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### **Original Research Paper**

Commerce

## PERFORMANCE OF PRIMARY AGRICULTURAL CO-OPERATIVE SOCIETIES IN KURNOOL DISTRICT OF ANDHRA PRADESH

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requires capital. Owing to the peculiarities of agriculture, especially its uncertainties, low returns, high rates of rent and limited scope for employment, a large number of cultivators cannot manage the needed finance without recourse to borrowing. The lesson of universal agrarian history from Rome to Scotland is that, the essence of agriculture is credit. Neither the condition of the country nor the nature of land tenures, nor the position of agriculture, affects one great fact that agriculturists must borrow. In this paper an attempt has been made to study the performance of Primary Agricultural Co-operative Societies focusing the impact of co-operative credit on farm income, asset creation between borrowers and non-borrowers in Kurnool District of Andhra Pradesh for the co-operative year 2016-17.

**KEYWORDS** 

Grain production, cost structure, Gini-coefficient, default etc.

#### 1. THE PRELUDE

Agricultural credit is a diversified and complex subject. The existence of a strong and efficient credit institution is like winning more than half the battle, especially in developing countries, and the success of credit oriented development projects is significantly dependent upon the soundness of the credit structure - that of the credit institution and the credit system. Agriculture assumes greater importance in a developing country like India for its varied contributions to the national economy. Nearly 72 per cent of the total population directly depends on this sector for their livelihood. In making available the three basic needs for human existence viz., food, shelter and clothing, agriculture leads over all the other sectors of the economy. In addition to these, it provides all the fodder that is needed to sustain livestock whose number runs into several crores.

Agriculture like other industries requires capital. Owing to the peculiarities of agriculture, especially its uncertainties, low returns, high rates of rent and limited scope for employment, a large number of cultivators cannot manage the needed finance without recourse to borrowing. The lesson of universal agrarian history from Rome to Scotland is that, the essence of agriculture is credit. Neither the condition of the country nor the nature of land tenures, nor the position of agriculture, affects one great fact that agriculturists must borrow. In this paper an attempt has been made to study the performance of Primary Agricultural Cooperative Societies in Kurnool District of Andhra Pradesh.

#### 2. SAMPLE DESIGN

To cover the wide range of population spread over the district two stage sampling plan is considered to be more efficient and flexible. Selection of PACS formed the first stage and selection of borrower and non-borrowers the second stage. There are 32, 42 and 27 societies in Kurnool, Nandyal and Adoni Divisions respectively. From each division six PACS are purposively selected for analyzing the organization and operational issues of PACS in the district. In the next stage for household survey, six societies (two societies from each division) out of the first stage sample are randomly selected by drawing lots. A list of borrowers and non-borrowers

to be more efficient and flexible. stage and selection of borrower age.There are 32, 42 and 27 nd Adoni Divisions respectively. non- borrowers. The inequality in the distribution of assets and debt among farm categories is measured with the help of Gini-Coefficient. It is higher for both assets and debt for borrowers (0.43 and 0.32) compared with those of non-borrowers (0.41 and 0.27).

0.94)

#### d. Sources of credit

The share of institutional credit in total current borrowings during 2016-17 was 66 per cent for borrowers and 55 percent for nonborrowers. Among the institutional agencies PACS provided 30

within the jurisdiction of the each of the six societies was prepared and post - stratified into three groups on the basis of land holding

viz., small (below 5 acres), medium (5-10 acres) and large farmers

(about 10 acres). The size of ultimate sampling is 216 (borrowers

108 + non-borrowers 108) households were selected at the rate of

36 from each society for field investigation and the results are

There is a high inequality in the distribution of land in the rural

economy of Kurnool district. The average size of the holding of

borrowers (8.45 acres) is slightly higher than that of non-

borrowers (7.81 acres). The dispersion of land as measured by S.D,

C.V and SKP (78.93, 51.89% and 1.45) is higher for the former

Cropping pattern is a function of several internal and external

factors. Paddy occupies 64 per cent of the cropped area of the

borrowers, and 68 per cent of the cropped area of non-borrowers.

There is a greater dependence on paddy by all size groups of

borrowers and non- borrowers. There is an inverse relationship

between farm size and cropping intensity, and it is stronger in case

of non-borrowers (r=-0.97) when compared to borrowers (r=-

There is a positive relationship between asset status and debt

accumulation, with the 'r' value of 0.98 for borrowers and 0.97 for

category than for the latter (42.18, 44.9% and 1.2).

analyzed and presented in this paper.

a. Land ownership distribution

3. FINDINGS

b. Cropping pattern

c. Asset level and loan size

per cent of the credit to the borrowers where as in the case of nonborrowers commercial banks provided 32 per cent of current borrowings. Among the non-institutional agencies moneylenders are the chief sources of credit in both cases. Institutionalization of farm credit does not necessarily ensure an equitable distribution. The 'r' between size of holdings and institutional credit works out to 0.95 for borrowers and 0.94 for non-borrowers, indicating a stronger relationship between farm size and formal credit for nonborrowers. The dependence of non-borrowing marginal and small farmers on non-institutional agencies is higher than that of their borrowing counterparts. The average amount of borrowing and farm size are positively related (r=0.99). Skewed distribution of cooperative credit is a reflection of inequality in the distribution of land ownership.

#### e. Impact of co-operative credit on yield and income

Details of cost of cultivation, yield and income of sample households are presented in Table 1.

# TABLE 1 : COST OF CULTIVATION, YIELD AND INCOME OF SAMPLE HOUSEHOLDS FROM PADDY CROP : 2016-17

Categor y	Cost of cultivation (per acre in Rs.)		Grain production per acre in quintals		Market price (per quintal in Rs.)		Gross income (per acre in Rs.)	
	Borro -wers	Non- borro -wers	Borro -wers	Non- borro -wers	Borro -wers	Non- borro -wers	Borro -wers	Non- borro -wers
Small	3150	3125	16.25	16.00	580	580	9425	9280
Medium	3400	3350	16.50	16.40	590	590	9735	9676
Large	3500	3425	16.75	16.50	600	600	1005	9900
All categori es	3325	3275	16.85	16.50	585	585	9750	9625

#### Source : Sample data

Cost of cultivation, grain production, and gross income per acre are higher for all categories of borrowers than non-borrowers. Cost of cultivation and gross income tend to increase consistently with the increasing farm size for both the categories. There is a high degree of positive relationship between farm size and grain production and the correlation co-efficient worked out to 0.99 for borrowers and 0.94 for non-borrowers. Similarly farm size and gross income are positively related for both borrowers (r = 0.99) and non-borrowers (r = 0.98).

Student t- test employed to know whether the average of variables differ significantly or not, is applied for the yield and income variables from paddy crop between borrowers and non-borrowers and the results are shown in Table 2.

#### TABLE 2 : RESULT OF t-TEST

Catego	Yield			Income			
ry	⊼₁ (B)	$\overline{X}_2$ (NB)	't'- value	⊼₁ (B)	X <sub>2</sub> (NB)	't'- value	
Small	16.25	16.00	4.63*	9425	9280	5.07*	
Medium	16.50	16.40	0.73 <sup>NS</sup>	9735	9676	0.58 <sup>NS</sup>	
Large	16.75	16.50	0.77 <sup>NS</sup>	10050	9900	1.16 <sup>NS</sup>	

Table t-value = 4.604 \* Significant at 5% level \*\* Not significant at 5% level

As the calculated 't' value (4.63) is higher than table value (4.60) in the case of small farmers, the null hypothesis viz., co-operative credit has no significant effect on yield and income is rejected. But in the case of medium and large farmers the null hypothesis is accepted because the calculated't' values are less than table values.

The above analysis was confined to single crop that is paddy only.

There are several other crops which are grown by sample borrowers and non-borrowers, therefore, it is necessary to mention those details. Due to the complications associated with measurement of productivity and the respective prices of commodities, only unit area particulars of cost of cultivation and gross income for all crops and for the different size groups of borrowers and non-borrowers are shown in Table 3.

# TABLE 3 COST OF CULTIVATION AND INCOME OF SAMPLE HOUSEHOLDS FROM ALL CROPS: 2016-17 (Per acre in Rs.)

Category	Borrowers		Non-Borrowers		
	Cost of	Gross	cost of	Gross	
	cultivation	income	cultivation	income	
Small	3300	9450	3200	9300	
Medium	3550	9850	3500	9675	
Large	3700	10150	3575	10050	
All categories	3575	9875	3375	9775	

Source : Sample data

It is evident from Table 3 that there is a positive relationship between farm size and cost of cultivation for both borrowers (r = 0.98) and non-borrowers (r = 0.94). Similarly, farm size and gross income are also positively related in the case of borrowers (r = 0.99) and non-borrowers (r = 0.989). Household income consists of farm and non-farm business income. In the present study non-farm business income is excluded due to data limitations. Category wise distribution of farm income of sample households is shown in Table 4.

TABLE 4 CATEGORY - WISE DISTRIBUTION OF FARM INCOMES OF SAMPLE HOUSEHOLDS (in Rs.)

Category	Borrowers		Non-Borrowers		
	Income	% to total	Income	% to total	
Small	445570	11.79	279930	11.74	
Medium	967270	25.60	609040	25.54	
Large	2365460	62.61	1495440	62.72	
Total	3778300	100.00	2384410	100.00	

#### Source : Sample data

The distribution of income is more skewed and varied for nonborrowers (skp = 1.73 and cv = 57.63%) than for borrowers (skp = 1.21 and cv 45.51%). It can be noticed from table 4 that there is inequality in the distribution of income among different categories of farmers in both borrowers and non-borrowers. Gini co-efficient calculated for the data, which is (0.42) for non-borrowers is slightly higher than borrowers (0.41).

#### 4. EXTENT AND CAUSES OF DEFAULT

Out of 108 borrowers, 64 were defaulters. Defaulters to total borrowers and percentage of NPAs to outstanding increased with the size of holding. The 'r' value is 0.99 for the latter which is higher when compared to the former (0.94). Average amount defaulted increased with the size of holding (r=0.98). There is a skewed distribution in the amount defaulted among different categories of farmers (SKP. 0.72). ANOVA results show that there is no significant difference in the distribution of defaulters between different regions and categories. But there is a significant difference is noticed between different categories of farmers in the amount defaulted. However no significant difference is noticed between different categories of farmers in the amount defaulted. Illiteracy, larger size of the family, higher dependency on food crops, lower financial assets and relationship with the managing committee are the socio-economic characteristics of co-operative loan delinquency.

Variability in incomes caused by natural calamities (26 per cent), attitudinal conditions (25 per cent) and misallocation (24 per cent) are the important factors leading to loan delinquency besides defects in credit organisation (13 per cent), defects in farm production (10 per cent) and miscellaneous (2 per cent).

#### 5. SUGGESTIONS

The results of t-test indicate that co-operative credit has significant effect on yield and income of small farmers, compared to those of medium and large farmers. The inequality in the distribution of co-operative credit is noticed in the present study. Further, it is observed that the incidence and extent of default is more in large and medium farmers when compared to small farmers. Thus, the enlargement of the membership and extensive rationing of credit is the need of the hour.

It is observed that 50 per cent of default is due to attitudinal conditions and misallocation of funds by large and medium farmers. The lending institutions should strictly monitor the utilization of the loan by frequent visits, so that the loans must be used for the purpose for which they are sanctioned. Proper procedures with suitable repayment schedules should be adopted for the recovery of loans at the time when the farmers sell their produce. Official lenience and political patronage by way of flouting norms in sanction and repayment of loans should be completely eliminated. The State and Central governments should not interfere in the working of the credit institutions and leave them free to grant loans to deserving applicants and suitable action should be taken against defaulters Variability in incomes (26 per cent) and defects in credit organization (13 per cent) call for appropriate reforms for stabilization of farm income by introducing crop insurance and marketing reforms. On the whole this study emphasizes the need for an equitable distribution of governing body membership, extensive rationing of credit, effective monitoring and prompt repayment of loans. Finally, it should be realized that co-operatives have an indispensable role in the sustenance of rural economy, which is the life line of National economy. "Co-operatives have failed, but every effort must be made to make them a success".

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