# Marketing Efficiency and Marketing Channels for Paddy Crop in the Eastern Region of Uttar Pradesh

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#### ABSTRACT

The study was undertaken in Deoria district of Uttar Pradesh to examine marketed surplus, marketing surplus, disposal pattern and constraints which are faced by the paddy growers in the study area. A sample of 80 farmers of Deoria district (Uttar Pradesh) was selected from 6 villages of two blocks for the year 2009-10. According to this study, the average marketable surplus per farm was 43.26 quintals per farm and the highest marketable surplus was with the large farm household that is to the tune of 77.03 quintals per farm. The average marketed surplus across the farm size group was 44.38 quintals which was more than marketable surplus. Marketed surplus was lowest with marginal farmers i.e. only 25.92 quintals followed by small (28.85 quintals), medium (48.13 quintals) and large (74.65 quintals) farm households. The average on farm requirement across the farm size group was 15.12 quintals which was highest at large farm households. Due to improper infrastructural facilities farmers were forced to sale their crop produce in the local markets at lower prices. There was existence of distress sale on the marginal farmers to sell their produce just after harvesting. Monopoly of buyers /contractors was also quite common observation in the study area. Inadequate price information system was also found as an important marketing problem experienced by the producer-sellers in the study area.

Keywords: Marketing pattern, marketed surplus, marketable surplus, marketing constraint

Globally the paddy productivity has gone up by almost 2.5 times in over 50 years. India stands first in paddy area, over 40 million hectares and second in production. It has almost tripled its production from merely 34.6 million tonnes (milled rice) in1990-61 to record production of 102.9 million tonnes in 2009-10 with average productivity being 2.43 tonnes per hectare. Rice is grown as staple food crop. Similarly, it is also grown for other products like parched rice, beaten rice and parched paddy. In other words rice is a major source of income and food for the farmers. The profitability of crops serves as an incentive for the farmers to adopt new farm technologies at a faster rate. Moreover, crop yield alone does not determine the profitability of a crop rather marketing also exercises an important place. Various research studies in the country have revealed numerous problems faced by farmers in

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marketing of their produce and show low level of marketing efficiency and found that majority of the farmers did not have marketable surplus. Thus, there is a need to assess the marketing pattern followed by the farmers for identification of marketing constraints. Taking into account the significance of the aforementioned facts the study was based on following objectives.

- 1. To find out the marketing pattern followed by the farmers.
- 2. To find out the marketing constraints faced by the farmers.

#### METHODOLOGY

#### Sampling technique

Keeping in mind the objectives of the study, multi

stage stratified random sampling technique was used. Firstly a list of all (16 developmental blocks) the developmental blocks of the district was prepared and two blocks namely *Gauri bazaar* and *Rudrapur* were selected randomly. In the second stage one village from each selected block i.e. Pananha village from Gauri bazaar and Dharauli from Rudrapur block were selected randomly. Then two adjoining villages of *Pananha* and Dharauli namley Surajpur, Khairabanwa and Gahila, Tarasara were selected respectively.

Thus, in this way cluster of three villages ware formed in each selected block. In third stage farmers were classified into different categories of marginal (less than 1 ha of land), small (1-2 ha) medium (2-4 ha) and large (more than 4 ha). Then 20 farmers from each category were selected on the basis of probability proportion to their size from both the clusters of villages, respectively.

## ANALYTICAL FRAMEWORK

### Marketing pattern followed by farmers

To find out the marketing pattern followed by farmers; descriptive analysis was done to examine the marketable surplus, marketed surplus, price received, actual value realized, agency, expenditure incurred in selling the produce, frequency of sale, time of sale and place of sale etc.

### Marketable surplus

 $MS_i = P_i - C_i$ 

Where,

MS<sub>i</sub> = Marketable surplus of i<sup>th</sup> commodity

 $P_i$  = Total production (qt) of i<sup>th</sup> commodity in a year

 $C_i$  = Total requirement of i<sup>th</sup> commodity at farm in qt. for family consumption, seed, payments to labour, artisans, land lord and quantity offered for social and religious works, etc.

### Marketed surplus

It is the quantity of produce which the producerseller actually sells in the market, irrespective of his requirements.



# Constraints faced by the farmers in marketing of their produce

To find out the constraints faced by the farmers in marketing of their produce; Garret's ranking technique was used to rank the constraints faced by the farmers. The sample farmers were asked to rank the problems faced by them marketing of their crop produce. Then the ranks given to a constraint by the farmers were changed into percent position by using the following formula:

Percent position = 100(Rij-0.50)/Nj

Where, R<sub>ij</sub> =Rank given for i<sup>th</sup> item by j<sup>th</sup> individual. Nj = Number of items ranked by j<sup>th</sup> individual.

Then the per cent of rank, for a single constraint was added for total farmers to give the overall percent position which was calculated by dividing sum of per cent of rank for total sample for a constraint by number of respondents. The average per cent position was then converted to scores by referring to the transmutation table, given by Garret's. The ranks were finally assigned by arranging the scores in descending order.

# **RESULTS AND DISCUSSION**

### Marketed and Marketable Surplus

The average marketable surplus per farm for all the farmers across the farm size groups was 43.26 quintals per farm and the highest marketable surplus was with the large farm household that is to the tune of 77.03 quintals per farm. But marketed surplus was higher than marketable surplus for marginal and small farmers.

This implies that marginal and small farmers were compromising with their on farm consumption requirements. The average marketed surplus across the farm size group was 44.38 quintals which was more than marketable surplus. Marketed surplus was lowest with marginal farmers i.e. only 25.92 quintals followed by small (28.85 quintals), medium (48.13 quintals) and large (74.65 quintals) farm households. The average on farm requirement across the farm size group was 15.12 quintals which was highest at large farm households.

When we talk about the total production then we found that the overall average production was



Fig. 1: Marketed and marketable surplus for paddy crop (qt/farm)

| Table 1: | Frequency | of sale for | paddy o | rop | produce by | v different | farm s | size group | (Percent) |
|----------|-----------|-------------|---------|-----|------------|-------------|--------|------------|-----------|
|----------|-----------|-------------|---------|-----|------------|-------------|--------|------------|-----------|

| Marginal | Small   | Medium   | Large  | Overall  | Frequency of sale   |
|----------|---|--|--|--|---|
| 10(2)    | 15(3)   | 10(2)  | 15(3)  | 12.5(10)   | 1   |
| 10(2)    | 20(4)   | 15(3)  | 40(8)  | 21.22(17)  | 2   |
| 25(5)    | 35(7)   | 50(10)   | 20(4)  | 32.5(26)   | 3   |
| 40(8)    | 25(5)   | 15(3)  | 25(5)  | 26.25(21)  | 4   |
| 15(3)    | 5(1)  | 10(2)  | 0  | 7.5(6)   | 5   |
|          | Marginal<br>10(2)<br>10(2)<br>25(5)<br>40(8)<br>15(3) | MarginalSmall10(2)15(3)10(2)20(4)25(5)35(7)40(8)25(5)15(3)5(1) | MarginalSmallMedium10(2)15(3)10(2)10(2)20(4)15(3)25(5)35(7)50(10)40(8)25(5)15(3)15(3)5(1)10(2) | MarginalSmallMediumLarge10(2)15(3)10(2)15(3)10(2)20(4)15(3)40(8)25(5)35(7)50(10)20(4)40(8)25(5)15(3)25(5)15(3)5(1)10(2)0 | MarginalSmallMediumLargeOverall10(2)15(3)10(2)15(3)12.5(10)10(2)20(4)15(3)40(8)21.22(17)25(5)35(7)50(10)20(4)32.5(26)40(8)25(5)15(3)25(5)26.25(21)15(3)5(1)10(2)07.5(6) |

Note: Figures in parentheses indicate the number of farmers

58.38 qt and the highest production was achieved by large farmers.

#### **Frequency of Sale**

Table 1 reveals that frequency of sale for paddy crop is varying from first Sale to fifth sale, and across the farm size groups, majority of the farmers sold their paddy produce in three lots. These results indicate that most of the farmers i.e. 32.5, 26.25 and 21.22 percent farmers of the study area were selling their farm produce in third, fourth and second slots. This is a good indicator that farmers are taking benefits of price fluctuation at the time of good harvest and storing their farm produce for getting better prices. But on the other hand there were 10 percent farmers who were selling their farm produce in first slot itself, as poor storage capacity.

Table 2 reveals that on overall basis major proportion of paddy was sold in second time of sale, and it was around 26.43 per cent of total marketed surplus. It was observed that the majority of the marginal and small farmers had sold the major proportion of marketed surplus at first time of sale, while medium and large farmers were opined that they were selling major proportion of marketed surplus of paddy produce at the time of 3<sup>th</sup> and 2<sup>nd</sup> sale, respectively.

# Average prices received by different categories of farmers

The average price received by the farmers of all the categories was less than statutory minimum price for wheat and paddy crops. As in earlier tables it was depicted that most of the farmers were selling their farm produce in 2, 3 and 4 slots and few farmers were selling in 1 slot itself. As per the recovered data from farmers of the study area, the average price received by the farmers was less than the minimum prices announced by the Govt. of India at the time of sowing of crops.

Marginal farmers were receiving the lowest prices for their farm produce as, their marketable surplus



Fig. 2: Average prices received by different categories of farmers in ₹/qt

| Particulars |            |             | Farm siz     | ze group     |              |              |
|-------------|------------|-------------|--------------|--------------|--------------|--------------|
| Crops       | Marginal   | Small       | Medium       | Large        | Overall      | Time of sale |
| Paddy       | 6.96(26.8) | 7.16(24.81) | 8.75(18.17)  | 21.09(28.18) | 10.99(24.76) | 1            |
|             | 6.75(26.0) | 6.55(22.70) | 8.90(18.49)  | 24.75(33.15) | 11.73(26.43) | 2            |
|             | 5.75(22.1) | 5.92(2.51)  | 13.07(27.15) | 16.83(22.62) | 10.4(23.43)  | 3            |
|             | 3.96(15.2) | 4.72(16.36) | 10.79(22.41) | 11.92(15.96) | 7.84(17.66)  | 4            |
|             | 2.5(9.64)  | 4.50(15.59) | 6.62(13.75)  | -0-          | 3.40(7.66)   | 5            |

Table 2: Quantity sold at different times of sale for paddy crop (Qt/farm)

Note: Figures in parenthesis indicate percentage of marketed surplus

was also high, so these categories of farmers were always ready to sell their farm produce at proposed prices weather it is high or low, because they are having poor bargaining capacity.

# Average Expenditure on Marketing of Farm Produce

The average expenditures incurred on per quintal of paddy was ₹ 14.62 in the study area. Marginal farmers were at lowest position while medium farmers ranked at the top in case of expenditure incurred in marketing of their paddy produce. Marginal farmers spent ₹ 10.54 per quintal of paddy while medium farmers spent ₹ 16.90 for marketing of their paddy produce. It is clear from the data that major part of expenditure was shared by transportation charges and commission charges. As per data the commission charges paid by the farmers on per quintal was ₹ 4.09, which is very depressing and ridiculous for the farmers as well as administration also. Due to this high rate of commission charges and prevailing activities of middlemen in the marketing channel farmers of the study area were not getting the accrual value

of their farm produce as it is clear from the Fig. 3, depicting the realized value of farm produce.

The total expenditure on per quintal bear by the farmers were ranging from ₹ 10.54 to 14.25, indicates that for selling each quintal of paddy farmers were paying ₹ 14.62 as the marketing charges.

The expenditure incurred by small farmers was less than other categories of farmers but the actual value realized for the crop produce was higher for large and medium farmers. The overall average actual value realized by the farmers in the study area was ₹ 839.13 per quintal of paddy produce. As in figure 2 it was cleared that the average received prices for the paddy crop was less that minimum support prices and due to the high per quintal expenditure on marketing and disposing process the farmers were left with only ₹ 839.13/Qtl, against average received price ₹ 853.75.

#### Marketing Area and Agency for Paddy Crop

Majority of the farmers across the farm size groups sold their paddy produce to other agencies. Very few farmers had sold their crop produce to Govt. agency. The table reveals that majority of the





Fig 3: Actual value of sale realized by the farmer for crop produce (₹/farm)

| Particulars                 | Marginal | Small | Medium | Large | Overall |
|-----------------------------|----------|-------|--------|-------|---------|
| Bags & packaging material   | 2.15     | 2.25  | 1.40   | 1     | 1.7     |
| Transportation charges      | 2.50     | 3.59  | 5      | 6     | 4.27    |
| Loading & unloading charges | 2.50     | 2.50  | 2.50   | 2     | 2.37    |
| Commission charges          | 3.39     | 4     | 4      | 5     | 4.09    |
| Weighing charges            | -0-      | 2     | 2      | -0-   | 1       |
| Grading charges             | -0-      | 2     | 2      | -0-   | 1       |
| Other charges               | -0-      | 0.45  | -0-    | 0.25  | 0.35    |
| Total                       | 10.54    | 16.79 | 16.90  | 14.25 | 14.62   |

Table 3: Average expenditure incurred by the farmers in marketing of their crop produce (₹/qt)

farmers sold their produce to the other agencies, and very small proportion of farmers had opted Govt. agency to sale their paddy produce.

In case of large and medium farmers, 40% and 10% farmers had sold their produce to Govt. agency, respectively. More than 83 per cent of farmers were going to sell their farm produce to private agencies and little 16 percent farmers were adopting Govt. Market paces for disposing off their farm produce. It is very interesting that none of the marginal farmers were selling their produce to Govt. agency, though it is known fact that in India around 70 percent farmers are small and marginal, their share is very high but they are not getting place for marking in Govt. agencies due their small chunk of production. And this may one of the reason that farmers were not getting actual prices of their farm produce in the study area as we have discussed in previous section that farmers were getting less than MSP Price.

The percent of farmers who were visiting different places for selling their produce are presented in



the table 8 and it is revealed from the table that around 31.27 per cent of all the farmers went in local market/village market, which implies that majority of the farmers were thinking that local market is better for their crop produce, as per available resources and infrastructural facilities with them. 60 per cent of marginal and 30 percent of small farmers were disposing off their farm produce in Local village market, for avoiding transpiration and commission charges, which were levied on the farmers for transporting their farm produce from field to market yard. Medium and large farmers were taking advantages of primary and secondary market as 50 percent of medium and 70 percent of large farmers were selling their farm produce in primary and secondary market respectively.

### Marketing Constraints of Paddy Crop

Among the marketing problems, high cost of transportation appeared as the most important problem of sample farmers in the study area on account of which most of the farmers could not sell their product Pushpa and Srivastava

| Agency                | Marginal |     | Small |    | Medium |    | Large |    | Overall |       |
|-----------------------|----------|-----|-------|----|--------|----|-------|----|---------|-------|
|                       | No.      | %   | No.   | %  | No.    | %  | No.   | %  | No.     | %     |
| Govt. Agency          | -0-      | 0-  | 3     | 15 | 2      | 10 | 8     | 40 | 13      | 16.25 |
| Others/Private Agency | 20       | 100 | 17    | 85 | 18     | 90 | 12    | 60 | 67      | 83.75 |

#### Table 4: Distribution of farmers on the basis of Agency of sale for paddy crop

**Table 5:** Distribution of farmers on the basis of different place of sale for paddy crop

| Particulars                 | Farm size group |     |       |    |        |    |       |    |         |       |  |
|-----------------------------|-----------------|-----|-------|----|--------|----|-------|----|---------|-------|--|
| Place of sale               | Marginal        |     | Small |    | Medium |    | Large |    | Overall |       |  |
|                             | No.             | %   | No.   | %  | No.    | %  | No.   | %  | No.     | %     |  |
| Local market/village market | 12              | 60  | 6     | 30 | 5      | 25 | 2     | 10 | 35      | 31.27 |  |
| Primary market              | 8               | 40  | 7     | 35 | 10     | 50 | 4     | 20 | 29      | 36.2  |  |
| Secondary market            | -0-             | -0- | 7     | 35 | 5      | 25 | 14    | 70 | 26      | 32.5  |  |

Table 5: Marketing constraints faced by different categories of farmers

| Markatina                              | Marginal      |      | Small         |      | Medium        |      | Large         |      | Overall       |      |
|--|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|
| Problems                               | Mean<br>Score | Rank |
| Lack of suitable Market                | 50.55         | 7    | 57.3          | 3    | 65.2          | 2    | 59.2          | 44   | 59.3          | 2    |
| Buyer's monopoly                       | 54.7          | 5    | 50.15         | 7    | 69.2          | 1    | 47.9          | 6    | 58.62         | 4    |
| High cost of Transportation            | 72.35         | 1    | 69.75         | 1    | 56.5          | 3    | 66.2          | 1    | 66.1          | 1    |
| Lack of transportation Facilities      | 67.55         | 2    | 62.1          | 2    | 46            | 7    | 56.2          | 5    | 58.37         | 5    |
| Lack of price Information              | 57.9          | 4    | 52.5          | 5    | 45.9          | 8    | 63.7          | 2    | 53.72         | 6    |
| Lack of marketing agency               | 50.8          | 6    | 50.3          | 6    | 56.2          | 4    | 46.8          | 7    | 48.85         | 7    |
| Lack of co-operative marketing society | 34            | 8    | 32.8          | 9    | 46.5          | 6    | 43.1          | 8    | 38.72         | 8    |
| Storage facilities                     | 67.2          | 3    | 54.4          | 4    | 54.5          | 5    | 63.4          | 3    | 59.06         | 3    |
| Lack of grading of produce             | 18.95         | 10   | 24.5          | 10   | 26.8          | 10   | 38.8          | 10   | 24.66         | 10   |
| Lack of packaging material             | 33.15         | 9    | 34.5          | 8    | 33.5          | 9    | 34.7          | 9    | 33.97         | 9    |

in the regulated and other such markets where prices were high. In other words, high cost of transportation compelled the farmers to sell their produce through contractor. Lack of suitable market was also quite common which created a sense of feeling among farmers for organizing co-operative marketing society for the proper marketing of their crop produce and secure better prices for all the groups of farmers i.e. marginal, small, medium and large farmers. Lack of proper storage facility was found next most important marketing constraints experienced by the producer sellers. As it is discussed earlier most of the marginal and small farmers were going to sell their farm produce in local village market and to private agencies and the reason for their followed marketing pattern were lack of proper infrastructure and marketing administration, as farmers were paying high commission charges to middle men. And it is very surprising that now Govt. had banned the middlemen activities from the market yard, but still there are some places where these kind of activities are goingon.

Poor storage facility also compelled the farmers to sell their produce just after harvesting, when there was boom in the market and they were bound to accept low prices. Due to improper facility of transportation farmers sell their produce in village or local market and also forced to accept the prices whatever prevailed in the local market. Inadequate price information system appeared as the next most important marketing problem experienced by the producer sellers in the study area. Poor price information system also caused low price



to be accepted by the farmers and exploitation by contractors during the main production season of the crop. The table also reveals that, other marketing problems were of lesser importance in view of farmer's observations as, lack of marketing agency, lack of co-operative marketing society, lack of grading of produce and lack of packaging material.

### CONCLUSION

Due to improper infrastructural facilities farmers were forced to sale their crop produce in the local markets at lower prices. There was existence of distress sale on the marginal farms in all crop produces indicating they were forced to sell their crop produce without considering their on farm requirements due to some urgent financial requirement. Distress sale was found at the farm households of marginal and small farms to meet out their financial obligations. So proper financial support by the credit institutions at low interest may enable them to get the benefit of temporal price rise of the crops produce and protect them from distress sale. High cost of transportation opined as the most important problem by the farmers across the farm size groups. Lack of suitable market was also quite common problem which created a sense of feeling among farmers for organizing co-operative marketing society for the proper marketing of produce and to secure better prices for their crop produce. Poor storage facility also compelled the farmers to sell their produce just after harvesting. Monopoly of buyers/contractors was also quite common observation in the study area. Inadequate price information system was also found as an important marketing problem experienced by the producer-sellers in the study area.

The study suggests that farmers can increase their returns by organizing themselves into co-operatives and by improving marketing functions. Possibilities need be explored for linking smallholders to markets through such institutions as cooperatives; growers associations and contract farming that reduce marketing and transaction costs and also alleviate some technological constraints.

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