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Socio- economic Profile of Women Dairy Farmers in Guntur District of Andhrapradesh

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Authors contribution

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

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ABSTRACT

An investigation was carried out to study the socio-economic profile of 225 women dairy farmers to understand their social participation, extension contact, training and mass media exposure regarding dairying activities in Guntur district of Andhra Pradesh. The study revealed that majority (P≤0.01) of farm women belonged to middle age group (70.20%), backward Caste (38.20%) and had primary education (38.67%). Most of them were married (93.80%), belonged to nuclear families (76.40%) and had small family size (76.90%). Labour work and dairying was the major occupation (38.20%) of women in the study area. Most of the women had medium level of experience in dairying (51.60%) and were members in DWCRA/SHG (93.80%). Significant (P≤0.01) majority of women dairy farmers were frequently in contact with para veterinarian (62.70%) and veterinarian (46.20%). Women in Pedaravuru division had frequent exposure to television (37.30%) and occasional exposure to newspaper (29.30%). Women dairy farmers in Pedaravuru division obtained more income (rupees/day) through dairying (888.00±58.43).

Keywords: Dairy farming; Socio- economic profile; Women dairy farmers; Guntur district.

1. INTRODUCTION

As an agricultural based country, India's livestock sector has become the backbone of nation's development in terms of economy. 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 [1]. Farming in India is primarily family based and farm women are the back bone of dairy farming. In the current context, the contribution of women to national development, as well as their potential is of greater importance. Women play significant and crucial role in agricultural development and allied fields like dairy farming, Vermicomposting etc [2]. The socio-economic status and participation of women in dairying activities in different parts of the country were documented by various researchers [3-7]. Yet the crucial role of women in agriculture, allied occupations and household activities, on the other hand has been grossly underestimated and undervalued. Given the importance of women in dairying and allied activities, an investigation was conducted to study the socio economic profile of women dairy farmers to analyze and document their social participation, extension contact, training and mass media exposure regarding dairying activities in Guntur district of Andhra Pradesh [8,9].

2. MATERIALS AND METHODS

The study was carried out in three animal husbandry divisions namely Pedaravuru, Guntur, Narasaraopeta. Five mandals were selected from each animal husbandry division and 5 villages from each mandal were selected randomly so that a representative sample covering most of the villages of the district can be achieved. Three women dairy farmers were selected randomly from each village resulting in 225 respondents. The data were subjected to frequency, percentage and chi-square test using statistical package for social science (IBM SPSS 25.0 Version).

3. RESULTS AND DISCUSSION

3.1 Age of Women Dairy Farmers

Majority (P≤0.05) of farm women (70.20%) belonged to middle age group whereas 16.00% of old age group and 13.80% of young age

group (Table 1 & Fig. 1). This might be because farm women in their middle years were deemed to be actively working and responsible for supporting their families through the cash earned from dairying operations. These were similar to the findings of Gulkari et al. [10], Kaur et al. [4], Yadav et al. [5] and Bhunyan et al. [11] who reported that more number of farm women belonged to middle age group in Anand district of Gujarat, Gurdaspur, Amritsar, Taran-Taran and Ferozepur districts of Punjab, Tumakuru district of Karnataka and Karnal district of Haryana, respectively.

3.2 Social Status of Women Dairy Farmers

Majority (38.20%) of women farmers in the study area belonged to BC, followed by SC (32.00%) and OC (29.80%). The study proportion of social rank may not accurately reflect the whole situation (Table 2 & Fig. 2). The results were similar to the findings of Manju and Yadav [12] and Patel et al. [13] who reported that majority of farm women belonged to other backward caste (OBC) in Bhilwara district of Rajasthan and Junagadh district of Gujarat, respectively whereas Gupta et al. [7] reported that equal majority of respondents belonged to general and OBC in Surguja district of Chhattisgarh.

3.3 Educational Status, Marital Status, Family Type, Family Size and Occupation of Women Dairy Farmers

Majority (38.67%) of farm women were having followed by illiterate education, (35.11%), secondary education (18.22%) and higher education (8.00%) in the study area (Table 3). This could be related to the fact that women were responsible for their homes and have traditionally been discouraged by their parents from pursuing higher education. These are similar with findings of Lahoti et al. [14] and Divya Rajpurohit et al. [15] who reported that majority of farm women were having primary education in Maharashtra and Rajasthan, respectively whereas Rathod et al. [16]. Lugman et al. [17] and Kaur et al. [4] reported that majority of respondents were illiterate. It was revealed that majority (93.80%) of farm women were married in the study area. These were similar with the findings of Arshad et al. [18], Rathod et al. [16], Kathiriya et al. [2], Kaur et al.

[19], Aparna Radhakrishnan et al. (2016) and Yadav et al. [5] who reported that most of farm women were married in Jhung district of Punjab, Bagalkot district of Karnataka, Rajkot district of Gujarat, Hoshiarpur district of Punjab, Shimoga district of Karnataka and Tumakuru district of Karnataka, respectively. It was reported that significant (P≤0.05) majority of the dairy farm women (76.40%) belonged to nuclear family. The desire of younger generation for economic independence and to provide extra care and attention to their children may be the cause for the dominance of nuclear households. These were similar with the findings of Khan et al. [20], Devaki et al. [3], Pal and Halder [21], Yadav et

al. [5], Bhunyan et al. [11] and Gupta et al. [7] who reported that majority of farm women belonged to nuclear family. It was observed that significant (P≤0.05) majority of farm women (76.90%) were from small families and 23.10% are from big families. These were similar with the findings of Upadhyay and Desai [22], Khan et al. [20], Singotiya et al. [23], Aparna Radhakrishnan et al. (2016) and Yadav et al. [5] who reported that majority of the farm women were from families having more than 5 members. The study revealed that significant (P≤0.01) majority of the women (38.20%) were having labour work + dairying as their occupation, followed by

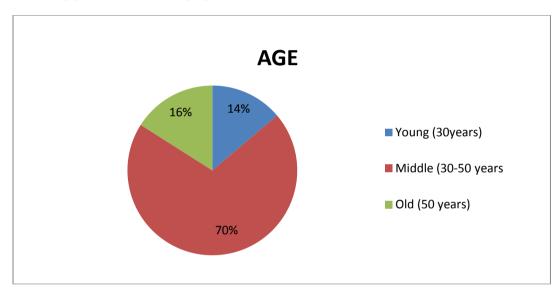


Fig. 1. Age of women dairy farmers in the study area

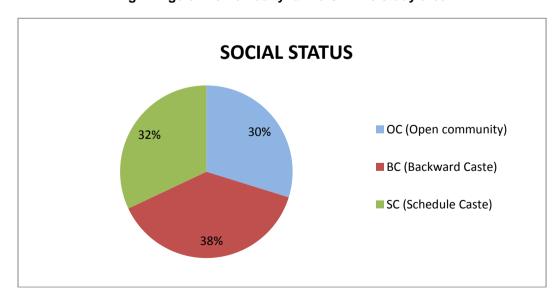


Fig. 2. Social status of women dairy farmers in the study area

Table 1. Age of women dairy farmers in Guntur district

S.No.	Category	Pedaravuru(N= 75)		Guntur(N= 75)		Narasaraopeta(N= 75)		Overall (N= 225)	
		N	%	N	%	N	%	N	%
1	Young (30 years)	17	22.70	6	8.00	8	10.70	31	13.80
2	Middle (30-50 years)	46	61.30	53	70.70	59	78.70	158	70.20
3	Old (50 years)	12	16.0	16	21.3	8	10.70	36	16.00
	x 2value	10.919*							

N= No. of women dairy farmers; *Significant at (P≤0.05)

Table 2. Social status of women dairy farmers in Guntur district

S.No.	Category	Pedaravuru(N= 75)		Guntur(N= 75)		Narasaraopeta(N= 75)		Overall (N= 225)	
		N	%	N	%	N	%	N	%
1	OC (Open community)	19	28.40	23	34.30	25	37.30	67	29.80
2	BC (BackwardCaste)	36	41.90	27	31.40	23	26.70	86	38.20
3	SC (Schedule Caste)	20	27.80	25	34.70	27	37.50	72	32.00

N= No. of women dairy farmers

Table 3. Educational status, Marital status, Family type, Family size and Occupation of women dairy farmers in Guntur district

S.No	Category	Pedaravuru Guntur (N=75) % (N=75)%		Narasaraopeta (N=75) %	Overall (N=225) %	χ2 value
		Educational			, ,	
1	Illiterate	32.00	32.00	41.34	35.11	8.332
2	Primary education (up to 6 th standard)	40.00	42.70	33.33	38.67	
3	Secondary education (6 th – 10 th standard)	17.30	20.00	17.33	18.22	
4	Higher secondary education (11 th – 12 th standard)	10.70	5.30	8.00	8.00	
	·	Marital Sta	atus			
1	Married	93.30	94.70	93.30	93.80	0.152
2	Widow	6.70	5.30	6.70	6.20	
		Family ty	ре			
1	Joint family	13.30	28.00	29.30	23.60	
2	Nuclear family	86.70	72.00	70.70	76.40	6.565*
		Family s	ize			
1	Small family (4 members)	86.70	73.30	70.70	76.90	
2	Big family (>4 members)	13.30	26.70	29.30	23.10	6.203*
		Occupati	on			
1	Labour work+ dairying	36.00	25.30	53.30	38.20	50.228**
2	Ag. Farming + dairying+ labour work	44.00	32.00	29.30	35.10	
3	Ag. Farming + dairying	9.30	40.00	10.70	20.00	

Table 4. Experience, Training exposure, social participation, extension contact and mass media exposure of women dairy farmers in Guntur district

S.No	Category		Pedaravuru (N=75) %	Guntur (N=75)%	Narasaraopeta (N=75)%	Overall (N=225) %	χ2 value
Experie	nce of women dairy fa	rmers in dairying	` '	, ,	, ,	, ,	
1	Low level of experien	ce (up to 7 years)	40.00	26.70	26.70	31.10	15.808*
2	Medium level of expe	rience (7-15 years)	33.30	61.30	60.00	51.60	
3	High level of experience (above 15years)		26.70	12.00	13.30	17.30	
Exposu	re of women dairy farn	ners to training					
1	Training programmes	s attended- yes	32.00	16.00	38.70	28.90	9.909**
2	Training programmes	attended- No	68.00	84.00	61.30	71.10	
Social p	participation						
1	Gram panchayat	Member	4.00	6.70	0	3.60	
		No participation	96.00	93.30	100.0	96.40	4.92
2	DWCRA/SHG	Member	97.3	94.70	89.30	93.80	
		No participation	2.70	5.30	10.70	6.20	4.26
3	Co-operative	Member	6.70	9.30	28.00	14.70	
	Society	No Participation	93.30	90.70	72.00	85.30	16.19**
Extensi	on contact	·					
	Veterinary doctor	Frequently	54.70	32.00	52.00	46.20	
1		Occasionally	29.30	57.30	34.70	40.40	13.97**
		Never	16.00	10.70	13.30	13.30	
2	Para veterinarian	Frequently	82.70	64.00	41.30	62.70	
		Occasionally	12.00	29.30	38.70	26.70	29.80**
		Never	5.30	6.70	20.0	10.60	
3	Cooperative society	Frequently	5.30	4.00	13.30	7.60	
	secretary	Occasionally	20.00	1.30	17.30	12.90	20.28**
		Never	74.70	94.70	69.40	79.60	
4	Friends	Frequently	28.00	40.00	20.00	29.30	
		Occasionally	35.40	12.70	51.90	35.10	28.41**
		Never	34.70	46.70	25.30	35.60	
5	Relatives	Frequently	29.30	20.00	14.70	21.30	

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S.No	Category		Pedaravuru	Guntur	Narasaraopeta	Overall	χ2
			(N=75) %	(N=75)%	(N=75)%	(N=225) %	value
		Occasionally	37.30	26.70	25.30	29.80	11.96**
		Never	33.30	53.30	60.00	48.90	
Mass r	nedia exposure						
1	Television	Frequently	37.30	9.30	17.30	21.30	20.485**
		Occasionally	25.30	37.30	25.30	29.30	
		Never	37.30	53.30	57.30	49.30	
2	News paper	Frequently	6.70	0	1.30	2.70	30.202**
		Occasionally	29.30	8.00	5.30	14.20	
		Never	64.00	92.00	93.30	83.10	

N= No. of women dairy farmers * Significant at (P≤0.05) **Significant at (P≤0.01)

agricultural farming+ dairying+ labour work (35.10%), agricultural farming+ dairying (20.00%) as their occupation. Majority of the farm women's primary occupation was labour work + dairying, which necessitated them to pursue any of the secondary occupation in order to improve their financial situation whereas Kathiriya et al. [2], Kaur [19] and Yadav et al. [2] reported that majority of farm women were involved in agriculture.

3.4 Experience, Training Exposure, Social Participation, Extension Contact and Mass Media Exposure of Women Dairy Farmers

Majority (P≤0.05) of farm women were having medium level of experience (51.60%), followed by low level of experience (31.10%) and high level of experience (17.30%) in dairy farming (Table 4). The results were in agreement with the findings of Gulkari et al. [10], Hagone and Basunathe [24] and Prajapati et al. [6] who reported that majority of farm women had medium dairy farming experience of 4.72 to 12.36 years in Rajkot district of Gujarat. It was observed that significant (P≤0.01) majority of the dairy farm women (71.10%) have not attended any training programmes. This indicates that dairy farm women were not trained regarding scientific management practices related to dairying. The study revealed that majority of women have no participation in Gram Panchayat (96.40%) and cooperative society (85.30%) whereas (93.80%) of the farm women were members in DWCRA/SHG groups in the study area. The results were similar with the findings of Raval et al. (2014) who reported that farm women had more participation in DWCRA/SHG compared to Gram Panchayat in Anand district Gujarat. Devaki et al. [3], Radhakrishnan et al. (2016) and Gupta et al. [7] reported medium social participation whereas Singotiya et al. [23] reported that women had low extension contact in Seoni district of Madhya Pradesh. It was reported that significantly (P≤0.01) majority of farm women were frequently in contact with veterinarian (46.20%) and para veterinarian (62.70%) but not in contact with secretary of cooperative society (79.60%). friends (35.60%), relatives (48.90%) and others (93.80%) whereas Raval et al. (2014) reported that majority of farm women are occasional in contact with veterinarians and frequent in contact with friends and relatives. Upadhyay and Desai [22] and Prajapati et al. [6] reported that

majority had medium level of extension contact. It wasrevealed that majority (49.30%) of farm women have no exposure to television, newspaper (83.10%) and farm magazines (83.60%). Illiteracy, low socio economic level and lack of leisure time may have prevented them accessing various forms of media. Similarly Devaki et al. [3] reported that majority of farm women had low level of exposure to mass media in Thiruvallur district of Tamilnadu whereas Upadhyay and Desai [22], Devaki et al. [3] and Divya Rajpurohit et al. [15] reported that majority had medium level of exposure to mass media.

4. CONCLUSION

Women need to be educated in order to increase their social participation and media exposure to learn about dairying and animal husbandry practices. More number of women societies, cooperatives, SHGs and organizations should be formed to enhance women participation and increase their economic contribution to the livestock sector. Women need to improve their participation in economic activities of dairy farm. Provision of loans or credits on subsidy basis to dairy women with membership in DWCRA/ SHG to purchase animals, feed, fodder cultivation and other inputs can improve their participation in economic activities.

CONSENT

As per international standard or university standard, respondents' written consent has been collected and preserved by the author(s).

COMPETING INTERESTS

Authors have declared that they have no known competing financial interests or non-financial interests or personal relationships that could have appeared to influence the work reported in this paper.

COMPETING INTERESTS

Authors have declared that no competing interests exist.

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