

An Economic Analysis of Behaviour of Market Arrivals and Prices of Onion in Selected Markets of Western Maharashtra

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ABSTRACT: This study has been undertaken with the twin objectives of examining the variability pattern of market arrivals and prices of onion in selected markets of Maharashtra and analyzing the relationship between markets arrivals and prices. The study based on arrivals and prices of onion in selected markets collected from MSAMB and the respective monthly records of respective market for the period 2004-2013. The study has concluded that the extent of variability in market arrivals and prices of onion was lower in Pune, Lasalgaon and Yeola markets but higher in Ahmednagar, Pimpalgaon, Lonad, Kolhapur, Solapur, Dhule and Jalgaon market. Its indicate that, the arrivals of onion were more consistent in Pune, Pimpalgaon and Yeola market due to more consistency in prices of onion. These three markets are the important markets of onion in Western Maharashtra. The market integration study revealed that, almost all the markets were integrated with Pune, Lasalgaon and Yeola market indicating that these are the important markets of the region. The study has confirmed the negative relationship between market arrivals and prices of onion over the years in all markets. However, across different months, there have been several instances of positive relationship between market arrivals and prices.

JEL Classification: Q10, Q11, Q13.

Key Words: Onion, Market arrivals, Prices, Variability, Relationship

INTRODUCTION

The price fluctuation in agricultural commodities is a common phenomenon due to their seasonal nature of production, wide ecological imbalances compared to other crops and seasonal demand for agricultural commodities. Agriculture is characterized by wide variations in the output of crops which subsequently lead to larger variation in market arrivals. Fluctuations in market arrivals largely contribute to price instability and price fluctuations of agricultural commodities, there is need to have an understanding of the price behaviour over time. It is said that next to rains, prices are greatest enemy of the farmer. As per price theory, prices are a function of demand and supply [3].

Agriculture is the backbone of the Indian economy but, in real terms the farmer does not get proper returns from his investment. The variation in prices of agriculture commodities has been one of the major factors affecting the income levels of the Indian farmers. The knowledge on the interrelations between

the arrivals and prices of farm product is required for assessing the extent of price fluctuations over time. The analysis of arrivals and prices over time is important for formulating a sound agricultural price policy. Abnormally, low prices may reduce the input application because of lower financial condition of farmers and will result in low production and ultimately the low market arrivals. Due to the fluctuations in agriculture prices, there is instability in income of the farmers, which results in instability in agricultural investment. Thus, to stabilize the agriculture industry there is a need to stabilize the agricultural prices.

The variation in the output of the onion leads to wild fluctuations in their prices, exposing the vegetable growers to more risk as compare to the growers of other crops. The lack of intelligence about the potential markets and the pattern of market arrivals and prices in important regional and national markets further add to the woes of the farmers. The

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availability of market intelligence on aspects like the potential markets, the quantum of market arrivals and prevailing and expected prices in different regional, national and international markets during different months of the year shall go a long way in mitigating many of these problems [6].

Keeping the above- mentioned facts and the importance, the present topic entitled "An economic study of behaviour of market arrivals and prices of onion in selected markets of Maharashtra" has been taken examine the pattern of market arrivals and prices of onion in terms of the degree of variability in selected markets.

METHODOLOGY

The study is based on secondary data of ten years. The data on market arrivals and prices of onion of the selected markets collected from MSAMB and the respective monthly records of respective market for the period 2004-2013 and included monthly information also. The pattern of market arrivals and price behaviour of onion over period of 2004-2013 was analysed to compute the degree of relationship between market arrivals and prices. The correlation coefficient and coefficient of variation (C.V.) was estimated for analyzing the data.

RUSULT OF DATA ANALYSIS

The findings of the present study as well as the relevant discussion have been presented under the following heads:

Variability in Market arrivals and prices of onion

Seasonal fluctuations is a well known feature of agriculture and also prices. Knowledge of the seasonal swings of regional differences will arm on against misleading interpretations which are likely to be interpreted as prices taking a downward trends vice-versa. To safeguard against such misleading, interpretations, knowledge of the pattern and extent of seasonal swings in prices is essential [1].

The collected data on market arrivals and prices were analyzed with the help of statistical tools. Computed Correlation Coefficient and Coefficient of Variation in arrivals and prices of onion from the selected markets of Western Maharashtra. Market findings emerged thereof are presented in detail and discussed here.

The results of study are presented in the following sections,

- (a) Inter year coefficient of variation in arrivals and prices of onion

- (b) Intra year coefficient of variation in arrivals and prices of onion
- (c) Correlation between arrivals and prices of onion

Coefficient of Variation

The monthly indices give the general trend and distribution of arrivals. However, it does not indicate the quantum of the total arrival in market. Hence monthly Coefficient of Variation (CV) for arrivals and prices of onion was calculated and discussed in this section.

The variability in the arrivals and prices of onion in selected markets of different districts of western Maharashtra during 2004 to 2013 in different years and months was estimated by using statistical tool like coefficient of variation and the results are presented in Table 2.1.

(a) Inter year coefficient of variation in arrivals and prices

Marketwise monthly variability in the arrivals and prices of onion in selected markets of Western Maharashtra region (2004-2013).

The variability in the arrivals and prices of onion in selected markets of Western Maharashtra region during 2004 to 2013 in different months was estimated by using statistical tool like coefficient of variation and the results are presented.

i. Ahmednagar market

The variability in arrivals and prices of onion was minimum in the month of June (48.83 per cent) for arrivals and for prices in the month of April (41.56 per cent). The maximum variability in arrivals was observed in the month of April (165.75 per cent) and for prices it was observed in the month of September (105.37 per cent). The fluctuations in arrivals were more than the prices of onion during the above period in Ahmednagar market.

ii. Yeola market

The fluctuations in prices were more than the arrivals of onion during the above period in Yeola market. The minimum variability in arrivals was observed in the month of March i.e. 40.10 per cent and for prices it was observed in the month of April (46.13 per cent). The maximum variability was observed in the month of February i.e. 102.41 per cent for arrivals and for prices during September (113.66 per cent).

iii. Lasalgaon market

The variability in arrivals and prices of onion was minimum in the month of March (17.51 per cent) for arrivals and for prices in the month of April (49.02 per cent). The maximum variability in arrivals was observed in the month of October (118.66 per cent) and for prices it was observed in the month of September (98.08 per cent). The fluctuations in arrivals were more than the prices of onion during the above period in Lasalgaon market.

iv. Pimpalgaon market

The fluctuations in prices were more than the arrivals of onion during the above period in Pimpalgaon market. The minimum variability in arrivals was observed in the month of June i.e. 28.30 per cent and for prices it was observed in the month of April (37.93 per cent). The maximum variability was observed in the month of September i.e. 79.43 per cent for arrivals and for prices during July (189.51 per cent).

v. Pune market

The variability in arrivals and prices of onion was minimum in the month of January (16.48 per cent) for arrivals and for prices in the month of April (36.78 per cent). The maximum variability in arrivals was observed in the month of September (93.70 per cent) and for prices it was observed in the month of February (44.04 per cent). The fluctuations in prices were more than the arrivals of onion during the above period in Pune market [5].

vi. Lonand market

The fluctuations in arrivals were more than the prices of onion during the above period in Lonand market. The minimum variability in arrivals was observed in the month of March i.e. 40.94 per cent and for prices it was observed in the month of March (50.05 per cent). The maximum variability was observed in the month of June i.e. 145.67 per cent for arrivals and for prices during September (1000.39 per cent).

vi. Kolhapur market

The variability in arrivals and prices of onion was minimum in the month of March (30.58 per cent) for arrivals and for prices in the month of March (53.20 per cent). The maximum variability in arrivals was observed in the month of September (189.61 per cent) and for prices it was observed in the month of September (110.76 per cent). The

fluctuations in arrivals were more than the prices of onion during the above period in Kolhapur market.

vii. Solapur market

The fluctuations in the arrivals were more than prices of onion during the above period in Solapur market. The minimum variability in arrivals was observed in the month of May i.e. 47.00 per cent and for prices it was observed in the month of April (48.07 per cent). The maximum variability was observed in the month of August i.e. 186.15 per cent for arrivals and for prices during September (87.75 per cent).

ix. Dhule market

The variability in arrivals and prices of onion was minimum in the month of January (34.36 per cent) for arrivals and for prices in the month of March (51.52 per cent). The maximum variability in arrivals was observed in the month of December (130.24 per cent) and for prices it was observed in the month of September (113.81 per cent). The fluctuations in arrivals were more than the prices of onion during the above period in Dhule market.

x. Jalgaon market

The fluctuations in arrivals were more than the prices arrivals of onion during the above period in Jalgaon market. The minimum variability in arrivals was observed in the month of October i.e. 15.59 per cent and for prices it was observed in the month of May (44.27 per cent). The maximum variability was observed in the month of February i.e. 115.23 per cent for arrivals and for prices during September (111.61 per cent).

(b) Intra year coefficient of variation in arrivals and prices

Marketwise annual variability in the arrivals and prices of onion in selected markets of Western Maharashtra region (2004-2013).

i. Ahmednagar market

The variability in arrivals and prices of onion was minimum in 2009 (32.60 per cent) for arrivals and for prices in 2004 (34.21 per cent). The maximum variability in arrivals was observed in 2007 (165.76 per cent) and for prices it was observed in 2010 (76.95 per cent). The fluctuations in arrivals were more than the prices of onion during the above period in Ahmednagar market.

ii. Yeola market

The fluctuations in prices were more than the arrivals of onion during the above period in Yeola market. The minimum variability in arrivals was observed in 2006 i.e. 46.85 per cent and for prices it was observed in 2004 (39.15 per cent). The maximum variability was observed in 2013 i.e. 111.32 per cent for arrivals and for prices during 2005 (70.87 per cent).

iii. Lasalgaon market

The variability in arrivals and prices of onion was minimum in 2011 (24.73 per cent) for arrivals and for prices in 2004 (36.56 per cent). The maximum variability in arrivals was observed in 2005 (76.30 per cent) and for prices it was observed in 2005 (72.71 per cent). The fluctuations in arrivals were more than the prices of onion during the above period in Lasalgaon market.

iv. Pimpalgaon market

The fluctuations in prices were more than the arrivals of onion during the above period in Yeola market. The minimum variability in arrivals was observed in 2010 i.e. 24.00 per cent and for prices it was observed in 2004 (35.70 per cent). The maximum variability was observed in 2007 i.e. 65.57 per cent for arrivals and for prices during 2013 (89.79 per cent).

v. Pune market

The variability in arrivals and prices of onion was minimum in 2006 (32.52 per cent) for arrivals and for prices in 2004 (24.31 per cent). The maximum variability in arrivals was observed in 2012 (62.59 per cent) and for prices it was observed in 2010 (64.56 per cent). The fluctuations in prices were more than the arrivals of onion during the above period in Pune market [7].

vi. Lonand market

The fluctuations in arrivals were more than the prices of onion during the above period in Lonand market. The minimum variability in arrivals was observed in 2004 i.e. 83.23 per cent and for prices it was observed in 2007 (29.50 per cent). The maximum variability was observed in 2012 i.e. 155.39 per cent for arrivals and for prices during 2010 (66.80 per cent).

vi. Kolhapur market

The variability in arrivals and prices of onion was minimum in 2004 (28.64 per cent) for arrivals and

for prices in 2004 (21.96 per cent). The maximum variability in arrivals was observed in 2013 (88.96 per cent) and for prices it was observed in 2011 (66.10 per cent). The fluctuations in arrivals were more than the prices of onion during the above period in Kolhapur market.

vii. Solapur market

The fluctuations in arrivals were more than the prices of onion during the above period in Solapur market. The minimum variability in arrivals was observed in 2005 i.e. 40.81 per cent and for prices it was observed in 2007 (28.59 per cent). The maximum variability was observed in 2004 i.e. 148.95 per cent for arrivals and for prices during 2008 (57.61 per cent).

ix. Dhule market

The variability in arrivals and prices of onion was minimum in 2012 (23.23 per cent) for arrivals and for prices in 2004 (38.04 per cent). The maximum variability in arrivals was observed in 2013 (117.22 per cent) and for prices it was observed in 2005 (70.51 per cent). The fluctuations in arrivals were more than the prices of onion during the above period in Dhule market.

x. Jalgaon market

The fluctuations in arrivals were more than the prices of onion during the above period in Jalgaon market. The minimum variability in arrivals was observed in 2005 i.e. 52.13 per cent and for prices it was observed in 2006 (29.80 per cent). The maximum variability was observed in 2007 i.e. 101.35 per cent for arrivals and for prices during 2005 (59.89 per cent).

Relationships between arrivals and prices of onion in selected markets of Western Maharashtra

The selected correlation coefficient between arrivals and prices of onion in wholesale markets are presented in Table 1.3 and 1.4. The results of the study have confirmed the negative relationship between market arrivals and prices in terms of correlation coefficients over the years and across months in all the selected markets in Western Maharashtra, It means that as the arrivals of these vegetable in the market goes on increasing, the prices were goes on decreasing and vice versa. Though there were several instances of positive relationship which means that the prices were directly related to the arrivals of onion in selected markets of Western Maharashtra.

Table 1.1
Inter Year Coefficient of variation of arrivals and prices of onion in selected markets of Western Maharashtra Region (2004 to 2013)

Sr. No.	Month	1. Ahmednagar		2. Yeola		3. Lasalgaon		4. Pimpalgaon		5. Pune	
		Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)
1	Jan	64.64	84.97	58.02	74.08	23.74	74.69	29.30	71.17	16.48	71.75
2	Feb	64.36	49.25	102.41	64.57	40.41	61.64	43.01	60.51	44.04	50.13
3	Mar	82.30	45.29	40.11	56.35	17.52	60.51	44.35	50.08	19.21	41.30
4	Apr	165.76	41.56	48.21	46.14	26.94	49.03	39.35	37.94	29.47	36.78
5	May	54.01	47.79	50.19	54.47	27.36	49.96	41.35	45.04	24.71	41.22
6	Jun	48.84	47.67	45.94	60.00	33.69	56.64	28.39	51.72	38.27	46.85
7	Jul	58.86	53.52	46.29	73.34	40.35	74.45	32.72	189.51	22.34	53.89
8	Aug	55.76	69.42	54.21	99.34	30.44	98.77	32.12	87.53	26.53	91.53
9	Sep	63.99	105.37	48.00	113.66	47.25	98.09	79.43	107.61	26.07	93.70
10	Oct	93.52	81.97	67.61	92.71	118.67	90.15	62.29	89.76	25.01	81.70
11	Nov	56.28	58.19	65.60	65.47	35.09	68.79	48.64	76.75	34.01	58.70
12	Dec	52.90	77.49	65.89	57.81	29.80	60.47	42.45	64.95	31.59	75.91

Sr. No.	Month	6. Lonand		7. Kolhapur		8. Solapur		9. Dhule		10. Jalgaon	
		Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)
1	Jan	54.62	72.03	49.42	85.47	78.29	64.10	34.36	77.68	79.81	73.69
2	Feb	50.06	54.57	65.35	62.23	101.05	63.58	41.16	57.75	115.24	61.73
3	Mar	40.95	50.06	30.58	53.21	68.71	55.08	47.63	51.52	45.85	48.34
4	Apr	50.15	65.92	46.11	46.32	52.39	48.07	71.39	57.78	61.51	51.77
5	May	73.25	58.63	45.95	55.94	47.00	50.39	63.48	58.42	69.24	44.28
6	Jun	145.67	61.78	37.15	62.62	51.31	58.61	65.48	62.93	45.69	57.24
7	Jul	120.86	70.25	31.59	81.32	42.52	76.29	58.77	74.99	57.89	73.27
8	Aug	96.21	95.88	26.84	106.36	186.16	85.41	61.33	95.42	52.15	97.96
9	Sep	112.86	100.39	189.62	110.76	47.34	87.16	73.26	113.82	55.26	111.62
10	Oct	87.40	82.77	50.56	95.39	61.67	87.75	69.09	73.47	15.60	75.20
11	Nov	67.96	56.44	47.79	89.61	72.86	73.86	54.68	66.13	40.76	58.21
12	Dec	55.73	74.38	61.44	88.35	69.86	52.26	130.25	61.27	48.08	55.75

Table 1.2
Intra Year Coefficient of variation of arrivals and prices of onion in selected markets of Western Maharashtra Region (2004 to 2013)

Sr. No.	Year	1. Ahmednagar		2. Yeola		3. Lasalgaon		4. Pimpalgaon		5. Pune	
		Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)
1	2004	97.32	34.21	52.63	39.15	31.17	36.57	39.27	35.71	51.41	24.31
2	2005	63.17	60.31	73.55	70.87	76.31	72.71	58.44	67.57	35.11	57.54
3	2006	47.43	42.86	46.86	44.12	27.92	44.75	25.00	43.23	32.53	43.64
4	2007	165.76	43.21	63.40	38.46	47.50	39.00	65.58	40.35	55.00	34.00
5	2008	37.99	53.06	73.70	56.46	62.68	55.38	34.31	54.49	40.71	57.45
6	2009	32.61	50.57	45.25	42.35	28.86	42.21	47.45	42.17	36.34	48.27
7	2010	44.41	76.95	68.75	58.61	35.25	51.03	24.99	63.78	34.38	64.57
8	2011	45.08	63.17	51.90	61.35	24.74	59.65	33.66	54.96	34.82	55.45
9	2012	40.12	56.81	111.32	50.29	41.82	48.34	44.48	54.50	62.60	42.67
10	2013	58.44	67.05	80.76	66.52	61.94	59.45	65.26	89.79	46.56	64.28

Sr. No.	Year	6. Lonand		7. Kolhapur		8. Solapur		9. Dhule		10. Jalgaon	
		Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)	Arrivals C.V. (%)	Prices C.V. (%)
1	2004	83.23	38.31	28.64	21.97	148.95	39.37	78.15	38.05	70.36	34.36
2	2005	107.96	56.49	49.28	37.25	40.82	45.29	63.39	70.51	52.13	59.89
3	2006	106.14	38.96	29.63	42.55	75.14	34.89	72.30	50.71	69.82	29.80
4	2007	94.67	29.06	30.32	22.98	65.31	28.59	67.04	33.58	101.36	33.49
5	2008	111.40	50.85	145.82	44.67	144.96	57.63	49.82	65.48	64.92	53.83
6	2009	105.14	38.00	37.77	48.18	45.50	32.74	44.32	38.47	79.47	24.15
7	2010	154.23	66.80	52.93	61.78	47.68	46.85	35.93	59.03	61.72	45.58
8	2011	117.80	59.47	42.22	66.10	57.17	53.96	66.05	63.32	93.25	51.69
9	2012	155.39	45.63	64.11	38.59	96.07	48.44	23.24	51.40	98.16	42.91
10	2013	97.52	47.36	88.96	54.06	83.27	46.60	117.23	59.80	75.79	56.60

Table 1.3
Inter Year Correlation of arrivals and prices of onion in selected markets of Western Maharashtra Region (2004 to 2013)

Sr. No.	Market Month	Ahmednagar CC	Yeola CC	Pune CC	Lasalgaon CC	Pimpalgaon CC	Lonand CC	Kolhapur CC	Dhule CC	Solapur CC	Jalgaon CC
1	Jan	0.14	-0.41**	-0.09	-0.61**	-0.77***	-0.67***	-0.20	-0.07	0.05	-0.11
2	Feb	0.35	-0.50**	-0.13	-0.47**	-0.57**	-0.31	-0.07	0.39	0.27	-0.28
3	Mar	0.42**	0.19	0.11	0.23	0.10	-0.18	0.35	0.60**	0.45**	0.38
4	Apr	0.40**	0.26	-0.09	0.08	0.17	-0.24	0.18	0.91**/*	-0.04	0.29
5	May	0.31	-0.31	-0.41**	-0.44**	-0.14	-0.50	0.33	0.48**	0.25	-0.14
6	Jun	0.02	0.03	-0.63**	-0.39	0.00	-0.32	0.54**	0.43**	-0.09	-0.23
7	Jul	-0.33	0.12	-0.18	-0.08	0.03	-0.38	0.63**	0.35	0.02	-0.17
8	Aug	-0.40**	-0.29	-0.25	-0.68***	-0.52**	-0.46	-0.74***	-0.28	-0.15	-0.36
9	Sep	0.15	-0.43**	-0.75***	-0.58**	-0.40**	-0.25	-0.21	-0.25	0.32	-0.37
10	Oct	-0.15	-0.43**	-0.01	-0.16	-0.52**	0.02	-0.77***	0.95***	0.76***	0.49**
11	Nov	0.16	-0.28	0.19	-0.07	-0.38	-0.40	-0.75***	0.35	0.88***	-0.09
12	Dec	-0.20	0.79***	0.25	-0.33	-0.27	-0.63	-0.68***	0.33	0.54	0.22

Table 1.4
Intra Year Correlation of arrivals and prices of onion in selected markets of Western Maharashtra Region (2004 to 2013)

	1 Ahmednagar	2 Yeola	3 Pune	4 Lasalgaon	5 Pimpalgaon	6 Lonand	7 Kolhapur	8 Dhule	9 Solapur	10 Jalgaon
2004	-0.05	0.53**	0.71***	0.36	0.17	0.55**	0.17	0.01	0.12	-0.18
2005	-0.61**	-0.67***	-0.97***	0.30	-0.79***	-0.41**	-0.72***	0.22	-0.65***	0.03
2006	0.09	-0.37	-0.66***	-0.14	0.05	-0.10	-0.55**	0.26	-0.52**	0.46**
2007	-0.42**	-0.40**	-0.32	-0.52**	-0.33	-0.01	-0.52**	-0.28	-0.53**	-0.48**
2008	0.30	-0.63**	-0.45**	-0.24	-0.44**	-0.25	0.03	-0.58**	0.23	-0.21
2009	0.37	-0.46**	0.25	-0.12	-0.63***	0.16	-0.46**	0.23	0.70***	0.51**
2010	-0.47**	0.10	-0.08	0.05	-0.80***	-0.14	-0.64***	0.12	-0.11	0.42**
2011	0.04	-0.38	0.03	-0.17	-0.15	-0.29	-0.54**	-0.01	-0.03	0.13
2012	-0.55**	-0.35	-0.58**	-0.07	-0.35	-0.40**	-0.69***	-0.40**	0.09	0.09
2013	-0.31	-0.53**	-0.73***	-0.78	-0.43**	-0.53**	-0.98***	-0.35	-0.23	-0.51**
2004-13	-0.03	-0.18	-0.22	-0.27	-0.27	-0.19	-0.23	0.15	0.17	-0.01

Table 1.5
Correlation between arrivals and prices of onion in selected markets of Western Maharashtra (2004-2013)

Sr. No.	Markets	Ahmednagar	Yeola	Pune	Lasalgaon	Pimpalgaon	Lonand	Kolhapur	Dhule	Solapur	Jalgaon
1	Ahmednagar	1									
2	Yeola	0.87	1								
3	Pune	0.92	0.95	1							
4	Lasalgaon	0.87	0.97	0.96	1						
5	Pimpalgaon	0.70	0.79	0.75	0.79	1					
6	Lonand	0.87	0.94	0.96	0.95	0.78	1				
7	Kolhapur	0.83	0.90	0.93	0.93	0.75	0.93	1			
8	Dhule	0.87	0.96	0.96	0.97	0.79	0.96	0.94	1		
9	Solapur	0.82	0.93	0.92	0.95	0.83	0.94	0.93	0.95	1	
10	Jalgaon	0.84	0.96	0.94	0.96	0.79	0.95	0.93	0.98	0.95	1

CONCLUSION

The study has concluded that the extent of variability in market arrivals of onion was lower in Pune, Lasalgaon and Yeola markets but higher in Ahmednagar, Pimpalgaon, Lonad, Kolhapur, Solapur, Dhule and Jalgaon market. Its prices variability was lower in Ahmednagar, Lasalgaon, Lonad, Kolhapur, Solapur, Dhule and Jalgaon market but higher in Pune, Pimpalgaon and Yeola market [4]. The study has confirmed the negative relationship between market arrivals and prices of onion over the years in all markets. However, across different months, there have been several instances of positive relationship between

market arrivals and prices in market. There are three important markets viz; Pune, Lasalgaon and Yeola market of onion. Almost all the markets in Western Maharashtra integrated with these three markets because the arrivals and prices were more consistent in Pune, Yeola Lasalgaon market for onion crop [2].

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