

Arrival and price behaviour of important pulse crops in Parbhani district

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ABSTRACT

Pulse crops occupied important place in Indian farm business. The study of arrivals and prices behaviour in APMC market Parbhani was carried out during the year 2004-05 to determine price index fluctuations for important pulse crops. The data on monthly arrivals and prices were for nine year (1996-97 to 2004-05) from record of APMC, Parbhani. The result revealed that greengram, the peak arrivals of greengram was in the month of October and the highest price index recorded was in the month of March. The price index touched to the lowest 83 per cent and to the peak value of 105 price index. Pigeonpea, the arrival index was the highest in the month of January whereas, the price index was highest in the month of September. the price index varies in the range of 93 to 107 per cent.

Key words : Arrivals, Prices, Pulse, Greengram, Pigeonpea and gram

INTRODUCTION

Agriculture in India is now moving in the World of globalization, liberalization and privatization. The population is increasing at a rapid rate leading to increase in demand for food and other consumer goods of which many have agricultural base. The price variations are common in agricultural commodity mainly because of seasonally in production and inter market arrivals India accounts for about 90 per cent of world production of pigeon pea in India during 2001-02 was 2.37 mt and area under pigeonpea was 3.46 million ha. Pigeon pea contains about 20.4 per cent protein, 1.6 per cent fat, 5.8 per cent carbohydrates and 67.7 per cent starch. It is consumed in the form of dhal or dehusked splits. Green gram commonly known as mung bean or golden beas is one of the most important short duration pulse crop grown in India. It is an excellent source of protein (25 per cent) with high quality of lysine and tryptophan. It is fast growing short duration leguminous crop with dense foliage, acts as resorber of physio-chemical properties of soil, it reduce the splash erosion as well as improves nitrogen content of soil. Seasonality in the arrivals and prices of the major commodities *i.e.* green gram, pigeonpea and gram was studied critically on the basis of seasonal average prices *viz.*, January to December and seasonal arrivals in the market yard. This was useful to understand this seasonal upward and downward swings in the arrivals and prices of selected three farm commodities *i.e.* greengram, pigeonpea and gram. Seasonal price variations resembles a cycle covered in the period of 12 month or less. The general pattern of seasonal variations in prices *i.e.* lower prices during the post harvest months and higher prices during the pre-harvest or off season months is a national future for food grains and is reported year after year. Therefore, it is necessary to study the fluctuations in the

monthly average prices of foodgrains in market, which help farmers to plan their sale. Considering this importance present study was undertaken with specific objectives are to estimate the fluctuations in market arrivals and prices of important crops, to identify the peak and slack periods of arrivals, and to examine the relationship between market arrivals and market prices of important crops.

MATERIALS AND METHODS

The study in based on time series data on arrivals and prices of major pulse commodities. The commodities selected were greengram, pigeonpea and gram. The data on market arrivals and wholesale prices of different pulse crops were collected from record of Agricultural Produce Market Committee (APMC) Parbhani. The data pertained to the period for nine years (1996-97 to 2004-05). The data were analysed in term of mean value for each month and coefficient of variation was computed to find out the degree of relationship between market arrivals and prices. The price indices was computed by method of ratio to month average for suitably of month to sale the produce in the market.

RESULTS AND DISCUSSION

Greengram:

The seasonal indices of arrivals and prices are presented in Table 1. As regards greengram the peak arrivals were observed in the month of October. Nearly more than one third of the produce is sold in the month of October.

The price for this month are less than the average. Out of total produce 90% of the produce is sold in the month of August to November. The prices fetched by the farmers during these months were near about the average

Table 1 : Average monthly arrivals and prices with seasonal indices of greengram for the period 1996-97 to 2004-05

Month	Arrival Index	Mean (qt/month)	CV (%)	Price Index	Mean (Rs/qt)	CV (%)
January	22.65	210.22	81.00	82.57	1297.66	37.91
February	13.04	121.31	94.93	101.39	1593.74	8.89
March	4.35	40.44	85.41	105.83	1663.22	8.29
April	59.06	29.33	175.24	103.84	1631.88	14.10
May	1.99	18.55	169.12	105.01	1650.33	12.40
June	0.65	6.11	116.69	103.52	1626.88	10.87
July	1.13	10.55	182.18	97.91	1385.80	38.35
August	249.98	2319.22	99.51	99.16	1538.33	13.33
September	198.06	1837.55	370.61	100.85	1584.88	10.85
October	450.18	4176.55	54.44	99.47	1563.22	12.29
November	179.03	1738.55	42.42	100.04	1572.22	11.43
December	64.38	625.22	104.21	100.35	1577.11	9.95
Total	1200	-	-	1200	-	-
Mean	100	-	-	100	-	-

price fetched during the entire year.

Pigeonpea:

Seasonal indices of arrival and prices of pigeonpea are depicted in Table 2. Data in table revealed that the 75% of the total arrivals of pigeonpea were distributed in the month of January to April.

The price index for the month of July, August, September and October was more than 100 and it was the highest in the month of September.

Gram:

The seasonal indices of arrival and prices of gram analyzed and presented in Table 3. Data in table revealed

that out of the total produce more than 80% arrivals are observed during the month of February to May. March and April were identified as the months of peak arrivals. The rice index for gram was less than 100 for the month of March and it was the highest in the month of September.

Conclusion:

The peak arrivals of greengram were in the month of October and the highest price index recorded was in the month of March. The price index touched to the lowest of 83 (January) and to the peak value of 105 price index. The arrival index was the highest in the month of January, whereas the price index was the highest in the

Table 2 : Average monthly arrivals and prices with seasonal indices of pigeonpea for the period 1996-97 to 2004-05

Month	Arrival index	Mean (qt/month)	CV (%)	Price index	Mean (Rs/qt)	CV (%)
January	276.21	985.22	90.89	95.21	1473.11	103.3
February	365.08	1302.22	57.31	97.31	1550.50	10.19
March	183.03	652.88	43.20	97.49	1508.4	12.45
April	212.16	756.77	95.49	93.05	1439.60	16.93
May	59.76	213.88	60.30	96.42	1491.7	13.57
June	38.90	138.77	87.10	101.10	1564.10	13.58
July	22.89	81.66	103.60	102.80	1588.77	17.12
August	15.04	53.66	97.18	102.94	1592.60	17.66
September	3.48	12.44	161.25	107.13	1615.7	14.25
October	5.83	20.80	235.70	102.78	1590.11	26.00
November	6.19	22.11	235.54	102.34	1583.30	25.00
December	11.14	39.77	93.58	95.44	1476.66	20.97
Total	1200	-	-	1200	-	-
Mean	100	-	-	100	-	-

Table 3 : Average monthly arrivals and prices with seasonal indices of gram for the period 1996-97 to 2004-05

Month	Arrival index	Mean (qt/month)	CV (%)	Price index	Mean (Rs/qt)	CV (%)
January	17.77	16.77	117.72	90.45	1203.33	26.84
February	193.66	182.66	100.43	94.78	1230.00	16.93
March	314.85	297.00	74.38	97.07	1270.00	20.69
April	365.31	344.60	79.00	100.37	1313.10	18.56
May	145.58	137.33	77.63	100.89	1320.11	21.97
June	63.72	60.11	94.74	96.15	1252.66	25.00
July	27.35	25.80	100.58	87.13	1140.00	36.82
August	28.02	26.44	157.22	106.94	1315.00	20.12
September	10.95	10.33	141.33	113.12	1480.00	22.95
October	11.30	10.66	122.98	106.13	1383.00	11.94
November	18.25	17.22	107.14	103.24	1298.00	29.45
December	9.41	9.41	157.70	103.36	1352.33	17.39
Total	1200	-	-	1200	-	-
Mean	100	-	-	100	-	-

month of September. The price index varied in the range of 93 (April) to 107. The peak arrivals of soybean were recorded in the month of October whereas price index was the highest in the month of July. The priced index recorded was as low as 77 (October) and as high as 115.

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