

## Economics of farming system in Ratnagiri, India

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### ABSTRACT

The present study on Economics of farming system was undertaken with specific objectives Viz. to study different farming systems, input use, cost and profitability, income and employment generation, intention in adoption of specific farming system and adoption of modern farm technologies undertaken by farmers. In Ratnagiri district, four farming systems were evaluated viz., only crops, crops + dairy, crops + poultry and crops + goat adopted by 56 (46.66 per cent), 31 (25.83 per cent), 25 (20.83 per cent) and 8 (6.68 per cent), respectively. Net return earned was highest from crops + dairy of Rs. 41,373.21 followed by crops + goat earned 37,902.95, crops + poultry earned Rs. 37,710.24 while only crops earned Rs. 36414.81 revealed that crops + dairy enterprise was most profitable than other enterprises. Per farm income was increased with addition of dairy or poultry. Among the enterprise combinations, the highest employment of 123 days was provided for crops + goat enterprise. Main purposes of keeping animals were production of FYM and utilization of farm by-products. Keeping dairy, poultry and goat was to meet family requirement of eggs, milk and meat. Main reason observed to take sole crop food, insufficient water supply, costly Labour, short duration in nature and it was a main staple food crop.

**Key words :** Farming Systems, Crop & Dairy Profitable Resource Utilization.

### INTRODUCTION

Farming system is a system that represents an appropriate combination of farm enterprises like cropping, livestock, fisheries, poultry etc. and means available with farmer to raise them for productivity. Farming system is a concept takes into account the components of soil, crops, livestock, labour and other resources with the farm family at the centre managing agricultural and related activities on even non-farm avocations. It is a unique and reasonably stable arrangement of farming enterprises that a household manages according to well defined practices in response to physical, biological and socio-economic factors and in accordance with household goals, preferences and resources. The farm family functions, within the limitation of the actual farm situation. This is an indication of general recognition for location-specific programme and planning for a farming system approach, which will benefit the country as a whole, and the resource-poor farmers in particular who are toiling under disadvantage conditions.

The objective of the present study is to identify different farming systems, their input use and profitability and to work out income and employment generation and their intensification adoption.

### MATERIALS AND METHODS

Ratnagiri district of the Konkan region was selected purposively for the study as it has more diversified farming practices. For the selection of cultivators, three stage random

sampling technique was followed with tahsil as primary unit, village as secondary unit and cultivator as ultimate unit to draw a cross sectorial sample of 120 cultivators. The data pertained to the agriculture year 2003 – 04.

### RESULTS AND DISCUSSION

In the study of farming system, four enterprise combinations were identified viz.

- i) Only crops
- ii) Crops + dairy
- iii) Crops + poultry
- iv) Crops + goat

There were 56 cultivators (46.66 per cent) followed only crop production, there were 31 cultivators (25.83 per cent) followed crops + dairy. There were 25 cultivators (20.83 per cent) followed crops + poultry and there were 8 cultivators followed crops + goat (Table 2).

Table 1 : Information of farming systems:

Farming systems identified	No. of cultivators (N = 120)	Percentage
Crops + Dairy	31	(25.83)
Crops + Goat	08	(6.68)
Crops + Poultry	25	(20.83)
Only crops	56	(46.66)
Total	120	(100.00)

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Table 2: Economics of farming systems:

The different farming systems with share of different enterprise is given in table

Enterprise Combination	(Amount in Rs.)				
	Crop production (N = 120)	Animal production (N = 31)	Poultry (N=20)	Goat (N=14)	Total (N=120)
Crops + Dairy	36,414.81 (88.01)	4,958.40 (11.99)	-	-	41373.21 (100.00)
Crops + Goat	36,414.81 (96.07)	-	-	1488.14 (3.93)	37902.95 (100.00)
Crops + Poultry	36,414.81 (96.56)	-	1,295.45 (3.44)	-	37710.24 (100.00)
Only crops	36,414.81 (100.00)	-	-	-	36414.81 (100.00)
Total	1,68,915.24 (94.95)	4,958.40 (3.24)	1,295.45 (0.84)	1488.14 (0.97)	153401.23 (100.00)

Table 3: Per farm employment due to different enterprise combination.

Enterprise combination	Hired (days)			Family (days)			Total (days)
	M	F	Total	M	F	Total	
Only crops	16.63	10.40	35.03	15.86	21.64	37.50	72.53
Total	16.63	10.40	35.03	15.86	21.64	37.50	72.53
Crops + Dairy	16.63	10.40	35.03	15.86	21.64	37.50	72.53
	4.15	9.65	13.80	4.04	24.39	28.43	42.23
Total	20.78	19.05	39.83	29.90	26.03	55.93	114.76
Crops + Poultry	16.63	18.40	35.03	15.86	21.64	37.50	72.53
	-	-	-	-	12.40	12.40	12.40
Total	16.63	18.40	35.03	15.86	34.04	49.90	84.93
Crops + Goat	16.63	18.40	35.03	15.86	21.64	37.50	72.53
	-	-	-	36.96	13.39	50.35	50.35
Total	16.63	18.40	35.03	52.82	35.03	87.85	122.88

The total income from different enterprise combination indicated that the detail analysis of each systems revealed that highest income of Rs. 41373.21 was obtained from crops + dairy enterprise, followed by crops + goat enterprise combination got net income of Rs. 37902.95, crops + poultry got net income of Rs. 37750.24 while only crops enterprise got Rs. 36414.81.

Amongst the systems Crop + Dairy enterprise has maximum share in all the systems (Table 2).

Per farm employment due to different enterprises combination is given in Table 3. Among the four enterprise combinations highest employment was provided by the crops + goat (122.88 days) followed by crops + dairy (114.76 days), crops + poultry (84.93 days) and lastly only crops enterprise combination

which provided lowest employment (72.53 days) due to single enterprise.

## REFERENCES

- Choudhary, V.K. (1995).** Income and employment opportunities under dairy and crop enterprises. *Ind. J. Agric. Econ.*, **50(3)**:369.
- Kumar, S. and Jain, D.K. (1999).** Economic analysis of farming system in Mathura district of Uttar Pradesh. Annual report 1998-99, NDRI, Karnal : 45.
- Naik, V.G., Patil, H.K. and Mulik, S.M. (2002).** Economics of farming systems in South Konkan coastal region of Maharashtra state. Paper presented in 13<sup>th</sup> annual convention of Maharashtra Society of Agricultural Economics held at Amravati, Feb. 2002.

Received : May, 2006; Accepted : January, 2007