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Case study: Relation of herd size to annual income

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Abstract

The present study was conducted on 120 women dairy farmers selected from 8 villages of Mathura district to assess the Relation of Herd Size to Annual Income the data were collected through pre-tested structured interview schedule by holding personal interview with the dairy farmers during 2016-17. The result revealed that 56.67 per cent had large herd size, 23.33 per cent had medium herd size, and 20.00 per cent respondents had small herd size. In case of annual income of the respondents the result reveals that 43.33 per cent respondents had high income levels, 40.00 per cent had medium income and 16.67 per cent of respondents had low income. Similar results were reported by Ali (2011) and Kumar (2003).

Keywords: Herd size, annual income, dairy farmers, respondents, interview schedule

Introduction

Meaning of herd size is that a group of same species domestic animals lived together and feed together, large herd size of milking animals leads to higher milk production of total milk, which in turn leads to high amount of sold milk. Agriculture is considered as a critical sector to the economy as it contributes around 17 per cent to the total GDP provides employment to 58 per cent of the total population of India, if we consider increasing cost of cultivation then we will realize that, total annual income of the farmers is not increasing at that cost. Government had constituted an inter-ministerial committee in April, 2016 to examine issues relating to doubling of farmers income, and recommended strategies to achieve the same.

Methodology

This study was conducted in Mathura district of Uttar Pradesh which is purposively selected for the study. Mathura geography has a major influence on its climate and topography. Mathura lies between the coordinates 27°41' North latitude and 77° 41 ' East longitudes. This city in Uttar Pradesh is located on the beautiful banks of the river Yamuna. Mathura, popularly known as Brajbhoomi, is 145 km south of the capital city, New Delhi. The holy city is just 50 km from Agra, where the beautiful Taj Mahal is located. Total population of Mathura district is 2,541,894 in which 70.32 per cent rural population and 29.68 per cent urban population and constitutes 1.27 percent of total population of Uttar Pradesh Mathura was an economic hub, located at the junction of important caravan routes. Today, it is a fast expanding city with over 2.5 million residents. Mathura has been divided into four tehsils and ten Blocks with Geographical Area of 3340 Sq Km. Mathura had 89 Nyaya Panchayat 479 Gram Panchayats and 736 Revenue villages. The study was conducted during 2016-2017, to know the personal and socio-economic characteristics and extent of adoption of recommended improved dairy management by the practices by the farmers. 8 villages were selected from the district randomly. From each village 15 respondents were selected on random sampling techniques, thus the total sample constituted for the study was 120. The information was gathered from the respondents personally using pre tested structured interview schedule. The gathered information was analyzed by using appropriate statistical tools like frequency, percentage, mean, standard deviation etc.

Herd size

It refers to the total number of cattle, buffaloes own by the respondent at the time of investigation. Herd size of respondents will be classified on the basis of mean and standard deviation.

SL. No.	Category	Number
1.	Small	<8 animals
2.	Medium	8-10 animals
3.	Large	>10 animals

Annual income

It is operationally defined as the income generated from various sources in one year by the respondent family at the time of investigation. Annual income of respondents was categorized on the basis of mean and standard deviation.

SL. No.	Category	In Rupees
1.	Low	< 2 lakhs
2.	Medium	2-3 lakhs
3.	High	>3 lakhs

Results and Discussion

It was revealed from Table 1 That 56.67 percent of the respondents were having large herd size and possess more than 10 animals. Murrah breed of buffalo and graded Murrah were the first choice of the respondents because it is best suitable to climatic conditions. Among cattle breeds Sahiwal and Jersey were also preferred by the respondents because of their high yielding potential.

Table 1: Distribution of respondents according to their Herd Size (n= 120)

SL. No.	Variable	Category	Frequency	Percentage
7.	Herd size Mean: 10.66 SD: 0.191	Small (< 8 animals)	24	20.00
		Medium (8-10 animal)	28	23.33
		Large (>10 animals)	68	56.67

Annual income

The mean annual income Table 2 the respondents was 3.25 lakh. The data state that 43.33 per cent of respondents were in high income levels, 40.00 per cent were in medium income and only 16.67 per cent of respondents were in low income respectively.

Table 2: Distribution of respondents according to their Annual Income (n= 120)

Sl. No.	Variables	Category	Frequency	Percentage
6.	Annual income Mean:3.25 lakhs SD: 0.091	Low (< 2.00 lakhs)	20	16.67
		Medium (2- 3 lakhs)	48	40.00
		High (> 3 lakhs)	52	43.33

Conclusion

The average herd size among the respondents of the study area was 8-10 dairy animals per household. Milch breed like cross breed murrah and among cattle sahiwal and jersey were maximum reared by the livestock owners which is quite encouraging especially under the condition where large majority are medium and small farmers. A clear interpretation of this results provide empirical support to the observations made by Ghosh *et al* (2001) [6], and Sah (2005) [7] who reported majority of the respondents possessing medium herd size in their respective studies. In contrast, Kannan (2002) [8] found that majority of the respondents had

herd size of 16-12 dairy animals. This describes that Indian dairy entrepreneurs especially under rural settings are still living under vulnerable condition. The good income level of respondents in the study area might be due to the scientific dairy farming, adequate input facilities, efficient marketing channel and enterprising skill prevalent. Similar results were reported by Ali (2011) [9] and Kumar (2003) [10].

References

1. Trivedi G. Measurement and analysis of socio-economic status of rural families. Ph.D. Thesis, IARI, New Delhi; c1963.
2. Satish M, Sadashive, Santosh S, Pathade Manish N, Sawant N Ramesh, Pordhiya KI. Entrepreneurial Behaviour of Dairy Farmers: A Study in Marathwada Region of Maharashtra, Int. J Curr. Microbiol. App. Sci. 2017;6(7):97-101.
3. Santhil. Entrepreneurial Behaviour Of Dairy Farmers Of Tamil Nadu, PhD Thesis Submitted to The National Dairy Research Institute, Karnal; c2008.
4. Raut AA, Sankhala G. Entrepreneurship among commercial dairy farmers in Maharastra. Indian J. Dairy sci. 2014;67(6).
5. Rathod PK, Nikam TR, Sariput L, Vajreshwari S, Hatey A. Participation of Rural Women in Dairy Farming in Karnataka; c2011.
6. Ghosh D. Efficiency considerations in the additive hazards model with current status data. Statistica Neerlandica. 2001 Nov;55(3):367-76.
7. Sah M, Konstantin YD. Forecasting enrollment model based on first-order fuzzy time series. In World Academy of Science, Engineering and Technology. 2005 Jan 1;1:375-8.
8. Kannan K, Choi JW, Iseki N, Senthilkumar K, Kim DH, Masunaga S, *et al*. Concentrations of perfluorinated acids in livers of birds from Japan and Korea. Chemosphere. 2002 Oct 1;49(3):225-31.
9. Ali K, Akhtar MF, Ahmed HZ. Bank-specific and macroeconomic indicators of profitability-empirical evidence from the commercial banks of Pakistan. International Journal of Business and Social Science. 2011 Apr;2(6):235-42.
10. Kumar K. The making of English national identity. Cambridge University Press; c2003 Mar 13.