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Price analysis of selected agricultural commodities in Ahmednagar APMC

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Abstract

Ahmednagar APMC is selected for present studies. In Ahmednagar market arrivals of different agricultural products are in good quantity as compared to other markets. This market was selected due to the availability of continuous time series data for the research period. Five agricultural commodities are selected for present study i.e. from the sorghum, Tur, Soybean, Chickpea and Bajra. It was intended to collect for 12 years data from Ahmednagar APMC for selected agricultural commodities (2005-06 to 2016-17). In Ahmednagar APMC Inter-year index number of sorghum, Tur, Soybean, Chickpea and Bajra showed that the highest arrival as well as prices variation occurred from to base year. In intra-year arrival index number of Sorghum was found highest in the month of March and February to April. As regard, the highest price index of sorghum was observed in the month of February to March. Intra-year arrival index number of soybean was found highest in the month of September to December. As regard, the highest price index of soybean was observed in the month of October to December. Intra-year arrival index number of chickpea was found highest in the month of February to March. Intra-year arrival index number of Bajra was found highest in the month of October to December.

Keywords: Arrival, prices, inter year variation and intra year variation

1. Introduction

The APMCs were established by state government for regulating the marketing of different kinds of agricultural produce. The market information relating to market prices and arrivals over a period of time helps the cereal growers to take decision about the future production pattern and sale of agricultural commodities in the market during specific period. In Maharashtra state crop are generally marketed in regulated markets. These regulated markets are called as Agriculture produce market committee's to help the farmer in disposing of their produce in the market smoothly by reducing the exploitation levels and to promote faire trade by providing various infrastructure facilities in the market regulation act come into existence. Since independence, almost all the states have enacted APMC Acts empowering them to regulate the trade of agricultural commodities. It is necessary to study the role played by regulated markets to sustain the agribusiness in India, Maharashtra and particularly in Western Maharashtra region.

The price of agricultural commodities assumes great significance from producer's as well as consumer's point of view. It is said that prices are mirror of economy of the country. The purpose of the present study is to examine the behaviour of fluctuations in prices and arrivals of Sorghum, Tur, Soybean, Chickpea and Bajra which are selected for study in APMC market in of Ahmednagar APMC.

2. Methodology

The data in respect of arrivals and prices were collected from this record maintained by Agriculture Produce Market Committees (APMC) of Ahmednagar. The monthly arrival and prices of selected agricultural commodities was recorded by market committee (APMC) of Ahmednagar and the same was used for this study. Five samples of producer, wholesaler and retailer selected markets and the information for the last 12 years (2005-06 to 2016-17) were collected by personally contacting them.

3. Analytical tools**3.1 Coefficient of variation**

Coefficient of variation is the ratio between the standard deviation and mean. It is usually represented by percentage. It measures the deviation of data about its arithmetic mean. Coefficient of variation in arrivals and prices were computed for selected agricultural

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commodities between years and within years so as to see the variation and predict the behaviour of arrivals and prices whether they are stable involving less risk and uncertainty and vice-versa. Coefficient of variation was computed by using following formula.

$$\text{Coefficient of variation (\%)} = \frac{\text{Standard deviation}}{\text{Mean}} \times 100$$

3.2 Arrival and price Index number

Index number is a device which is used to measure the combined fluctuation in a group of series. The index numbers was calculated by taking triennium average as a base year quantity and by eliminating irregular, cyclical seasonal fluctuation by applying suitable method like mean average, ratio to trend. Index number of arrival and price were calculated as follows.

$$I_{pt} = \frac{P_t}{P_{t_0}} \times 100$$

4. Results and discussion

4.1 Inter-year arrival and price trend of Sorghum, Tur, Soybean, Chickpea and Bajra in the Ahmednagar APMC over a period from 2005-06 to 2016-17

4.1.1 Inter-year arrival and price behaviour of Sorghum

The trend of arrival and price behaviour over a period is represented in Table-1. It shows that 12 years period, where arrival was fluctuating year to year. Maximum arrival of Sorghum was 4942.33 qt. in 2014-15, followed by 4780.66 qt. in 2010-11. Minimum was 1444.58 qt. in 2012-13. When arrival trend for the period was observed, it was fluctuate slowly in increasing trend as well as in decreasing trend year to year. It moved highest of 139.22 per cent over base year during 2014-16.

In Ahmednagar market per quintal price of Sorghum was increased from Rs. 822.75 in 2005-06 to as high as Rs. 2196.83 in 2016-17. Price index exhibited increasing trend and reached 214.26 per cent over a period of 12 years. The arrival trend for same period, it is observed that the trend of arrival shows increasing and decreasing trend in entire period. It moved up to 107.96 per cent over base period of 12 years.

Table 1: Inter-year arrival and price behaviour of Sorghum in APMC Ahmednagar

Year	Arrival			Prices		
	Mean	CV	Index No.	Mean	CV	Index No.
2005-06	2953.16	45.420	83.18	822.75	5.30	80.24
2006-07	4023.16	35.20	113.32	875.91	6.78	85.42
2007-08	3673.66	44.22	103.48	1377.25	14.78	134.32
2008-09	3638.75	30.98	102.5	1419.33	30.48	138.43
2009-10	4400.75	62.90	123.96	1175.16	4.28	114.61
2010-11	4780.66	40.12	134.66	1521.58	24.51	148.40
2011-12	1930.5	39.85	54.38	2664	11.96	259.82
2012-13	1444.58	34.53	40.69	1981.75	11.16	193.28
2013-14	2462.25	108.36	69.35	2007.08	6.34	195.75
2014-15	4942.33	116.40	139.22	2226.83	8.92	217.18
2015-16	4776.75	62.08	134.55	2053.51	5.34	200.32
2016-17	3832.66	67.96	107.96	2196.83	3.12	214.26

(Note 1: Above Mentioned mean prices is mean over 12 months of the year
2: Source of data APMC of Ahmednagar)

4.1.2 Inter-year arrival and price behaviour of Tur

The trend of arrival and price behaviour over a period is represented in Table-2. It shows that 12 years period where

arrival was fluctuating year to year. Maximum arrival of Tur was 1543.08 qt. in 2010-11, followed by 1140.25 qt. in 2016-17 and minimum was 331.16 qt. in 2013-14. When arrival trend for the period was observed, it was fluctuate slowly in increasing trend as well as in decreasing trend year to year. It moved highest of 229.58 per cent over base year during 2010-11.

Per quintal price of Tur in Ahmednagar market increased from Rs. 1622.25 in 2005-06 to as high as Rs. 5795.83 in 2016-17. Price index exhibited increasing trend and reached 342.66 per cent over a period of 12 years. The arrival trend for same period, it is observed that the trend of arrival shows increasing and decreasing trend in entire period. It moved up to 169.65 per cent over base period of 12 years.

Table 2: Inter-year arrival and price behaviour of Tur in APMC Ahmednagar

Year	Arrival			Prices		
	Mean	CV	Index No.	Mean	CV	Index No.
2005-06	678	115.16	100.87	1622.25	3.86	95.91
2006-07	741	139.09	110.24	1512.41	47.73	89.41
2007-08	597.33	97.69	88.87	1939.58	49.97	114.67
2008-09	461.33	68.05	68.63	2624.75	12.52	155.18
2009-10	784.33	153.78	116.69	3354.16	34.16	198.30
2010-11	1543.08	128.73	229.58	3451	9.46	204.03
2011-12	1026.08	140.55	152.66	2466.66	60.75	145.83
2012-13	599.16	74.91	89.14	3653.08	6.66	215.97
2013-14	331.16	153.68	49.34	2464.58	75.50	145.71
2014-15	678.91	121.20	101.01	4194.75	20.88	248.00
2015-16	317.25	93.62	47.20	6514.58	23.15	385.15
2016-17	1140.25	139.96	169.65	5795.83	24.52	342.66

(Note 1: Above Mentioned mean prices is mean over 12 months of the year
2: Source of data APMC of Ahmednagar)

4.1.3 Inter-year arrival and price behaviour of Soybean

The trend of arrival and price behaviour over a period is represented in Table-3. It was observed that maximum arrival of Soybean was 2459.41 qt. in 2016-17, followed by 1690.91 qt. in 2013-14 and minimum was 3.41 qt. in 2005-06. When arrival trend for the period was observed, it was fluctuate slowly in increasing trend as well as in decreasing trend year to year. It moved highest of 2471.77 per cent over base year during 2016-17. Per quintal price of Soybean in Ahmednagar market increased from Rs. 94.75 in 2005-06 to as high as Rs. 2714.58 in 2016-17. Price index exhibited increasing trend and reached 361.18 per cent over a period of 12 years. The arrival trend for same period, it is observed that the trend of arrival shows increasing and decreasing trend in entire period. It moved up to 2471.77 per cent over base period of 12 years.

Table 3: Inter-year arrival and price behaviour of Soybean in APMC Ahmednagar

Year	Arrival			Prices		
	Mean	CV	Index No.	Mean	CV	Index No.
2005-06	3.41	346.41	3.43	94.75	346.41	12.61
2006-07	76.83	116.98	77.21	1172.58	32.41	156.02
2007-08	218.25	292.60	219.34	987.42	90.19	131.38
2008-09	90.58	155.23	91.03	2139.92	15.88	284.72
2009-10	13	177.09	13.06	759.33	147.83	101.03
2010-11	865.16	255.03	869.51	1037.17	105.27	138.00
2011-12	1182.41	252.43	1188.35	1649.33	61.18	219.45
2012-13	569	219.15	571.85	1025.00	147.72	136.38
2013-14	1690.91	190.77	1699.41	3034.92	32.39	403.80
2014-15	464.83	224.01	467.16	3314.00	9.14	440.94
2015-16	448	292.29	450.251	2265.58	73.98	301.44
2016-17	2459.41	138.52	2471.77	2714.58	35.73	361.18

(Note 1: Above Mentioned mean prices is mean over 12 months of the year)

2: Source of data APMC of Ahmednagar)

4.1.4 Inter-year arrival and price behavior of Chickpea

The trend of arrival and price behavior over a period is represented in Table-4. It shows that 12 years period, where arrival was fluctuating year to year. Maximum arrival of Chickpea was 4202.17 qt. in 2008-09, followed by 4003.42 qt. in 2007-08 and minimum was 525.92 qt. in 2012-13. When arrival trend for the period was observed, it was fluctuate slowly in increasing trend as well as in decreasing

trend year to year. It moved highest of 132.47 per cent over base year during 2008-09.

In Ahmednagar market per quintal price of Chickpea was increased from Rs. 1798.92 in 2005-06 to as high as Rs. 6286.42 in 2016-17. Price index exhibited increasing trend and reached 313.96 per cent over a period of 12 years. The arrival trend for same period, it is observed that the trend of arrival shows increasing and decreasing trend in entire period. It moved up to 65.99 per cent over base period of 12 years.

Table 4: Inter-year arrival and price behavior of Chickpea in APMC Ahmednagar

Year	Arrival			Prices		
	Mean	CV	Index No.	Mean	CV	Index No.
2005-06	3609.92	124.15	113.80	1798.92	11.98	89.84
2006-07	1903.50	111.45	60.00	1910.92	63.25	95.44
2007-08	4003.42	68.63	126.20	2297.00	6.70	114.72
2008-09	4202.17	95.59	132.47	2307.08	6.83	115.22
2009-10	2321.50	89.71	73.18	2185.33	6.75	109.14
2010-11	2310.67	81.06	72.84	2054.67	4.95	102.62
2011-12	1248.83	71.60	39.37	2837.67	16.60	141.72
2012-13	525.92	58.41	16.58	3892.00	8.97	194.38
2013-14	529.17	135.68	16.68	2103.58	74.15	105.06
2014-15	1726.17	90.91	54.41	2746.75	16.76	137.18
2015-16	1430.83	73.92	45.10	3822.83	32.11	190.92
2016-17	2093.50	156.02	65.99	6286.42	16.52	313.96

(Note 1: Above Mentioned mean prices is mean over 12 months of the year

2: Source of data APMC of Ahmednagar)

4.1.5 Inter-year arrival and price behavior of Bajra

The trend of arrival and price behavior over a period is represented in Table-5. It shows that 12 years period; where arrival was fluctuates year to year. Maximum arrival of Bajra was 2716.16 qt. in 2006-07, followed by 2336.41 qt. in 2005-06 and minimum was 232.41 qt. in 2015-16. When arrival trend for the period was observed, it was fluctuate slowly in increasing trend as well as in decreasing trend year

to year. It moved highest of 122.52 per cent over base year during 2006-07.

Bajra in Ahmednagar market per quintal price was increased from Rs. 644 in 2005-06 to as high as Rs. 1804.58 in 2016-17. Price index exhibited increasing trend and reached 238.07 per cent over a period of 12 years. The arrival trend for same period, it is observed that the trend of arrival shows increasing and decreasing trend in entire period. It moved up to 38.51 per cent over base period of 12 years.

Table 5: Inter-year arrival and price behavior of Bajra in APMC Ahmednagar

Year	Arrival			Prices		
	Mean	CV	Index No.	Mean	CV	Index No.
2005-06	2336.41	38.54	105.39	644	11.61	84.96
2006-07	2716.16	51.60	122.52	775.91	5.98	102.36
2007-08	1598.16	43.17	72.08	854.08	4.18	112.67
2008-09	1362	46.60	61.43	939.83	6.84	123.98
2009-10	2264.75	82.09	102.15	1017.33	4.26	134.21
2010-11	1672.58	47.43	75.44	1050.33	6.32	138.56
2011-12	1090.08	97.31	49.17	1270.58	6.82	167.62
2012-13	595.58	49.59	26.86	1444.08	7.93	190.51
2013-14	995.33	55.53	44.89	1589.16	7.04	209.65
2014-15	428.08	41.08	19.30	1619.58	4.98	213.66
2015-16	232.41	66.59	10.48	1638.08	7.59	216.10
2016-17	853.91	77.64	38.51	1804.58	6.22	238.07

(Note 1: Above Mentioned mean prices is mean over 12 months of the year

2: Source of data APMC of Ahmednagar)

4.2. Intra year (month-wise) arrivals and prices relationship of Sorghum, Tur, Soybean, Chickpea and Bajra in the APMC's of Ahmednagar district.

4.2.1 Intra-year (month-wise) arrival and price relationship of Sorghum over a month in Ahmednagar APMC

Intra year (month wise) arrival and price relationship of sorghum over a month in Ahmednagar APMC is presented in Table 6. Table shows that month-wise arrival of Sorghum over a period of 12 month where highest arrival was 7093.58

qt. in the month of February, followed by 5368.33 qt. in the month of March because of more cultivation of Sorghum in surrounding area of Ahmednagar APMC and commencement of harvesting season i.e. in peak period. Lowest arrival was in the month of November and September i.e. 2477.08 qt. and 2548.91 qt. respectively due to slack period. Index number for arrival was the highest in the month of February i.e. 194.93 per cent, followed by March i.e. 147.52 per cent due to highest arrival of Sorghum. Per quintal highest price was in the month of September i.e. Rs.1801.08. Index number for

price was highest in the month of September i.e. 107.63 per cent because of highest price in the month of September when arrival of gram was less. During peak period when arrival was more, prices were low and when arrival was less during slack season, prices were more i.e. arrivals and prices were inversely proportional to each other.

Table 6: Intra-year (month-wise) arrival and price relationship of Sorghum over a month in Ahmednagar APMC

Month	Arrival			Prices		
	Mean	CV	Index No.	Mean	CV	Index No.
April	4142.83	45.08	113.84	1647	36.39	98.42
May	3442	54.69	94.59	1691.25	36.46	101.07
Jun	3331.75	51.14	91.56	1681.58	37.90	100.49
July	2671.41	59.06	73.41	1696.33	36.18	101.37
Aug	2695.5	69.35	74.07	1680	37.71	100.40
Sep	2548.91	44.65	70.04	1801.08	35.30	107.63
Oct	2804.25	41.69	77.06	1556	34.75	92.99
Nov	2477.08	55.40	68.07	1687.75	37.36	100.86
Dec	3123.5	55.67	85.83	1784.25	38.51	106.63
Jan	3160.08	48.61	86.64	1702.25	39.87	113.85
Feb	7093.58	80.49	194.93	1659.58	32.90	116.11
March	5368.33	60.23	147.52	1735.33	32.88	106.16

4.2.2. Intra-year (month-wise) arrival and prices relationship of Tur over a month in Ahmednagar APMC

Intra year (month wise) arrival and price relationship of Tur over a month in Ahmednagar APMC is presented in Table 7. It shows that month-wise arrival of Tur over a period of 12 month where highest arrival was 2300.583 qt. in the month of February, Followed by 2154.25 qt. in the month of January because of more cultivation of Tur in surrounding area of Ahmednagar APMC and commencement of harvesting season i.e. in peak period. Lowest arrival was in the month of September and August i.e. 130.33 qt. and 138.92 qt. respectively due to slack period. Index number for arrival was the highest in the month of February i.e. 508.70 per cent, followed by January i.e. 476.34 per cent due to highest arrival of Tur.

In the month of December per quintal highest price was Rs.3851.42. Index number for price was highest in the month of December i.e. 116.48 per cent because of highest price in the month of December, When arrival of gram was less. During peak period when arrival was more, prices were low and when arrival was less during slack season, prices were more i.e. arrivals and prices were inversely proportional to each other.

Table 7: Intra-year (month-wise) arrival and price relationship of Tur over a month in Ahmednagar APMC

Month	Arrival			Prices		
	Mean	CV	Index No.	Mean	CV	Index No.
April	452.25	88.65	100	3443.75	46.97	104.1465
May	499.25	76.98	110.3925	3410.583	50.26	103.1435
Jun	405.25	100.36	89.60752	3065.583	69.31	92.70995
July	301.5833	86.22	66.68509	3652.083	44.46	110.447
Aug	138.9167	94.98	30.71679	2896.833	80.35	87.60658
Sep	130.3333	71.37	28.81887	3189.583	59.38	96.45998
Oct	187.3333	161.65	41.42252	2171.833	88.29	65.681
Nov	184.8333	211.39	40.86973	3225	70.01	97.53106
Dec	697.4167	90.97	154.2104	3851.417	55.25	116.4753
Jan	2154.25	81.30	476.3405	3612	42.99	109.2348
Feb	2300.583	61.88	508.6973	3560.417	36.82	107.6768
March	1446.417	75.74	319.8268	3514.583	40.17	106.2887

4.2.3. Intra-year (month-wise) arrival and price relationship of Soybean over a month in Ahmednagar APMC

Intra year (month wise) arrival and price relationship of Soybean over a month in Ahmednagar APMC is presented in Table 8. It shows that month-wise arrival of Soybean over a period of 12 month where highest arrival was 2910.92 qt. in the month of October, Followed by 1624.17 qt. in the month of November because of more cultivation of soybean in surrounding area of Ahmednagar APMC and commencement of harvesting season i.e. in peak period. Lowest arrival was in the month of August and September i.e. 7.75 qt. and 8.75 qt. respectively due to slack period. Index number for arrival was the highest in the month of October i.e. 26267.35 per cent, Followed by November i.e. 10908.58 per cent due to highest arrival of Soybean. Per quintal highest price was in the month of October i.e. Rs.2129. Index number for price was highest in the month of October i.e. 135.45 per cent because of highest price in the month of October, When arrival of Soybean was less. During peak period when arrival was more, prices were low and when arrival was less during slack season, prices were more i.e. arrivals and prices were inversely proportional to each other.

Table 8: Intra-year (month-wise) arrival and price relationship of Tur over a month in Ahmednagar APMC

Month	Arrival			Prices		
	Mean	CV	Index No.	Mean	CV	Index No.
April	452.25	88.65	100	3443.75	46.97	104.1465
May	499.25	76.98	110.3925	3410.583	50.26	103.1435
Jun	405.25	100.36	89.60752	3065.583	69.31	92.70995
July	301.5833	86.22	66.68509	3652.083	44.46	110.447
Aug	138.9167	94.98	30.71679	2896.833	80.35	87.60658
Sep	130.3333	71.37	28.81887	3189.583	59.38	96.45998
Oct	187.3333	161.65	41.42252	2171.833	88.29	65.681
Nov	184.8333	211.39	40.86973	3225	70.01	97.53106
Dec	697.4167	90.97	154.2104	3851.417	55.25	116.4753
Jan	2154.25	81.30	476.3405	3612	42.99	109.2348
Feb	2300.583	61.88	508.6973	3560.417	36.82	107.6768
March	1446.417	75.74	319.8268	3514.583	40.17	106.2887

4.2.4. Intra-year (month-wise) arrival and price relationship of Chickpea over a month in Ahmednagar APMC

Intra year (month wise) arrival and price relationship of Chickpea over a month in Ahmednagar APMC is presented in Table 9. It shows that month-wise arrival of Chick pea over a period of 12 month where highest arrival was 6497.08 qt. in the month of March, Followed by 4668.58 qt. in the month of February because of more cultivation of Chick pea in surrounding area of Ahmednagar APMC and commencement of harvesting season i.e. in peak period. Lowest arrival was in the month of December and November i.e. 490.75 qt. and 757 qt. respectively due to slack period. Index number for arrival was the highest in the month of March i.e. 291.31 per cent, followed by February i.e. 209.32 per cent due to highest arrival of Chick pea.

Per quintal highest price was in the month of October i.e. Rs.3220.32. Index number for price was highest in the month of October i.e. 114.67 per cent because of highest price in the month of October, When arrival of gram was less. During peak period when arrival was more, prices were low and when arrival was less during slack season, prices were more i.e. arrivals and prices were inversely proportional to each other.

Table 9: Intra-year (month-wise) arrival and price relationship of Chickpea over a month in Ahmednagar APMC

Month	Arrival			Prices		
	Mean	CV	Index No.	Mean	CV	Index No.
April	2877.92	64.45	129.04	2736.92	34.16	97.46
May	1933.00	64.27	86.67	2790.00	39.57	99.35
Jun	1880.00	87.44	84.29	2898.08	42.78	103.20
July	1467.83	89.17	65.81	2841.33	62.14	101.18
Aug	1249.83	94.58	56.04	2583.75	66.48	92.00
Sep	779.00	69.52	34.93	2723.92	62.68	96.99
Oct	1255.83	85.68	56.31	3220.42	48.13	114.67
Nov	757.00	84.38	33.94	2899.08	56.93	103.23
Dec	490.75	78.33	22.00	2809.67	73.60	100.05
Jan	2048.75	88.11	91.86	3131.33	40.77	111.50
Feb	4668.58	86.32	209.32	2758.25	48.77	98.22
March	6497.08	68.78	291.31	2850.42	36.07	101.50

4.2.5. Intra-year (month-wise) arrival and price relationship of Bajra over a month in Ahmednagar APMC

Intra year (month wise) arrival and price relationship of Bajra over a month in Ahmednagar APMC is presented in Table 10. The month-wise arrival of Bajra over a period of 12 month where highest arrival was 2144.5 qt. in the month of January, Followed by 2005.75 qt. in the month of November because of more cultivation of Bajra in surrounding area of Ahmednagar APMC and commencement of harvesting season i.e. in peak period. Lowest arrival was in the month of August and April i.e. 833.92 qt. and 840.25 qt. respectively due to slack period. Index number for arrival was the highest in the month of January i.e. 225.93 per cent, followed by November i.e. 211.31 per cent due to highest arrival of Bajra.

In the month of February per quintal highest price was Rs.1270.17. Index number for price was highest in the month of February i.e. 105.13 per cent because of highest price in the month of February, When arrival of gram was less. During peak period when arrival was more, prices were low and when arrival was less during slack season, prices were more i.e. arrivals and prices were inversely proportional to each other.

Table 10: Intra-year (month-wise) arrival and price relationship of Bajra over a month in Ahmednagar APMC

Month	Arrival			Prices		
	Mean	CV	Index No.	Mean	CV	Index No.
April	840.25	74.71	88.52	1191.75	35.06	98.63
May	997.91	76.49	105.13	1240.16	34.66	102.64
Jun	1009.41	61.61	106.34	1192.66	34.05	98.71
July	874.33	77.59	92.11	1183.5	36.17	97.95
Aug	833.91	101.65	87.85	1236.91	32.68	102.37
Sep	1151.75	89.00	121.33	1171.33	33.95	96.94
Oct	1909.5	53.92	201.17	1160.16	30.21	96.02
Nov	2005.75	83.30	211.31	1214.83	29.77	100.54
Dec	1634.58	74.90	172.20	1264.91	32.44	104.69
Jan	2144.5	77.60	225.92	1258.08	31.26	104.12
Feb	1843.25	79.58	194.19	1270.16	30.22	105.12
March	900.33	57.64	94.85	1263.08	30.21	104.54

5. Conclusions

1. In Ahmednagar APMC the highest arrival of sorghum, Tur, soybean, chickpea and bajra is found in the post-harvest period, while it was lowest in the before harvesting over 12 years period of time.
2. It shows inverse proportion between arrival and prices of sorghum, Tur, soybean, chickpea and bajra.
3. Over 12 year period, in Ahmednagar APMC the per quintal highest price of sorghum, Tur, soybean, chickpea

and bajra was found in the before harvesting period. when arrival of sorghum, Tur, soybean, chickpea and bajra is minimum and it was lowest in post-harvest months.

4. The inverse relationship between arrivals and prices was noticed for Sorghum, Tur, Soybean, Chickpea and Bajra which indicated that the increase in arrivals lowered the prices of these commodities.
5. The more variability was observed in the arrivals of Sorghum, Tur, Soybean, Chickpea and Bajra due to fluctuations in the production.

6. References

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