



EFFECT OF WHOLE SALE MARKET RATE OF MAJOR FRUITS AND VEGETABLES DURING LOCKDOWN PERIOD COVID-19 IN LAKHIMPUR –KHERI

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Abstract

A survey has been conducted regarding the market rate of vegetable and fruit in whole sale market by KVK, Lakhimpur- Kheri during lockdown period COVID-19. The survey was done at NAVEEN KRISHI MANDI, Lakhimpur-Kheri on 20 vegetables Potato, Tomato, Chilli (green), Chilli (red), Capsicum, Brinjal, Mushroom, Lemon, Onion, Garlic, Pumpkin, bottle gourd, Bitter gourd, Pointed gourd, Cucumber, Oea, Bean, Okra, Zinger, Sugar beet and 10 fruits viz. Grape, Orange, Apple, Pomegranate, Water melon, Musk melon, Mosambi, Pineapple, Banana, and Papaya. The market rate was observed during JANUARY, FEBDUARY, MARCH and APRIL 2020 and compared it with the rate of last year 2019 of same months. It has been observed that overall rate of vegetable was 27.06 % and 45.47 % lesser in MARCH and APRIL 2020 ,respectively, during lockdown period as compared to last year 2019 in same months. The maximum rate (72.75%) was reduces in capsicum fallowed by pumpkin (69.23%), bottle gourd (66.67%), tomato (66.67%), and minimum rate (16.66%) in potato was affected during this period. Similar trend was also observed in fruit rate. It was reduces 22.89% in MARCH and 45.15% in APRIL 2020 lockdown period as compared to last year 2019 in same months. The maximum rate (58.18%) was reduced in water melon, followed by grapes (57.14%), pineapple (55.00%), pomegranate (54.17%), orange (52.0%) and minimum (11.11%) rate was reduces in banana. It is interested to note that buyers were increased during this period in whole sale market. This might be due to decreases the employment in other sector though agriculture sector has more opportunities during stress condition of country.

Keywords: Covid-19, Fruit, Vegetable, Market rate.

INTRODUCTION

India is second largest producer of vegetable and fruit after China and Brazil, respectively. The health crisis around the worldwide by COVID-19 pandemic, affect the life of human being. During this challenging period Government of India announced the Janta Curfew and stepwise lockdown first phase form IIIrd week of March to mid of April and secondly it was extended up to 3, May 2020. Lockdown means all the economic activities are shut down, the production and supply of goods and services disrupted loss of jobs, wedges. Thus, the COVID-19 lockdown is unique both consumption demand and supply fallen. During this period Government have to so many supports to transfer of Rs. 2000/ per farmer on their account under PM KISAN scheme. This locking period was a crucial for our nationwide farmer because it was peak period if Rabi crop. ICAR also issued guideline and advisory for harvesting, thrashing, post harvesting and marketing of farm produce. Making the food grain, fruit, vegetable and other essential items availability to nation people of both urban and rural areas was the most critical challenges for Govt. machinery. Keeping this a market survey has done by KVK, Lakhimpur-Kheri on wholesale prices of major fruit and vegetable available in district.

MATERIALS AND METHODS

A survey for study on trend of wholesale market rate was done at NAVEEN KRISHI MANDI, Lakhimpur-Kheri during locking period March and April 2020.

The data was collected 10 different fruits Grape, Orange, Apple, Pomegranate, Water melon, Musk melon, Mosambi, Pineapple, Banana, and Papaya and 20 different vegetables Potato, Tomato, Chilli (green), Chilli(red), Capsicum, Brinjal, Mushroom, Lemon, Onion, Garlic, Pumpkin, bottle gourd, Bitter gourd, Pointed gourd, Cucumber, Oea, Bean, Okra, Zinger, Sugar beet from four wholesalers of both fruits and vegetable separately. The wholesale rate of last year 2019 and current year 2020 month wise of JANUARY, FEBURERY, MARCH, and APRIL were taken from the lazar account of wholesaler. The range of depend on quality of fruits and vegetables, and average of lowest and height value taken for computation.

RESULTS AND DISCUSSION

It is clear from the Table (1) that average rate of vegetables from wholesale market the sum of 27.06% rate saw fall down in month of MARCH 2020 and 45.47% in the month of APRIL 2020.on compare to wholesale of 2019 of same months. It also reported that within vegetables maximum 60.0% rate was reduces in pumpkin the month of March 2020 and 72.73% reduces in capsicum followed by pumpkin (67.23%) in the month of April 2020. It is also reported from Table (2) that average wholesale market rate of fruit was reduced 22.89% in month of March and 45.15% in month of April 2020. Among the fruits maximum (40.91%) rate was reduced in pine apple followed by water melon (36.36%) in month of March 2020 and (58.18%) rate was reduced in water melon followed by grapes (57.14%). The short fall of wholesale market rate was due to blockage of transportation, restaurants, hotels, dhabas and other eateries points check the purchases the vegetable and fruits.

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Table 1. Effect of COVID -19 lockdown period on market rate of Vegetable (Rs. / kg.)

S.N.	Name of vegetable	2019 (Rs. /kg.)				2020 (Rs. /kg.)				Percentage changes 2020 over2019			
		Jan.	Feb.	March	April	Jan.	Feb.	March	April	Jan.	Feb.	March	April
1	Zinger	50.0	53.0	54.0	58.0	40.0	40.0	38.0	35.0	(-) 20.0	(-) 18.87	(-)29.63	(-) 39.66
2	Lime	55.0	50.0	58.0	60.0	18.0	20.0	30.0	25.0	(-) 67.27	(-) 60.00	(-) 48.28	(-) 58.33
3	Onion	12.0	14.0	13.0	12.0	50.0	55.0	10.0	10.0	(+) 316.6	(+) 292.86	(-) 23.08	(-) 16.66
4	Potato	15.0	17.0	17.0	20.0	16.0	17.0	15.0	15.0	(+) 6.67	0	(-) 11.76	(-) 25.00
5	Garlic	140.0	160.0	180.0	150.0	80.0	85.0	90.0	80.0	(-) 42.86	(-) 46.88	(-) 47.37	(-) 46.67
6	Bottle gourd	15.0	12.0	13.0	15.0	20.0	22.0	13.0	5.0	(+) 33.33	(+) 83.33	0	(-) 66.67
7	Pumpkin	8.0	6.0	10.0	13.0	8.0	10.0	4.0	4.0	0	(+) 66.67	(-) 60.00	(-) 69.23
8	Cucumber	30.0	20.0	15.0	15.0	20.0	20.0	12.0	8.0	(-) 33.33	0	(-) 20.00	(-) 46.66
9	Bitter gourd	40.0	50.0	50.0	45.0	40.0	45.0	30.0	30.0	0	(-) 10.00	(-) 40.00	(-) 33.33
10	Pointed gourd	60.0	50.0	55.0	55.0	50.0	40.0	25.0	20.0	(-) 16.67	(-) 20.00	(-) 54.55	(-) 27.27
11	Tomato	20.0	25.0	35.0	45.0	15.0	20.0	15.0	7.0	(-) 25.00	(-) 20.00	(-) 57.14	(-) 66.67
12	Okra	40.0	50.0	25.0	25.0	40.0	45.0	25.0	15.0	0	(-)10.00	0	(-) 40.00
13	Chilli (green)	25.0	30.0	30.0	30.0	20.0	22.0	20.0	15.0	(-) 20.00	(-) 26.67	(-) 33.33	(-) 50.00
14	Chilli (red)	40.0	50.0	50.0	50.0	50.0	50.0	45.0	38.0	(+) 25.00	0	(-) 10.00	(-) 24.00
15	Capsicum	50.0	45.0	40.0	55.0	30.0	25.0	18.0	15.0	(-) 40.00	(-) 44.44	(-) 55.00	(-) 72.73
16	Bringal	12.0	8.0	10.0	10.0	10.0	12.0	6.0	4.0	(-) 16.67	(+) 50.00	(-) 40.00	(-)60.00
17	Pea	18.0	25.0	20.0	40.0	35.0	30.0	20.0	20.0	(+) 94.44	(+)20.00	0	(-) 50.00
18	Bean	20.0	22.0	22.0	25.0	30.0	25.0	22.0	18.0	(+) 50.00	(+) 13.64	0	(-)28.00
19	Sugar beet	6.0	5.0	5.0	8.0	5.0	6.0	5.0	4.0	(-) 16.67	(+) 20.00	0	(-) 50.00
20	Mushroom	70.0	60.0	50.0	65.0	50.0	60.0	45.0	40.0	(-) 28.57	0	(-) 11.11	(-) 38.46
	Average									(+) 60.48	(+) 56.89	(-) 27.06	(-) 45.47

Table (2): Effect of COVID -19 lockdown period on market rate of fruit (Rs. /kg. or piece or dozen)

S.No.	Name of fruit	2019 (Rs. /kg. or piece or dozen)				2020 (Rs. /kg. or piece or dozen)				Percentage changes 2020 over2019			
		Jan.	Feb.	March	April	Jan.	Feb.	March	April	Jan.	Feb.	March	April
1	Grape	50-60 (55.0)	30-40 (35.0)	25-40 (32.5)	50-55 (52.5)	40-50 (45.0)	30-40 (35.0)	20-40 (30.0)	15-30 (22.5)	(-) 18.18	0	(-) 7.69	(-) 57.14
2	Orange	30-40 (35.0)	20-40 (30.0)	20-50 (35.0)	60-65 (62.5)	20-40 (30.0)	25-40 (32.5)	20-30 (25.0)	25-35 (30.0)	(-) 14.29	(+) 8.33	(-) 28.57	(-) 52.00
3	Apple	30-60 (45.0)	40-70 (55.0)	70-80 (75.0)	80-90 (85.0)	30-60 (45.0)	40-70 (55)	40-70 (55.0)	40-50 (45.0)	0	0	(-) 26.67	(-) 47.06
4	Banana	15-30 (22.5)	15-30 (22.5)	15-30 (22.5)	30-35 (32.5)	15-30 (22.5)	15-30 (22.5)	15-30 (22.5)	15-25 (20.0)	0	0	0	(-) 11.11
5	Pomegranate	30-60 (45.0)	30-60 (45.0)	30-70 (50.0)	40-80 (60.0)	30-60 (45.0)	30-60 (45.0)	30-60 (45.0)	15-40 (27.5)	0	0	(-) 10.00	(-) 54.17
6	Papaya	40-50 (45.0)	40-50 (45.0)	30-40 (35.0)	30-35 (32.5)	25-30 (27.5)	25-30 (27.5)	25-30 (27.5)	20-25 (22.5)	(-) 38.99	(-) 38.89	(-) 21.43	(-) 30.80
7	Mosambi	25-30 (27.5)	25-30 (27.5)	20-30 (50.0)	20-30 (25.0)	25-30 (27.5)	25-30 (27.5)	15-20 (17.5)	12-20 (16.0)	0	0	(-) 30.00	(-) 36.00
8	Pineapple	50-60 (55.0)	50-60 (55.0)	50-70 (60.0)	50-60 (55.0)	50-60 (55)	50-60 (55)	25-40 (32.5)	25-30 (27.5)	0	0	(-) 40.91	(-) 55.00
9	Water melon	30-40 (35.0)	30-50 (40.0)	25-30 (27.5)	25-30 (27.5)	30-45 (37.5)	40-55 (47.5)	15-20 (17.5)	8-15 (11.5)	(+) 7.14	(+) 18.75	(-) 36.36	(-) 58.18
10	Musk melon	50-70 (60.0)	50-70 (60.0)	50-60 (55.0)	40-50 (45.0)	50-70 (60.0)	50-70 (60.0)	50-30 (40.0)	20-25 (22.5)	0	0	(-) 27.27	(-) 50.00
	Average									(-) 7.21	(-) 1.48	(-) 22.89	(-) 45.15

Note: Market rate range according to quality, Average is taken for computation

The travel ban, social distancing, and combined reduced urban demand and over supply affect the declining market rate of vegetable (Seneshaw Tamru *et al.*, 2020). The tomato grower in Maharashtra is reported to receiving not even Rs.2/kg., in Punjab vegetable those were sold at Rs.15/kg. are sold Rs.1/kg. (Ramakumar, 2020). Fruit and vegetable export fall down up to 30%- 40% in global lockdown (Dilip Kumar Jha, 2020). Price of agriculture commodities such parishible vegetable and fruit fallen 15%-20% as bulk demand from hotels, restaurant etc. (Jayshree Bhosal *et al.*, 2020).

Conclusion

The vegetables and fruit crop cannot be allow to stand in the field and storage for longer period , this may over ripe , rotting, loosing quality thus reduces market rate. There was disruptions of roadway, railway means of transportation as well as shutter down of hotels, restaurants and other eating points of urban areas affect the demand and supply was in glut at local market.

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