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**Research Article** 

# Decision making of rural women in dairy farming -a study in amritsar district of punjab

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The present study examines the role of rural women in dairy farming, a study in Amritsar district of Punjab. The study was based on the primary data collected for 2019-20 year from female dairy farmers selected through multistage purposive sampling technique. The requisite primary data was collected to accomplish the objectives of the study. The data was analysed by using simple tabular analysis and other statistical tools. All the activities related to dairy farming was performed by female dairy farmers. Small size female dairy farmers performed all the activities related to dairy farming ranging from disposal of cow dung to care of sick and new born animals. Large size female dairy farmers hired labour for dairy activities due to higher income of the households and large number of animals. The role of rural women in decision making is paradoxical to their contribution in dairy farming. For various dairy related decision like feeding of milch animals, management of milch animals, sale of milk and utilization of amount obtained from dairy farming rural women either only consulted and no role in decision making. Independent decision making by rural women dairy related activities was negligible. The major factors affecting the income of female dairy farmers was educate, operated area and herd size. The main problem faced by female dairy farmers were that they were unable to took independent decision related to dairy activities. Non availability of adequate veterinary services, illiteracy of dairy farm, lack of staff at government hospitals, lack of capital. The study suggested that to increase the income of rural women from dairy. Rural women should be more educated and empowered the regarding extension facilities by government. Due to stagnate in growth of agriculture dairy can be use as an alternate for marginal and small farmers. Marginal and small female dairy farmers should be give more subsidies, loan and training for dairy business. Strict rules should be made regarding working of veterinary hospitals as the doctors were not available in to government veterinary hospitals.

Keywords: Rural, women, dairy farming, decision, independent

## **INTRODUCTION**

Women play an important role in animal husbandry activities as manager, decision makers and skilled workers.

They help in farm operations, taking them for grazing, look after the sale of milk, and in addition, perform the function related to house management. Rural women contribute a share of more than 75 per cent in animal husbandry operations like feeding, milking and sale of milk. Many of the important tasks in animal husbandry activities are performed by women besides fulfilling their responsibilities as home makers. Rural women

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remain busy from dawn to dusk in various agriculture activities and livestock management. Women's active involvement in decision making is considered essential for rapid economic development of the country. Dairy cooperatives have been creating more employment and income generating opportunities to rural women. So, women participation in business activities and day affair of dairy cooperative is an essential and need for their overall progress out of total milk union functioning in Punjab.

Dairy farming of the important enterprise which dominate the economic activities of the women in the rural area of India. Increasing demand for milk and milk products in recent years intensifies dairy farming as profitable enterprise for rural women. The women entrepreneurs have been confronting to several constraint in the sector which hinder their way poor development. The major constraints faced by women dairy entrepreneur were high cost of concentrate, lack of availability of veterinary literature in the villages, non remunerative price of milk. Dairy in India plays a crucial role in the rural economy that has the highest potential of generating income and employment through augmenting productivity of milch animals. Planners and policy makers have viewed it as an effective instrument of social and economic change.

Dairy farming has a significant contribution to agriculture GDP. Dairy farming is common practiced by the small and marginal farmers because these farmers have very small area of land to fulfill their needs, so they domesticate animals. Although dairy farming is not specialized commercial activity but it provides regular income to farmers throughout the year and has a significant role in generating employment for women. Animal husbandry and dairy is an important source of income and employment for millions of landless and play an important role in the socio-economic development in rural area.

Much research work has not been done in Punjab on role of rural women in dairy enterprise. So present study was conducted in Amritsar district of Punjab with following objectives in view; to determine the participation level of rural women in dairy activities in the selected area, to find out the factors affecting the income rural female farmers from dairy and to find out the problem faced by rural women and suggest measure thereof.

# METHODOLOGY

The study was conducted in Amritsar district of Punjab in 2019- 2020 year. The three stage random sampling

technique was followed to select sample of development blocks at first stage, villages at second stage and the ultimate grower as the final stage of sampling [1]. At first stage of sampling blocksnamely, Ajnala and Majitha were selected randomly. At second stage two village namely Bhoeywali and Jethuwal were selected Ajnala and Majitha blocks. A complete list of all the households adopting dairy business in each selected villages was prepared along with the dairy units. The households were arranged in ascending order of dairy units. Only those dairy households were selected who take dairy as business. Three categories were made from list of dairy farming households. In each category sample was selected according to probability probation to size method. At final stage of sampling 40 small dairyfarmers, 40 medium dairy farmers and 40 large dairy farmers were selected. and Japanese Bobtai [2].

**Table 1.** Categorization of dairy units in thebasis of milch animals in the study area.

Category	No of milch animals		
Small	3-Feb		
Medium	7-Apr		
Large	7 and above		

Primary data was collected from female member of selected rural households to find out their role in decision making in dairy farming and their actual physical involvement in dairy business. To find out the role of women in decision making and their actual participation in dairy activities sample averages, percentages and ratios were worked out. For achieving second objective i.e. factors affecting the income rural female farmers from daiy, step wise multiple regression was used [3].

## **RESULTS AND DISCUSSION**

S. No	Activities	Small N=40	Medium N=40	Large N=40	Overall N=120
1	Taking animals for grazing	12 (30)	6 (15)	2 (5)	18 (15)
2	Fodder collection	14 (35)	6 (15)	NIL	20 (16.7)
3	Chaffing fodder	15 (37.5)	8 (20)	NIL	23 (19.1)
4	Soaking of concentrates	20 (50)	10 (25)	NIL	30 (25)
5	Mixing green fodder with roughage	23 (57.5)	11 (27.5)	NIL	34 (28.3)
6	Feeding the animals	25 (62.5)	12 (30)	NIL	37 (30.8)
7	Harvesting the fodder crops	5 (12.5)	2 (5)	NIL	7 (5.8)
8	Storage of feed and fodder	15 (37.5)	7 (17.5)	NIL	22 (18.3)
9	Watering the animals	25 (62.5)	16 (40)	2 (5)	43 (35.8)

**Table 2.** Contribution of female dairy farmers on the basis of actual physical participation in dairy farming.

10	Carrying the harvested fodder	20 (50)	5 (12.5)	NIL	25(20.8)
11	Cleaning of animals shed	35 (87.5)	29 (72.5)	6 (15)	70 (58.3)
12	Washing and grooming of animals	35 (87.5)	30 (75)	NIL	67 (55.8)
13	Disposal of cow dung	40 (100)	26 (65)	NIL	66 (55)
14	Milking	40 (100)	35 (87.5)	25 (62.5)	100 (83.3)
15	Care of sick animals	35 (87.5)	30 (75)	6 (15)	71 (59.1)
16	Care of new born	33 (82.5)	12 (300	5 (12.5)	50 (41.6)
17	Care of pregnant animals	30 (75)	16 (40)	5 (12.5)	51 (42.5)
18	Taking animals for treatment	28 (70)	10 (25)	3(7.5)	48 (40)
19	Processing of milk into milk products	40 (100)	40(100)	40(100)	120 (100)
20	Making cow dung cakes	40 (100)	30 (75)	5 (12.5)	75 (62.5)

It was found that as the size of dairy units increased the physical participation done by female dairy farmers decreased. It was due to the fact the large female dairy farmers units had kept hired labour for dairy related activities in the study area. Small female dairy farmers performed all the dairy related activities themselves. The major activities performed by small female dairy farmers were disposal of cow dung(100 percent), milking(100 percent), care of sick animals(88 percent), care of new born (83 percent), care of pregnant animals (75 percent), processing of milk into milk products (100 percent), cleaning of animals sheds (88 percent), feeding the animals (63 percent). Among medium dairy units the major activities performed by female dairy farmers were processing of milk into milk products (87.5 percent), care of sick animals (75 percent), milking of animals (87.5 percent), making cow dung cakes (75 percent), disposal of cow dung (65 percent). Large female dairy farmers hired labour for dairy activities of milch animals the physical involvement of female dairy farmers were negligible as compared to small and medium dairy farmers [4].

Decision making of the female dairy farmers in various aspects of dairy farming included general aspects of dairy farming, feeding of milch animals, breeding of milch animals, management of milch animals, sale of milk, preparation of milk products and utilization of amount obtained from dairy farming. Decision making of farm women in general aspects of dairy farming involved choosing of animals, taking loan, purchase and sale of animals. Overall 8.6 percent female dairy farmers took self-decision, 48.0 percent were consulted in decision making, 43.3 percent had no role in decision regarding choosing of animals ,taking loan etc..Decision regarding feeding of milch animals included cultivation of green fodder crops, green fodders to be fed or not, quantity of green fodders to be fed or not, silage or hay making, purchase of roughages, preparing concentrate mixture at home, purchase of concentrate mixture, minerals mixture are to be fed or not, frequency of feeding minerals, colostrum to be fed to the new born calf or not. In this aspect of decision making female dairy farmers had little say in decision making. Similarly in breeding decision of milch animals female had negligible say in decision making as only 10 percent took self decision in breeding of milch animals. Decisions regarding breeding of milch animals included decision regarding breeding choice method to be used, adoption of artificial insemination, pregnancy diagnosis, calling veterinary doctors during reproductive disorders. The status of female dairy farmers in decision making in management of mlich animals were same as in other aspects of dairy farming . For management decisions like weaving of calves , animals are to be kept open in shed or not, shed to be disinfected or not, number of dairy animals to be kept only 9.5 percent femal dairy farmers took self decision. For preparation of milk products the rural female farmers took independent decision. For utilization of amount obtained from dairy farming small size female dairy farmer had much say in decision making than medium size and large size female dairy farmer. Above table clearly reveals that though female dairy farmer performed all the dairy activities but their independent decision making in dairy farming is negligible [5]

animals, sale of milk and utilization of amount obtained from dairy farming rural women either only consulted and no role in decision making. Independent decision making by rural women dairy related activities was negligible.

Step wise multiple regression analysis was used to find out the factor affecting the income of female dairy farmers from dairy farming.. Three important determinants of income came out to be significant i.e education, operated area and herd size (Table 4).With one more addition of education level of female dairy farmer the expected income will increase by Rs 6543.65 on the condition that rest of variables are held at same level. Operational land also affected the annual dairy income as with increases in one unit of land the expected income will increase by Rs 12612.41 on the condition that rest of variable are held at same level. Per herd size had negative effect on income of dairy farmers. With one unit increase in herd size the expected income decreased by Rs 9549.92. This might due to reason that with increase in herd size the efficiency of dairy unit decreases. The computed value of R2 (i.e., the coefficient of multiple determination) was 0.5334, which implied that 53.34 percent of the total variation in the dependent variable (i.e., dairy income per herd) was occurring because of these four variables. This value of R2 was tested (through F-test) to be statistically highly significant (at 0.1% probability level).

The major constraints faced by small female dairy farmers were no provision for testing of animals (90 percent), lack of staff at Government hospitals (93 percent), non-availability and high cost of medicines (90 percent), no role in utilization of income from dairy by female dairy farmers (90 percent), lack of capital (88 percent) (Table4). Among medium female dairy farmers major constraints were lack of staff at Government hospital (75 percent). Similarly among large female dairy farmers major constraints were lack of staff at Government hospitals (63 percent).

Overall the major problems faced by all female dairy farmers were lack of staff at Government hospitals (76.6 percent), no role in utilization of income from dairy by female dairy farmers (71.6 percent), no provision for testing of animals (60.8 percent), shortages of feed and fodder (58.3 percent).

## CONCLUSION

All the activities related to dairy farming was performed by female dairy farmers. Small size female dairy farmers performed all the activities related to dairy farming ranging from disposal of cow dung to care of sick and new born animals. Large size female dairy farmers hired labour for dairy activities due to higher income of the households and large number of animals. The role of rural women in decision making is paradoxical to their contribution in dairy farming. For various dairy related decision like feeding of milch animals, management of milch.

The major factors affecting the income of female dairy farmers was educate, operated area and herd size. The The main problem faced by female dairy farmers were that they were unable to took independent decision related to dairy activities. Non availability of adequate veterinary services, illiteracy of dairy farm, lack of staff at government hospitals, lack of capital. The study suggested that to increase the income of rural women from dairy. Rural women should be more educated and empowered the regarding extension facilities by government. Due to stagnate in growth of agriculture dairy can be use as an alternate for marginal and small farmers. Marginal and small female dairy farmers should be give more subsidies, loan and training for dairy business. Strict rules should be made regarding working of veterinary hospitals as the doctors were not available in to government veterinary hospitals.

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