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## RESEARCH ARTICLE

### AN ECONOMIC EVALUATION OF MARKET ARRIVALS AND PRICES OF PULSES IN LATUR DISTRICT OF MAHARASHTRA STATE

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#### ABSTRACT

The study was conducted on the fluctuations in the monthly average prices of pulses in market of Latur district of Maharashtra. The Quantitative assessment of various data with respect to pulses by data from the Latur APMC. the data for marketing of major pulses pertaining to the time series analysis 15 years data were collected for period from 2000-2014. The study of market arrivals and prices indicated that the highest arrivals of chickpea were in the month of March, February, and April while Mung and urd bean are in the month of October and Tur in the month of February. Prices of chickpea, mung tur urd bean are maximum in the months of October, December, January, and September respectively

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## INTRODUCTION

India is the world's largest producer and the largest consumer of pulses. The pulses are unique crops as they have in-built mechanism to fix atmospheric nitrogen in their root nodules. They are also rich in protein and fit well in various cropping systems. India is a rare country which grows such a variety of pulse crops which none of the countries in the world grows. For majority of vegetarian population in India, pulses are the major source of protein. Pulses and pulse crop residues are also major sources of high quality livestock feed in India. India occupies Area, Production, and productivity of pulses about 23.47million hectares, 18.3 million tones, and 781 kg/ hectares respectively.

## MATERIALS AND METHODS

Latur district particularly Latur market of Marathwada region was selected purposively as an area under pulses for the study. In Latur APMC variety of pulses are marketed. The arrivals are from district area and also from around the areas adjacent to district market.

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The selected pulses of this region are chickpea, mung, tur, urdbean were considered for the present study. The period of 15 years (Jan 2000-Jan 2014) was covered to work out the relationship between arrivals and prices of important pulses and identify the peak periods in arrivals and prices.

## RESULTS AND DISCUSSION

The Increase in area and production of pulses cannot be sustained in less remunerative prices to the farmers and it is in this context, that an understanding of the pattern of market arrivals and price behaviour of pulses assume significant importance. With this background the present study was undertaken to gain insight into behaviour of market arrivals and prices of pulses in Latur district market.

### Seasonal Indices in Arrivals and Prices of Different Pulses

#### Chickpea

It is revealed from the analysis that, the maximum arrivals index was in the month of march i.e. 228.9 per cent followed by April and it was minimum (15.26 percent) in the month of December. The arrivals trend was decreased from Jan to December while reverse trend was observed in case of prices.

In case of prices, the index was maximum in the month of October i, e111.27 per cent, and minimum in the month of January (91.6 percent). The maximum arrivals of chick pea were in the month of March (47148.67q) and average price fetched was 2385.4Rs/q. The minimum arrivals were in month of December (3147.6q) and price fetched was 2626Rs/q. The highest average price fetched by chickpea was in the month of October 2835.8Rs/q. against quantity arrived was 5769.54q.

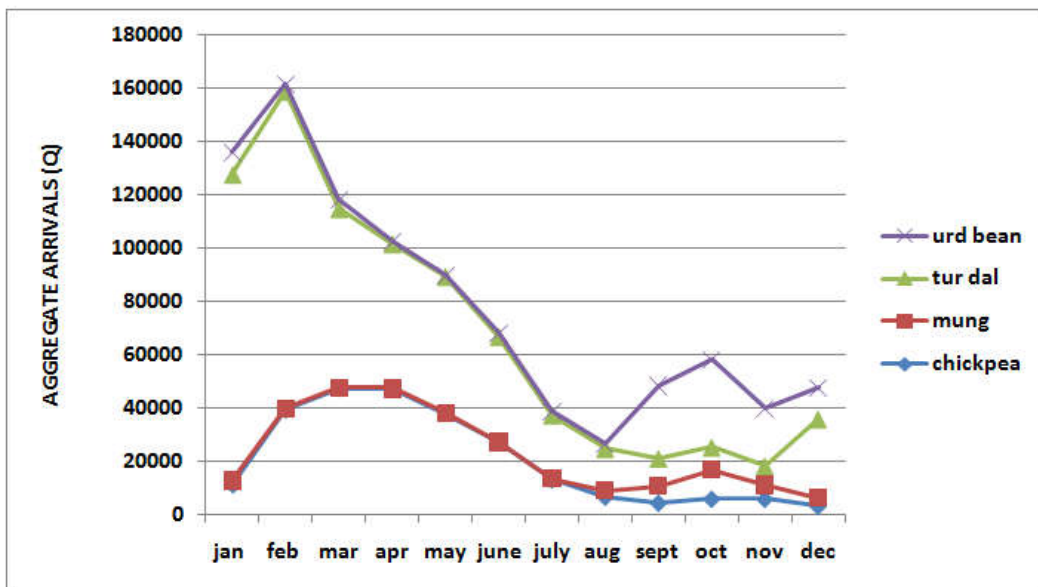
**Mung**

It is revealed from the analysis that, the maximum arrivals index was in the month of October i.e. 330.06 per cent followed by September and it was minimum (4.9 percent) in the month of April. In case of prices, the index was maximum in the month of December i, e107.4 per cent, and minimum in the month of February (93.6 percent).

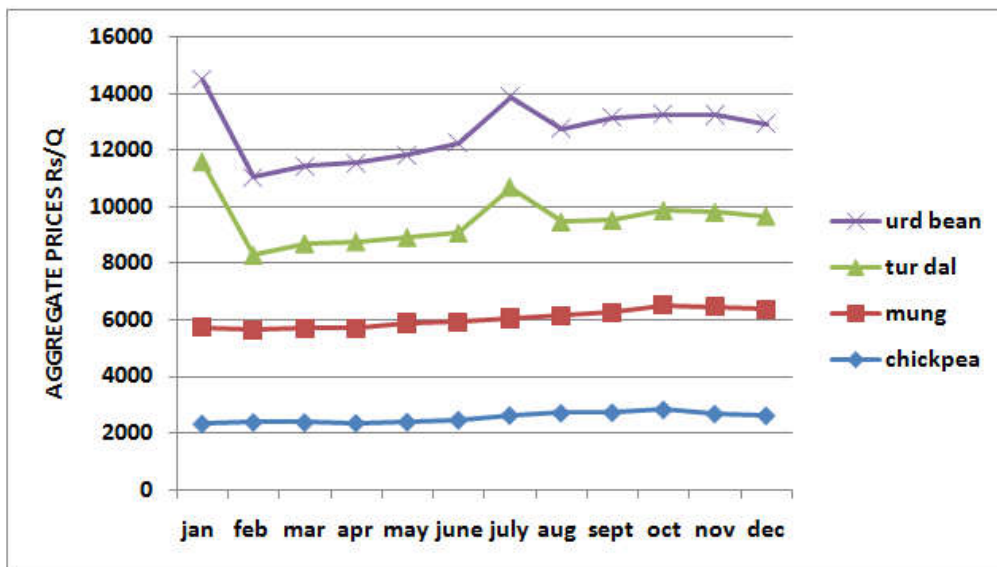
The maximum arrivals of Mung were in the month of October (10736.67q) and average price fetched was 3683.2Rs/q. The minimum arrivals were in month of June (205.2q) and price fetched was 3468.06Rs/q. The highest average price fetched by Mung was in the month of December 3749.667Rs/q. against quantity arrived was 2995.6q.

**Tur**

It is revealed from the analysis that, the maximum arrivals index was in the month of February i.e. 264.7 per cent followed by January and it was minimum (15.66 percent) in the month of November. The arrivals trend was decreased continuously from Jan to December while reverse trend was observed in case of prices. In case of prices, the index was maximum in the month of January i, e167 per cent, and minimum in the month of February (75.38 percent).



Peak and Trough in Arrivals of selected pulses during 2000-2014



Peak and trough in prices of selected pulses during 2000-2014

The maximum arrivals of Tur were in the month of February (119339.7q) and average price fetched was 2635.26Rs/q. The minimum arrivals were in month of November (7058.8q) and price fetched was 3345.133Rs/q. The highest average price fetched by Tur was in the month of January 5840.4Rs/q. against quantity arrived was 115120.7q.

### Urdbean

It is revealed from the analysis that, the maximum arrivals index was in the month of October i.e. 344.5 per cent followed by September and it was minimum (8.1 percent) in the month of may. In case of prices, the index was maximum in the month of September i, e116.1 per cent, and minimum in the month of February (88.25 percent). The maximum arrivals of urdbean were in the month of October (33281.2q) and average price fetched was 3401.133Rs/q. The minimum arrivals were in month of May (847.4q) and price fetched was 2907.133Rs/q. The highest average price fetched by urdbean was in the month of September 3632.73Rs/q. against quantity arrived was 27607.67q.

### Pattern of Market Arrivals and Price various Pulses in Latur district

#### Inter year variation in market arrivals and prices of different pulses

The pattern of arrivals of pulses and their coefficient of variation during months of period under study is presented in table 4.5. It is revealed that from the table inter year variation in market arrivals and prices of different pulses. The coefficient of variation between annual arrivals and prices of chick pea from the 2000-2014 shows 71.14 to 115.6 per cent and 1.01 to 29.36 percent respectively. The coefficient of variation between annual arrivals and prices of Mung from the 2000-2014 shows 21.86 to 220.23 per cent and 4.2 to 25.83 percent respectively. The coefficient of variation between annual arrivals and prices of Tur from the 2000-2014 shows 52.7 to 129.25 per cent and 4.8 to 157.5 percent respectively. The coefficient of variation between annual arrivals and prices of Urdbean from the 2000-2014 shows 118 to 175.14 per cent and 5 to 30.57 percent respectively.

#### Inter year variation in market arrivals and prices of different pulses

The pattern of arrivals of pulses and their coefficient of variation during months of period under study is presented in table 4.6. It is revealed that from the table intra year variation in market arrivals and prices of different pulses.

The coefficient of variation between annual arrivals and prices of chick pea throughout year from January to December was 70.63 to 103.9 percent and 31.65 to 42.63 percent respectively. The coefficient of variation between annual arrivals and prices of Mung throughout year from January to December was 61.38 to 138.7 percent and 48.37 to 61.38 percent respectively. The coefficient of variation between annual arrivals and prices of Tur throughout year from January to December was 44 to 123.166 percent and 41.9 to 199.3 percent respectively. The coefficient of variation between annual arrivals and prices of Urdbean throughout year from January to December was 64.4 to 283.5 percent and 40 to 53.53 percent respectively.

### Conclusion

The present study on market arrivals and prices of selected pulses in Latur district of Maharashtra was under taken to estimate the seasonal index of different pulses, inter and intra year variation of different pulses and peak and troughs in arrivals and prices of different pulses. The study of market arrivals and prices indicated that the highest arrivals of chickpea were in the month of March, February, and April while Mung and urd bean are in the month of October and tur in the month of February. Prices of chickpea, mung tur urd bean are maximum in the months of October, December, January, and September respectively. The arrivals of chickpea are lowest in the month of December, September, November. Similarly other pulses like mung, tur and urdbean arrivals are lowest in the months of June, November and may respectively. among all the pulses tur got highest price in the month of January.

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