

## Effect of socio-economic characteristics of woman on buffalo milk production and profitability of buffalo dairy in women's SHG

B.R. PAWAR, S.S. BANKAR AND A.D. KAKADE

### ABSTRACT

In rural areas, woman are running buffalo dairy in SHG. Thus, five buffalo dairy SHGs which were having 10 women as members were selected. Data were collected from 50 women members for the year 2009-10. The results revealed that the coefficient of multiple determination was 0.715 which indicated 71.50 per cent of variation in buffalo milk production due to variation in independent variables together. Investment on equipment, shed and buffalo showed positive effect on buffalo milk production per annum. It inferred that there was scope to increase these variables in buffalo dairy. Similarly, land holding also showed positive effect on buffalo milk production. Age of woman, occupation level and social category showed negative effect on buffalo milk production. In buffalo dairy enterprise, total cost was Rs. 29055.84 and gross return was Rs. 45280.02. Thus, net profit was Rs. 16224.18 per buffalo per annum in women's SHG. Output-input ratio was 1.56.

**KEY WORDS :** Buffalo milk, Dairy enterprise, Profitability, Socio-economic woman

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### INTRODUCTION

India has achieved self-sufficiency in food production and now launching towards self-sufficiency in white revolution *i.e.* milk production. According to India's National Dairy Development Board (NDDB), the country's milk production was 104.8 million tonnes in 2007-08. It has 57 per cent of the world's buffalo population. Our country ranks first in respect of buffalo population in the world. Nowadays economically homogenous group of rural women can be voluntarily coming together and forming women's self-help groups. In rural area, many self-help groups are related to agricultural and livestock enterprises. Similarly, buffalo dairy SHGs are fast emerging as powerful tool of socio-economic empowerment of the women in rural areas. Women are victims of multiple socio-economic and cultural factors. Therefore, there is need for improving their status by enhancing income opportunities. In Ahmednagar district of Maharashtra, women's SHG are running many buffalo dairy enterprises. Thus, present study has been undertaken in order to know the effect of women characteristics on buffalo milk production as well as profitability of the enterprise in SHG.

### METHODOLOGY

Ahmednagar district was purposely selected for present study on the basis of highest number of self-help groups in the district. Jamkhed Tehsil was selected purposely on the basis of highest number of agricultural base women's SHGs in the district. For the study, five buffalo dairy SHGs which were having 10 women members were randomly selected. The cross sectional data were collected from 50 women members with the help of pretested schedule by personal interview during the year 2008-09. Effect of socio-economic characteristics of woman's in self-help group was achieved by application of linear functional analysis. Fitted linear function was of the following form:

$$Y = A + b_1X_1 + b_2X_2 + b_3X_3 + b_4X_4 + b_5X_5 + b_6X_6 + b_7X_7 + b_8X_8 + b_9X_9 + b_{10}X_{10} + b_{11}X_{11}$$

where, Y = Milk production / per household, a = Intercept of production function,  $b_i$  = Partial regression coefficient of production function,  $X_1$  = Age in year,  $X_2$  = Education level in five quantum score,  $X_3$  = Family size in number,  $X_4$  = Social category in five quantum score,  $X_5$  = Occupation level in three quantum score,  $X_6$  = Land holding in hectare,  $X_7$  = Promoting agency in five quantum

#### Correspondence to:

B.R. PAWAR, Department of Agricultural Economics and Statistics, College of Agriculture, LATUR (M.S.) INDIA

#### Authors' affiliations:

S.S. BANKAR AND A.D. KAKADE, Department of Agricultural Economics and Statistics, College of Agriculture, LATUR (M.S.) INDIA