th</sup> item, and  $S_T^2$  is the total scorevariance (Cronbach, 1951). In order to run a Cronbach's alpha test, the important table is the Reliability test that provides theactual value for Cronbach's alpha, as shown below Table 5.

### **Reliability Analysis**

Variables	No. of Items	Cronbach's Alpha	Variances
How do you evaluate your dairy activity today	4	0.667	10.709
Please specify the dairy farm is to increase the Economic condition of your family	6	0.639	25.418
Infrastructural constraints	6	0.622	13.509
Infrastructural constraints	5	0.623	17.481
Economic constraints	7	0.635	23.101
Financial problems	10	0.732	59.623
Social problems	9	0.965	117.471
Price and Selling Problems	5	0.659	13.245
Maintenance problems	10	0.903	63.190

The above table shows that the Cronbach's alpha value, which indicates the maximum level of internal consistency for the scale with this specific sample namely factors for the growth of retail industry, Problems faced by the Customers phone towards mobile services. Communication Problems, Communication Problems Price/Tariff Problems. in Structure, Problems in Customer Care, Problems Faced in Value Added Service Problems and Level of Frustration with Call Center Personnel.

### V.CONCLUSION

There is significant difference in yield of milk from three different types of milch animals i.e. cow, buffalo and

crossbred cow was inferred through Chisquare test, multivariate test and reliability reveals. Cobb-Douglas production function reveals that six variables – labour cost per animal per day, value of green fodder, value of dry fodder, value of concentrates fed, period and miscellaneous expenditure significantly influence the milk yield. Of the six variables, greatest influence is made by value of green fodder followed by length of lactation period. The cost-return analysis of milk per liter reveals that the return given by crossbred milch animal is the highest followed by thereturn given by the buffalo.

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