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RESULTS & DISCUSSION

FINDINGS

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DETERMINANTS OF REPAYMENT IN AGRICULTURAL CREDIT IN COIMBATORE DISTRICT

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ABSTRACT

The study finds that there was a good recovery performance on the part of the medium farmers as compared to other categories of farmers. It was so because the medium farmers were not the wilful defaulters and they were prompt in their repayment to some extent. The size of land holdings, size of family, education, farm income and age of the farmer were independent from the repayment of loan. The discriminant analysis reveals that during the study period, the land size emerged as the dominating factor that influences the amount of recovery. In the regression analysis, the amount of credit and net farm income emerged as significant variables in explaining the variations in the amount of recovery. The net farm income and amount of credit had a positive impact on the amount of recovery. It implies that higher the amount of credit and farm income, higher will be the amount of recovery and vice versa.

KEYWORDS

Agriculture credit, Coimbatore.

INTRODUCTION

he rural credit market appears to be confronted with a paradox. The informal sources of finance, be they local money lenders, landlords, traders, etc., charge more than 20% rate of interest, often keep land as collateral against loan and have a very high recovery rate. On the other hand, rural financial institutions (RFIs) charge almost half of this interest rate, do not take land as collateral for most of the crop loans, and still face high defaults. Where and how rural financial institutions have gone wrong? From the reports of several committees and Task forces on rural credit, it appears that the RFIs, with the sole objective of eliminating informal finance through moneylenders, have always been allowing leniency in their financial policies. The result is that while informal finance still holds significance in the rural areas1, the RFIs, especially cooperatives are heading towards a state of financial unsustainability. The main factors behind financial unsustainability of the RFIs are stated to be overwhelming overdues or non-performing assets, high transaction cost, low financial margins and regulated interest rates (Devaraja, 2011).

The average loan recovery of SCBs and DCCBs as on 30 June 2009 improved marginally to 92 and 72 per cent from 85 and 56 per cent, respectively, over the previous year. In absolute terms, loan recovery of SCBs improved from Rs.26,433.54 crore to Rs.33,893.73 crore. At the DCCB level, it increased from Rs.39,544.40 crore to Rs.57326.77 crore. The average loan recovery of SCARDBs and PCARDBs, as on 30 June 2009, declined to 40 and 40.3 per cent from 50 and 42 per cent, respectively, over the previous year. In absolute terms, loan recovery of SCARDBs and PCARDB and PCARDB declined to Rs.3,860.44 crore and Rs.2,842.47 crore, as on 30 June 2009, from Rs.5,367.81 crore and Rs.3,190.10 crore, respectively, over the previous year. (NABARD, 2010).

Bayesian analysis and Discriminant analysis were used for analyzing the Probability Contribution of the selected socio-economic variables to the amount of recovery and to discriminate the borrowers into defaulters and non-defaulters.

The findings of the study show that there was a good recovery performance on the part of the medium farmers as compared to other categories of farmers. The discriminant analysis reveals that during the study period, the land size emerged as the dominating factor that influences the amount of recovery. In the regression analysis, the amount of credit and net farm income emerged as significant variables in explaining the variations in the amount of recovery. The net farm income and amount of credit had a positive impact on the amount of recovery. It implies that higher the amount of credit and farm income, higher will be the amount of recovery and vice versa.

DETERIMINANTS OF REPAYMENT IN AGRICULTURAL CREDIT IN COIMBATORE DISTRICT

Agriculture plays a crucial role in the development of the Indian economy. It accounts for about 19 per cent of GDP and about two thirds of the population is dependent on the sector. The importance of farm credit as a critical input to agriculture is reinforced by the unique role of Indian agriculture in the macroeconomic framework and its role in poverty alleviation. Recognising the importance of agriculture sector in India's development, the Government and the Reserve Bank of India (RBI) have played a vital role in creating a broad-based institutional framework for catering to the increasing credit requirements of the sector. Agricultural policies in India have been reviewed from time to time to maintain pace with the changing requirements of the agriculture sector, which forms an important segment of the priority sector lending of scheduled commercial banks (SCBs) and target of 18 per cent of net bank credit has been stipulated for the sector. The Approach Paper to the Eleventh Five Year Plan has set a target of 4 per cent for the agriculture sector within the overall GDP growth target of 9 per cent. In this context, the need for affordable, sufficient and timely supply of institutional credit to agriculture has assumed critical importance (**Golait**, 2007).

The rural credit market appears to be confronted with a paradox. The informal sources of finance, be they local money lenders, landlords, traders, etc., charge more than 20% rate of interest, often keep land as collateral against loan and have a very high recovery rate. On the other hand, rural financial institutions (RFIs) charge almost half of this interest rate, do not take land as collateral for most of the crop loans, and still face high defaults. Where and how rural financial institutions have gone wrong? From the reports of several committees and Task forces on rural credit, it appears that the RFIs, with the sole objective of eliminating informal finance through moneylenders, have always been allowing leniency in their financial unsustainability. The main factors behind financial unsustainability of the RFIs are stated to be overwhelming overdues or non-performing assets, high transaction cost, low financial margins and regulated interest rates (Devaraja, 2011).

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It will be useful to examine the magnitude of overdues in the agricultural sector that are likely to be written off. The present study is a step in this direction.

OBJECTIVES

The following are the specific objectives of the study.

- 1. To assess the recovery performance of farm loan among farm households.
- 2. To identify the factors determining repayment

METHODOLOGY

The study was conducted in Coimbatore district. Data for the study were collected from primary source. Interview schedules were used to collect information on the socio-economic profile of the farmers, the amount borrowed, amount repaid, overdues, landholding size, farm and family expenses, farm income, nonfarm income and total variable cost. A pilot study was conducted to identify the gaps in the interview schedule. On the basis of the observation during the pilot study, the schedule was modified and the final survey was conducted with the restructured schedule.

SELECTION OF SAMPLE

A two – stage random sampling procedure was followed in selecting the sample of borrowed farmers. Pannimadai village was selected as in this village agriculture is intensively financed both in terms of amount of agricultural advances and the number of farm families financed. The banks located near the village namely The Union Bank of India, Canara Bank, Indian Overseas Bank and Corporation Bank had been approached to collect information of the list borrowers / defaulters and their addresses. The co-operatives, the land development banks and the farmer's credit societies had been omitted, as they were not willing to provide the list of borrowers. Out of the 150 borrowers in the list provided by the four banks branches, 50 were selected randomly. It was found that, in the selected area, 9 were large farmers with more than five hectares, 8 were medium farmers with four to five hectares, 19 were semi-medium farmers with two to four hectares and 14 belonged to small and marginal farmer's category with less than two hectares of operational holdings.

ANALYTICAL TECHNIQUES

A critical analysis of the methodologies adopted in the studies on recovery and overdues in agricultural credit had revealed the extensive application of the regression analysis (multi variable) to estimate the relationship between socio-economic characteristics of the borrowed farmers and the amount of repayment. A very few analytical studies had used, Bayesian analysis and Discriminant analysis for analyzing the Probability Contribution of the selected socio-economic variables to the amount of recovery and to discriminate the borrowers into defaulters and non-defaulters. Hence the study is concentrated on the above analytical tools.

The specification of the econometric models is as under.

1. To analyse the impact of the selected socio-economic variables in the recovery performance, a regression of the form.

 $\mathsf{Y} = \mathsf{a}_1\mathsf{X}_1 + \mathsf{a}_2\mathsf{X}_2 + \mathsf{a}_3\mathsf{X}_3 + \mathsf{a}_4\mathsf{X}_4 + \mathsf{a}_5\mathsf{X}_5 + \mathsf{a}_6\mathsf{X}_6 + \mathsf{a}_7\mathsf{X}_7 + \mathsf{U}$

Was used.

Where,

- Y Amount repayment (in Rs.)
- X_1 Amount of credit (in Rs.)
- X_2 Landholding size (in hectares.)
- X_3 Consumption expenditure (in Rs.)
- X₄ Capital expenditure (in Rs.)
- X₅ Farm income (in Rs.)
- X₆ Non-farm income (in Rs.)
- X₇ Total variable cost (in Rs.)

U – Random term DISCRIMINANT ANALYSIS

To identify the factors discriminating the defaulters in to wilful and non-wilful, discriminant function was applied. A linear discriminant function of the form. $Z = L_1X_1 + L_2X_2 + L_3X_3 + L_4X_4 + L_5X_5 + L_6X_6 + L_7X_7 + U$

was used.

Z = Total discriminant score for defaulter and non-defaulters.

- X_1 Amount borrowed (in Rs.)
- X₂-land holdings (in hectares)
- X₃ Consumption expenditure (in Rs.)
- X₄ Capital expenditure (in Rs.)
- X₅ Farm income (in Rs.)
- X₆ Non-farm income (in Rs.)
- X₇ Total variable cost (in Rs.)

CHI-SQUARE ANALYSIS

In order to examine the association between the repaying behavior (defaulter and non-defaulter) and the socio-economic characteristics of the defaulters, chisquare test was applied. The formula for chi-square test is:

 $\chi^2 =$

- $\Sigma (O-E)^2$
- 'O' refers to observed frequencies
- 'E' refers to expected frequencies
- The factors in association with repaying behavior include the following

E

- a) Size of landholding
- b) Size of family
- c) Education of the family headd) Farm income
- d) Farm ir e) Age

BAYESIAN ANALYSIS

To analysis the socio-economic characteristics and their probable contribution to defaulters and non-defaulters, Bayes theorem was used as an analytical model. The basic idea of Bayesian argument is that given a priori distribution for the parameter, might be the probability, for example, the posterior probabilities for a given data can be calculated. Bayesian theorem is based on the formula for conditional probability.

Let w1 and w2 be a (defaulters and non-defaulters) mutually exclusive and exhaustive events if (cj) is another set of evens such that p (cj) is not zero, then



The classification of the factors to find out the probable contribution to overdues.

RESULTS AND DISCUSSION

DEMAND, COLLECTION AND OVERDUES OF CROP LOAN - CROP WISE AND FARMER CATEGORY WISE

The demand for the crop loan was computed as the principal amount plus rate of interest. Collection is the actual amount repaid by the farmers in that period. Overdue is the difference between demand and collection. The demand, collection and overdues of crop loan are shown in Table -1.

| TABLE -1: FARMER CATEGORY | WISE DISTRIBUTION OF DEMAND, | , COLLECTION AND OVERDUES OF (| ROP LOAN |
|----------------------------------|------------------------------|--------------------------------|----------|
| | | | |

| Farmer category | Demand | Collection | Overdues |
|-----------------|----------|------------|-------------------------|
| Marginal | 22,500 | 22,500 | - |
| Small | 2,61,000 | 86,600 | 1, <mark>74,</mark> 400 |
| | | | (66.82) |
| Semi-Medium | 3,47,625 | 2,25,545 | 1,22,080 |
| | | | (35.12) |
| Medium | 4,44,375 | 3,56,375 | 88,000 |
| | | | (19.80) |
| Large | 3,09,375 | 78,975 | 2,30,400 |
| | | | (74.47) |

Note: Figures in parentheses indicate percentages.

It was observed that the amount demanded for various crops by the medium farmers was Rs.4,44,375, out of which the amount collected was found to be Rs.3,56,375 which accounted for 80.2 percent to the demand. It shows that there was a good recovery performance on the part of the medium farmers as compared to other categories of farmers. It was so because the medium farmers were not the wilful defaulters and they were prompt in their repayment to some extent.

DEMAND, COLLECTION AND OVERDUES OF INVESTMENT LOAN - PURPOSE WISE AND FARMER CATEGORY WISE

The demand for the year was computed as the sum of the loan amount and the interest (different rates for different purposes) calculated for the entire period of loan divided by the number of years to repay. Collection means the actual amount repaid by the farmers in that year. Overdue is the difference between demand and collection. The details regarding demand, collection overdues of investment loan are given in Table 11 and Table -2.

TABLE -2: FARMER CATEGORY WISE DISTRIBUTION OF DEMAND, COLLECTION AND OVERDUES OF INVESTMENT LOAN

| Farmer category | Demand | Collection | Overdues |
|-------------------------------------|----------|------------|----------|
| Dug well | 1,21,875 | 74,875 | 47,000 |
| | | | (38.50) |
| Electric motor | 3,20,000 | 3,06,500 | 13,500 |
| | | | (4.22) |
| Land development | 4,25,000 | 3,22,900 | 1,02,100 |
| and the second second | | | (24.02) |
| Tractor | 4,70,000 | 4,70,000 | - |
| Purchase of livestock/ bullock cart | 8,97,500 | 6,70,000 | 2,27,100 |
| | | | (25.30) |
| Drip irrigation | 4,03,125 | 79,125 | 3,24,000 |
| 100 C 100 C 100 C | | | (80.37) |
| Fertilisers | 56,250 | 28,250.00 | 28,000 |
| | | | (49.78) |

Note: Figures in parentheses indicate percentages.

The table indicates that, the percentage of investment loan given for the purchase of livestock / bullock carts was higher and the recovery performance on the part of this purpose was 74.70 percent. The large farmers had higher magnitude for borrowings as well as higher amount of overdues for drip irrigation than other categories of farmers probably because of better social and political links.

DETERMINANTS OF OVERDUES

- The determinants of repayment are discussed under the following heads.
- 1. Chi-square analysis
- 2. Discrminant function analysis
- 3. Bayesian analysis
- 4. Multiple-regression analysis

1. CHI-SQUARE ANALYSIS

In order to understand the association between the socio-economic factors across the various categories of farmers and the repayment performance stated in terms of fully repaid and not repaid, chi-square test was used. The variables namely size of land, size of family, education of the borrower, farm income and age of the farmer were selected and put into the analysis. The results of the analysis are presented in Table -3.

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| S.No. | Variables | Calculated χ2 value | Significance of the variable | | |
|-------------------------|--------------------|---------------------|------------------------------|--|--|
| 1. | Size of land 0.195 | | In significant | | |
| 2. Size of family 0.090 | | 0.090 | In significant | | |
| 3. | Education | 0.927 | In significant | | |
| 4. | Farm income | 0.340 | In significant | | |
| 5. | Age | 0.045 | In significant | | |

It was found that, there was no association between the repayment performance and the selected socio-economic variables since, the calculated chi-square values of all the variables were less than the theoretical value. It implies that the size of land holdings, size of family, education, farm income and age of the farmer were independent from the repayment of loan.

2. DISCRIMINANT FUNCTION ANALYSIS

The identify the socio-economic factors, which discriminate the farmers into non-defaulters and defaulters, the discriminant analysis was carried out by taking into account seven socio-economic variables.

Out of the 50 farmer respondents, 29 were defaulters and 21 were non-defaulters. The farmers who repay the loan are the non defaulters. The farmers who did not repay the loan are defaulters. It was assumed that certain economic factors were associated with the incidence of defaulting and non-defaulting. Those factors were credit, land holding size, consumption expenditure, capital expenditure, farm income, non-farm income and total variable cost which were put in to the discriminant analysis. The estimated discriminant function was

The above equation reveals that higher the level of amount borrowed, capital expenditure, non-farm income and total variable cost, larger will be the output of defaulting.

To examine the relative importance of the characteristics based on the power to discriminate between the groups, the percentage contribution of each character to the total distance measured was calculated and are shown in Table-4.

| S.No. | Variables | Group I | Group II | Unstandardised Discriminating | Relative Discriminating | Relative Discriminating |
|-------|---------------------------------------|-----------|-----------|-------------------------------|-------------------------|-------------------------|
| | | Mean | Mean | Power | Power | Power |
| 1. | Credit (X ₁) | 47496.19 | 61862.07 | 0.0000017 | 0.0242 | 3.33 |
| 2. | Land holdings (X ₂) | 2.97 | 3.91 | -0.5256592 | 0.4939 | 68.08 |
| 3. | Consumption | 41761.90 | 42844.83 | -0.0000036 | 0.0039 | 0.54 |
| | expenditure (X ₃) | | | | | |
| 4. | Capital expenditure(X ₄) | 23428.57 | 24284.48 | 0.0000267 | 0.0229 | 3.15 |
| 5. | Farm income (X₅) | 120238.10 | 154689.66 | -0.0000015 | 0.0534 | 7.36 |
| 6. | Non-farm income (X ₆) | 26000.00 | 20034.48 | 0.0000182 | 0.1085 | 14.95 |
| 7. | Total variable cost (X ₇) | 65150.00 | 78782.76 | 0.0000014 | 0.0187 | 2.58 |

TABLE -4' RELATIVE DISCRIMINATING POWER

From the above table, it is evident that, land holding size (68.08 percent) and non farm income (14.95 percent) emerged to be the most dominating factors. It reveals that larger the land holding size, lower will be the amount of defaulting and higher the non-farm income, higher will be amount of defaulting inferred from the sign of discriminant coefficients. Thus the discriminant analysis reveals that during the study period, the land size emerged as the dominating factor that influences the amount of recovery.

3. BAYESIAN ANALYSIS

The analyse the probable contribution of the socio-economic characteristics to defaulting and non-defaulting, Bayes theorem was used as an analytical model. The basic idea of Bayesian argument is that given a priori distribution for the parameter, might be the probability, the posterior probabilities for a given data can be calculated (Naidu et al., 1986).

It is required to find the posterior possibilities for non-defaulters (n1) and defaulters (n2) for the given data, when a priori probabilities $P(\theta 2)$ of $\theta 1$ and $\theta 2$ are known. Each of the characteristics of the farmers were divided into two or more categories. The priori and posterior probabilities of various socio-economic characteristics were computed and is given in Table -5.

TABLE - 5: PRIOR AND POSTERIOR PROBABILITY FOR DEFAULTERS AND NON-DEFAULTERS

| S.No. Characteristics | | Code No. | Ρ(θ1) | Prior and conditiona | al probabilities | obabilities Posterior probabilities | | |
|-----------------------|--|----------|-----------------------|----------------------|------------------|-------------------------------------|-----------|--|
| | | | P(cj/ 0 i) | Non-defaulter | Defaulter | Non-defaulter | Defaulter | |
| 1. | Occupation | 1 | 0.67 | 0.4128 | 0.2539 | 0.6191 | 0.3808 | |
| | | 2 | 0.33 | 0.2299 | 0.1034 | 0.6897 | 0.3103 | |
| 2. | Education | 1 | 0.18 | 0.04 | 0.14 | 0.24 | 0.76 | |
| | | 2 | 0.38 | 0.16 | 0.22 | 0.43 | 0.57 | |
| | | 3 | 0.24 | 0.03 | 0.21 | 0.14 | 0.86 | |
| | | 4 | 0.20 | 0.04 | 0.16 | 0.19 | 0.81 | |
| 3. | Size of Holding | 1 | 0.28 | 0.07 | 0.21 | 0.24 | 0.76 | |
| | | 2 | 0.38 | 0.20 | 0.18 | 0.52 | 0.48 | |
| | | 3 | 0.20 | 0.04 | 0.16 | 0.19 | 0.81 | |
| | | 4 | 0.14 | 0.01 | 0.13 | 0.05 | 0.95 | |
| 4. | Amount Borrowed | 1 | 0.80 | 0.65 | 0.15 | 0.81 | 0.19 | |
| | | 2 | 0.20 | 0.16 | 0.04 | 0.79 | 0.21 | |
| 5. | Credit Gap | 1 | 0.40 | 0.11 | 0.29 | 0.29 | 0.71 | |
| | | 2 | 0.60 | 0.29 | 0.31 | 0.48 | 0.52 | |
| 6. | Farm Income | 1 | 0.62 | 0.41 | 0.19 | 0.67 | 0.33 | |
| | | 2 | 0.38 | 0.26 | 0.12 | 0.69 | 0.31 | |
| 7. | Non-farm Income | 1 | 0.64 | 0.39 | 0.24 | 0.62 | 0.38 | |
| | | 2 | 0.36 | 0.24 | 0.12 | 0.66 | 0.34 | |
| 8. | Proportion of family members towards farm labour | 1 | 0.46 | 0.24 | 0.22 | 0.52 | 0.48 | |
| | | 2 | 0.42 | 0.14 | 0.28 | 0.33 | 0.67 | |
| | | 3 | 0.12 | 0.02 | 0.10 | 0.14 | 0.86 | |
| 8. | Proportion of family members towards farm labour | 1 | 0.46 | 0.24 | 0.22 | 0.52 | 0.48 | |
| | | 2 | 0.42 | 0.14 | 0.28 | 0.33 | 0.67 | |
| | | 3 | 0.12 | 0.02 | 0.10 | 0.14 | 0.86 | |
| 9. | Consumption Expenditure | 1 | 0.70 | 0.53 | 0.17 | 0.76 | 0.24 | |
| | | 2 | 0.30 | 0.20 | 0.10 | 0.66 | 0.34 | |

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The analysis revealed that the posterior probability to become non-defaulter was high with the borrowers who had the sub-occupation other than agriculture (68.97 percent). Where as it was less with borrowers who had occupation of exclusively agriculture (61.91 percent). This might be due to the reason that the non-farm income may make the borrowers to have capacity to repay. If the farmers completed their higher secondary and collegiate education, the probability of defaulting was higher. It was also observed that higher the size of land holding, higher will be the probability of defaulting. If the borrower borrows larger amount, the probability of non-defaulting was less. If the magnitude of credit gap widened, the chances to become defaulter had decreased. It shows that, if the bank is able to provide more amount of credit to the farmers, there is a possibility of defaulting. Finally, it was inferred that there was higher probability of defaulting with higher number of family labour and consumption expenditure. It was so because, when the borrowers had to spend more amount on consumption, the repaying capacity of them will be reduced.

REGRESSION ANALYSIS

Various factors that determine the recovery performance had been identified and seven socio-economic variables namely amount of credit, size of land holding, capital expenditure, consumption expenditure, farm income, non-farm income and total variable cost were selected to study the influence of them on amount of recovery. These factors were put in the regression analysis and the results of it are shown in table-6.

| S.No. | Variables | Co-efficients |
|-------|--|---------------|
| 1. | a. Amount of credit (X ₁) | 1.717 |
| | | (3.956)* |
| | b. Land holding (X ₂) | 11972.386 |
| | | (-1.094) |
| | c. Consumption expenditure (X ₃) | -0.708 |
| | | (-1.046) |
| | d. Capital expenditure (X ₄) | -1.961 |
| | | (-1.438) |
| | e. Farm income (X ₅) | 0.623 |
| | | (2.502)* |
| | f. Non-farm income (X ₆) | 0.128 |
| | | (0.390) |
| | g. Total variable cost (X ₇) | -0.448 |
| | | (-1.543) |
| 2. | R ² | 0.98 |
| 3. | F Ratio | 24.35* |

TABLE -6: ESTIMATED REGRESSION COEFFICIENTS OF REPAYMENT FUNCTION

Note: Figures in parantheses indicate 't' values

* - Significant at 5 percent level.

It was observed from the table that, ninety eight percent of the variation in the amount of recovery was explained by the selected socio-economic variables namely amount of credit, size of land holdings, consumption expenditure, capital expenditure, farm income, non-farm income and total variable cost. Among these factors, only the amount of credit and net farm income emerged as significant variables in explaining the variations in the amount of recovery. The net farm income and amount of credit had a positive impact on the amount of recovery. It implies that higher the amount of credit and farm income, higher will be the amount of recovery and vice versa.

CONCLUSION

There was a good recovery performance on the part of the medium farmers as compared to other categories of farmers. It was so because the medium farmers were not the wilful defaulters and they were prompt in their repayment to some extent. The size of land holdings, size of family, education, farm income and age of the farmer were independent from the repayment of loan. The discriminant analysis reveals that during the study period, the land size emerged as the dominating factor that influences the amount of recovery. In the regression analysis, the amount of credit and net farm income emerged as significant variables in explaining the variations in the amount of recovery. The net farm income and amount of credit had a positive impact on the amount of recovery. It implies that higher the amount of credit and farm income, higher will be the amount of recovery and vice versa.

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