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An economic analysis of crops under MSP in Chhattisgarh

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Abstract

The present study was carried out to study the growth rate of area, production and productivity of crops covered under MSP and extent of purchase of these crops by government agencies at MSP in Chhattisgarh. The primary and secondary both data was utilized to fulfill the objectives of the study. The exponential function was employed to estimate the growth rate of area, production and productivity of crops under study. The study revealed that area under gram, maize and sugarcane had registered positive and statistically significant growth rate while negative and statistically significant growth rate was observed for area under Barley, Jowar, Nigerseed, Ragi, Rapeseed, Safflower and Urad. The growth rate in production of Maize and Sugarcane was found positive and statistically significant while negative and statistically significant growth rate was registered for Rice and Rapeseed & Mustard. The study also revealed that 74.59 per cent of total paddy and 14.1 per cent of total maize produced by the farmers in Chhattisgarh state was purchased at MSP by the Chhattisgarh government.

Keywords: Minimum support price (MSP), compound annual growth rate, area, production, productivity

Introduction

The price of agricultural goods and products are highly unstable due to their short life span and seasonal nature. Agricultural price policy plays an impactful role to attain the stability of fluctuating price and help in growth and equality in the agricultural sector as well as Indian economy. The main objective of the Government's Price Policy is to protect both producers and consumers from inconsistent pricing. Minimum Support Price (MSP) is an integral tool of Agriculture Price Policy of India. It targets to ensure support price to farmers and affordable price to consumers through public distribution system (Parikh & Singh, 2007) [9]. The price support system was conceptualized during pre-green revolution period as an institutional mechanism for incentivizing farmers to adapt new technologies (Planning Commission, 2005; Deshpande 2008) [8, 3]. Later, Agriculture Price Commission was established in the year 1965, based on the recommendations of Jha committee to suggest support prices for crops after considering the cost of cultivation to account (Kadasiddappa et al. 2013) [6]. Price incentives in form of MSP are credited for the increase in area under rice and wheat in the green revolution states like Punjab and Haryana. Agricultural situation in India has registered remarkable change after the green revolution period, but the agriculture price policy has more or less remained same (Chand 2003) [2]. Food surplus is available in many states and not just Haryana, Punjab and Andhra Pradesh; however, the procurement has largely confined to these regions (Planning Commission 2005) [8]. MSP is viewed as a safety net to ensure price security for a long-term investment decision to farmers. There have been many concerns off late regarding operation and effectiveness of MSP. Many studies have pointed out that MSP is leading to regional disparity in incomes as it is effective only in few states where it is backed by procurement (Schiff et al. 1992; Ali et al. 2012; Tripathi 2013) [10, 1, 11]. MSP is also said to have favoured crop specialization with rice and wheat at the cost of pulses and oil seeds (Chand 2003; Jha & Srinivasan 2006; Jha 2009; Mittal & Hariharan 2016) [2, 4, 5, 7].

Materials and Methods

The presented study had been conducted in Northern Hills Zone of Chhattisgarh. The study is based on both primary data and secondary data. The primary data on production of major crops grown by farmers had been collected using well-structured schedule through personal interview during March – April 2020-21. Secondary data on area under various crops, production and productivity of crops under study and purchase of different crops at MSP by the government agencies had been collected from the Department of Agriculture, Directorate

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of Economics and Statistics, Government of Chhattisgarh, Food Corporation of India, Food Corporation of India, NAFED, etc. for the period of eight years i.e., 2011-12 to 2018-19.

Analytic Tools

The compound annual growth rate of area, production and productivity of crops under MSP was studied using the exponential function of the following form:

$$\ln Y_t = a + bt + u_t$$

Where,

Y_t = Area/production/productivity of relevant crop.

t = Time.

a = Constant parameter.

b = Growth parameter, Growth rate = $(\text{Antilog } b - 1) \times 100$.

u_t = Random error term.

The extent of purchase of different crops by government agency at MSP was studied by collecting the published data on purchase of different crops at MSP and comparing with the total production of those crops. Thereafter, following formula was used.

$$\text{Extent of purchase} = TP_i - GP_i$$

Where,

TP_i = Total production of i^{th} crop.

GP_i = Quantity of i^{th} crop purchased by government at MSP.

Results and Discussion

The Compound annual growth rate of area under MSP crops in Chhattisgarh

The CAGR of area, production and productivity for the crops covered under MSP scheme have been estimated and presented in the table 1. The table 1 revealed that the compound annual growth rate of area under MSP crops in Chhattisgarh state was found positive and significant for Gram, Maize and Sugarcane and estimated to be 4.7 per cent, 2.05 per cent and 18.66 per cent per annum, respectively while it was observed to be 0.49 per cent and 0.02 per cent per annum for Wheat and Sesamum, which was positive but not significant. The CAGR for area under Barley, Jowar, Nigerseed, Rapeseed & mustard, Safflower and Urad were estimated to be -5.29 per cent, -7.43 per cent, -3.16 per cent, -

2.55 per cent, -12.28 per cent and -2.76 per cent per annum, respectively, which was statistically significant. The CAGR for area under Rice, Groundnuts, Moong, Ragi, Soyabean, and Masoor were estimated to be -0.46 per cent, -0.16 per cent, -3.01 per cent, -3.06 per cent, -3.16 per cent and -0.55 per cent per annum, respectively which was not found statistically significant.

The Compound annual growth rate of production of crops under MSP Chhattisgarh

The CAGR in production of Maize and Sugarcane in Chhattisgarh state was estimated to be 8.4 per cent and 91.10 per cent per annum, respectively which was found positive and statistically significant and the positive and non-significant growth rate was found in Groundnut, Jowar, Moong, and Sesamum which was estimated to be 1.49 per cent, 1.44 per cent, 0.02 per cent, 4.73 per cent and 2.4 per cent per annum, respectively in Chhattisgarh state (Table 1). The CAGR in production was found negative and statistically significant for Rice and Rapeseed & Mustard and estimated to be -0.35 per cent and -5.45 per cent per annum, respectively, and negative but statistically non-significant growth rate in production was found for Wheat, Barley, Gram, Nigerseed, Ragi, Safflower, Soyabean, Urad and Masoor and estimated to be -0.06 per cent, -5.08 per cent, -4.14 per cent, -1.96 per cent, -4.06 per cent, -7.83 per cent, -5.36 per cent, -1.71 per cent and -0.64 per cent per annum, respectively, in Chhattisgarh state (Table 1).

The Compound annual growth rate of productivity of crops under MSP Chhattisgarh

The CAGR in productivity was found positive and significant for Jowar, Maize, Moong, Urad and Sugarcane and estimated to be 9.63 per cent, 5.76 per cent, 8.00 per cent, 1.03 per cent and 61.04 per cent per annum, respectively while it was found positive but statistically non-significant for Rice, Barley, Groundnuts, Nigerseed, Safflower, Sesamum and Masur (lentil) and estimated to be 0.55 per cent, 0.89 per cent, 1.66 per cent, 1.25 per cent, 6.33 per cent, 2.38 per cent and 0.75 per cent per annum, respectively (Table 1). The CAGR in productivity was found negative but statistically non-significant for Wheat, Gram, Ragi, Rapeseed & Mustard and Soyabean and estimated to be -0.55 per cent, -8.50 per cent, -1.58 per cent, -2.95 per cent and -2.27 per cent per annum, respectively in Chhattisgarh state (Table 1).

Table 1: CAGR of area, production and productivity of crops under MSP in Chhattisgarh

S No.	Name	Area (Hectare)	Production (Tonnes)	Yield (T/Ha)
1	Rice	-0.46 ^{NS}	-0.35 ^{**}	0.55 ^{NS}
2	Wheat	0.49 ^{NS}	-0.06 ^{NS}	-0.55 ^{NS}
3	Barley	-5.29 ^{**}	-5.08 ^{NS}	0.89 ^{NS}
4	Gram	4.7 ^{**}	-4.14 ^{NS}	-8.5 ^{NS}
5	Groundnut	-0.16 ^{NS}	1.49 ^{NS}	1.66 ^{NS}
6	Jowar	-7.43 ^{**}	1.49 ^{NS}	9.63 ^{**}
7	Maize	2.05 ^{**}	8.4 ^{**}	5.76 ^{**}
8	Moong (Green Gram)	-3.01 ^{NS}	4.73 ^{NS}	8.00 ^{**}
9	Niger Seed	-3.16 ^{**}	-1.96 ^{NS}	1.25 ^{NS}
10	Ragi	-3.06 ^{NS}	-4.06 ^{NS}	-1.58 ^{NS}
11	Rapeseed & Mustard	-2.55 ^{**}	-5.45 ^{**}	-2.95 ^{NS}
12	Safflower	-12.28 ^{**}	-7.83 ^{NS}	6.33 ^{NS}
13	Sesamum	0.02 ^{NS}	2.4 ^{NS}	2.38 ^{NS}
14	Soyabean	-3.16 ^{NS}	-5.36 ^{NS}	-2.27 ^{NS}
15	Urad	-2.76 ^{**}	-1.71 ^{NS}	1.03 ^{**}

16	Masur (Lentil)	-0.55 ^{NS}	-0.64 ^{NS}	0.75 ^{NS}
17	Sugarcane	18.66**	91.10**	61.04**

* Denote significant at 1% level of significance ($p < 0.01$),

**Denote significant at 5% level of significance ($p < 0.05$),

***Denote significant at 10% level of significance ($p < 0.10$) and

NS= Denote non-significance

The extent of purchase of different crops by government at MSP

The extent of purchase of different crops by government at MSP has been presented in the Table 2. It can be seen from the Table 2. The highest extent of purchase was found to be rice crops during study period (2011-12 to 2019-20). The highest extent of rice crop was purchased in 2019-20 accounting 74.59 per cent of total rice production in the state. The lowest quantity of total rice production in Chhattisgarh state was observed in 2016-17 when only 49.97 per cent of total rice production was purchased. In case of maize very low quantity of total production was purchased by Chhattisgarh government. The purchase of maize by

Chhattisgarh government was started in 2017-18. Before 2017-18 no quantity of maize produced by farmers was purchased by Chhattisgarh government. In 2017-18 only 8.40 per cent of total maize produced in the state of purchased by state government which increased to 11.52 per cent in 2018-19 and 14.04 per cent in 2019-20. In 2020-21, only 0.85 per cent of total maize produced in the Chhattisgarh state was purchased by the state government. This sharp decline in government purchase may be due to COVID-19 situation in the state. Except rice and maize crops, no other crops were purchased by the state government during the study period. Although some other crops were purchased by central and other state government. (Appendix 1)

Table 2: Extent of purchase of different crop in Chhattisgarh state

Year	Crop	Total production	Quantity of crop purchased by government at MSP	Extent of purchase
2011-12	Rice	6028400.0	4115000	68.26
2012-13	Rice	6608830.0	4804000	72.69
2013-14	Rice	6716400.0	4290000	63.87
2014-15	Rice	6322110.0	3423000	54.14
2015-16	Rice	5789444.4	3442000	59.45
2016-17	Rice	8048400.00	4022000	49.97
2017-18	Rice	4930802.10	3255000	66.01
2018-19	Rice	6526860.00	3971000	60.84
2019-20	Rice	6774768.00	5053000	74.59
2011-12	Maize	172000.0	0.00	0.00
2012-13	Maize	207500.0	0.00	0.00
2013-14	Maize	229100.0	0.00	0.00
2014-15	Maize	230250.0	0.00	0.00
2015-16	Maize	193800.0	0.00	0.00
2016-17	Maize	18919204.4	0.00	0.00
2017-18	Maize	317520.00	26681	8.40
2018-19	Maize	296330.17	34136	11.52
2019-20	Maize	344932.38	48445	14.04
2020-21	Maize	341214.44	2916.85	0.85

Conclusions

In the presented study researcher had tried to estimate the effect of government price policy on the crops covered under government price policy. The effect was ascertained by studying the changes in area, production and productivity of the selected crops in the state. The study revealed that area under Gram, Maize and Sugarcane had increased while area under Barley, Jowar, Nigerseed, Rapeseed & Mustard, Safflower and Urad had reduced over time. The production of Maize and Sugarcane had increased while production of Paddy and Rapeseed & Mustard had reduced over time. This may be due to the per acre ceiling of quantity purchased at MSP for paddy. The productivity of Jower, Maize, Moong, Urad and Sugarcane had increased over time. The increase in area, production and productivity of Sugarcane crop was found due to the fact that state government is providing favourable environment for Sugarcane producer by providing them assured market through establishment of Sugar Mills across state. The increase in area, production and productivity of Maize crop was observed due to the purchase of Maize by state government and feed manufacturing firms in the state.

Although, Paddy had been purchased by the public authorities (Central/State government) on regular basis but due to the per acreage ceiling of quantity of paddy purchased by the public authorities, farmers are neither allocating larger area nor interested in increasing the productivity of paddy in the state. Total 17 crops covered under minimum support price were grown in the state but only two crops namely Paddy and Maize were purchased by the public authorities in the Chhattisgarh state. The Paddy was purchased on regular basis but the purchase of Maize was found very scanty.

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Appendix 1: Production and purchase of different crops at MSP by government agencies in India

State	Year	Crop	Production	Procurement (Quantity)	Procurement (%)
CG	2011-12	Arhar/Tur	23400.0	0.0	0.0
CG	2012-13	Arhar/Tur	32300.0	0.0	0.0
CG	2013-14	Arhar/Tur	31200.0	0.0	0.0
CG	2014-15	Arhar/Tur	33800.0	0.0	0.0
CG	2015-16	Arhar/Tur	29500.0	0.0	0.0
CG	2016-17	Arhar/Tur	39600.0	0.0	0.0
CG	2017-18	Arhar/Tur	34683.71	0.0	0.0
CG	2018-19	Arhar/Tur	32414.40	0.0	0.0
CG	2019-20	Arhar/Tur	32128.48	0.0	0.0
CG	2020-21	Arhar/Tur	27170.64	0.0	0.0
CG	2014-15	Bajara	100.0	0.0	0.0
CG	2016-17	Bajara	42.60	0.0	0.0
CG	2017-18	Bajara	25000	0.0	0.0
CG	2018-19	Bajara	26000	0.0	0.0
CG	2020-21	Bajara	20.60	0.0	0.0
CG	2011-12	Barley	2100.0	0.0	0.0
CG	2012-13	Barley	1000.0	0.0	0.0
CG	2013-14	Barley	3700.0	0.0	0.0
CG	2014-15	Barley	3000.0	0.0	0.0
CG	2015-16	Barley	1200.0	0.0	0.0
CG	2016-17	Barley	2,300.0	0.0	0.0
CG	2017-18	Barley	2072.44	0.0	0.0
CG	2018-19	Barley	1488.96	0.0	0.0
CG	2019-20	Barley	1017.03	0.0	0.0
CG	2020-21	Barley	992.42	0.0	0.0
CG	2020-21	Cotton(Lint)	8400.00	0.0	0.0
CG	2011-12	Gram	240400.0	0.0	0.0
CG	2012-13	Gram	285200.0	0.0	0.0
CG	2013-14	Gram	213200.0	0.0	0.0
CG	2014-15	Gram	290400.0	0.0	0.0
CG	2015-16	Gram	219000.0	0.0	0.0
CG	2016-17	Gram	359900.0	0.0	0.0
CG	2017-18	Gram	320927.50	0.0	0.0
CG	2018-19	Gram	329859.00	0.0	0.0
CG	2019-20	Gram	88188.87	0.0	0.0
CG	2020-21	Gram	267510.33	0.0	0.0
CG	2011-12	Groundnut	37500.0	0.0	0.0
CG	2012-13	Groundnut	34900.0	0.0	0.0
CG	2013-14	Groundnut	37300.0	0.0	0.0
CG	2014-15	Groundnut	36300.0	0.0	0.0
CG	2015-16	Groundnut	33600.0	0.0	0.0
CG	2016-17	Groundnut	46400.00	0.0	0.0
CG	2017-18	Groundnut	33393.50	0.0	0.0
CG	2018-19	Groundnut	40300.56	0.0	0.0
CG	2019-20	Groundnut	41818.56	0.0	0.0

CG	2020-21	Groundnut	31623.00	0.0	0.0
CG	2011-12	Jowar	4100.0	0.0	0.0
CG	2012-13	Jowar	3500.0	0.0	0.0
CG	2013-14	Jowar	3600.0	0.0	0.0
CG	2014-15	Jowar	4400.0	0.0	0.0
CG	2015-16	Jowar	4200.0	0.0	0.0
CG	2016-17	Jowar	5400.0	0.0	0.0
CG	2017-18	Jowar	5323.97	0.0	0.0
CG	2018-19	Jowar	3421.42	0.0	0.0
CG	2019-20	Jowar	4068.70	0.0	0.0
CG	2020-21	Jowar	2731.56	0.0	0.0
CG	2011-12	Linseed	14500.0	0.0	0.0
CG	2012-13	Linseed	8900.0	0.0	0.0
CG	2013-14	Linseed	11100.0	0.0	0.0
CG	2014-15	Linseed	12300.0	0.0	0.0
CG	2015-16	Linseed	7900.0	0.0	0.0
CG	2016-17	Linseed	10300.00	0.0	0.0
CG	2017-18	Linseed	6395.92	0.0	0.0
CG	2018-19	Linseed	4617.60	0.0	0.0
CG	2019-20	Linseed	4453.12	0.0	0.0
CG	2020-21	Linseed	4922.88	0.0	0.0
CG	2012-13	Moong (Green Gram)	4900.00	0.0	0.0
CG	2013-14	Moong (Green Gram)	3800.00	0.0	0.0
CG	2014-15	Moong (Green Gram)	3900.00	0.0	0.0
CG	2015-16	Moong (Green Gram)	6840.00	0.0	0.0
CG	2016-17	Moong (Green Gram)	7300.00	0.0	0.0
CG	2017-18	Moong (Green Gram)	6348.19	0.0	0.0
CG	2018-19	Moong (Green Gram)	5845.48	0.0	0.0
CG	2019-20	Moong (Green Gram)	4140.80	0.0	0.0
CG	2020-21	Moong (Green Gram)	3204.62	0.0	0.0
CG	2011-12	Niger Seed	11900.0	0.0	0.0
CG	2012-13	Niger Seed	11400.0	0.0	0.0
CG	2013-14	Niger Seed	11800.0	0.0	0.0
CG	2014-15	Niger Seed	11400.0	0.0	0.0
CG	2015-16	Niger Seed	9800.0	0.0	0.0
CG	2016-17	Niger Seed	12200.00	0.0	0.0
CG	2017-18	Niger Seed	10465.96	0.0	0.0
CG	2018-19	Niger Seed	10698.24	0.0	0.0
CG	2019-20	Niger Seed	9695.70	0.0	0.0
CG	2020-21	Niger Seed	9555.52	0.0	0.0
CG	2011-12	Ragi	1900.0	0.0	0.0
CG	2012-13	Ragi	2300.0	0.0	0.0
CG	2013-14	Ragi	1600.0	0.0	0.0
CG	2014-15	Ragi	1800.0	0.0	0.0
CG	2015-16	Ragi	1300.0	0.0	0.0
CG	2016-17	Ragi	1500.0	0.0	0.0
CG	2017-18	Ragi	1207.50	0.0	0.0
CG	2018-19	Ragi	1647.80	0.0	0.0
CG	2019-20	Ragi	1449.69	0.0	0.0
CG	2020-21	Ragi	1654.96	0.0	0.0
CG	2011-12	Rapeseed & Mustard	21700.0	0.0	0.0
CG	2012-13	Rapeseed & Mustard	25800.0	0.0	0.0
CG	2013-14	Rapeseed & Mustard	26200.0	0.0	0.0
CG	2014-15	Rapeseed & Mustard	26400.0	0.0	0.0
CG	2015-16	Rapeseed & Mustard	22300.0	0.0	0.0
CG	2016-17	Rapeseed & Mustard	19800.00	0.0	0.0
CG	2017-18	Rapeseed & Mustard	18106.45	0.0	0.0
CG	2018-19	Rapeseed & Mustard	17602.19	0.0	0.0
CG	2019-20	Rapeseed & Mustard	16240.64	0.0	0.0
CG	2020-21	Rapeseed & Mustard	18725.74	0.0	0.0
CG	2011-12	Safflower	200.0	0.0	0.0
CG	2012-13	Safflower	100.0	0.0	0.0
CG	2013-14	Safflower	200.0	0.0	0.0
CG	2014-15	Safflower	100.0	0.0	0.0
CG	2015-16	Safflower	300.0	0.0	0.0
CG	2016-17	Safflower	200.00	0.0	0.0
CG	2017-18	Safflower	100.98	0.0	0.0

CG	2018-19	Safflower	109.62	0.0	0.0
CG	2019-20	Safflower	77.71	0.0	0.0
CG	2020-21	Safflower	28.15	0.0	0.0
CG	2011-12	Sesamum	7600.0	0.0	0.0
CG	2012-13	Sesamum	5500.0	0.0	0.0
CG	2013-14	Sesamum	5000.0	0.0	0.0
CG	2014-15	Sesamum	8000.0	0.0	0.0
CG	2015-16	Sesamum	6500.0	0.0	0.0
CG	2016-17	Sesamum	7900.00	0.0	0.0
CG	2017-18	Sesamum	8373.12	0.0	0.0
CG	2018-19	Sesamum	7227.94	0.0	0.0
CG	2019-20	Sesamum	6858.88	0.0	0.0
CG	2020-21	Sesamum	6078.98	0.0	0.0
CG	2011-12	Soyabean	75600.0	0.0	0.0
CG	2012-13	Soyabean	128100.0	0.0	0.0
CG	2013-14	Soyabean	93500.0	0.0	0.0
CG	2014-15	Soyabean	79740.0	0.0	0.0
CG	2015-16	Soyabean	69000.0	0.0	0.0
CG	2016-17	Soyabean	72600.00	0.0	0.0
CG	2017-18	Soyabean	46108.66	0.0	0.0
CG	2018-19	Soyabean	65314.56	0.0	0.0
CG	2019-20	Soyabean	79891.50	0.0	0.0
CG	2020-21	Soyabean	50557.92	0.0	0.0
CG	2012-13	Urad	30200.0	0.0	0.0
CG	2013-14	Urad	32200.0	0.0	0.0
CG	2014-15	Urad	30500.0	0.0	0.0
CG	2015-16	Urad	30400.0	0.0	0.0
CG	2016-17	Urad	31900.0	0.0	0.0
CG	2017-18	Urad	31187.91	0.0	0.0
CG	2018-19	Urad	29335.20	0.0	0.0
CG	2019-20	Urad	24990.17	0.0	0.0
CG	2020-21	Urad	30828.70	0.0	0.0
CG	2011-12	Sugarcane	24400.0	0.0	0.0
CG	2012-13	Sugarcane	37300.0	0.0	0.0
CG	2013-14	Sugarcane	22100.0	0.0	0.0
CG	2014-15	Sugarcane	49300.0	0.0	0.0
CG	2015-16	Sugarcane	67800.00	0.0	0.0
CG	2016-17	Sugarcane	848000.00	0.0	0.0
CG	2017-18	Sugarcane	1158487.00	0.0	0.0
CG	2018-19	Sugarcane	1452135.00	0.0	0.0
CG	2019-20	Sugarcane	1759000.00	0.0	0.0
CG	2020-21	Sugarcane	1756388.50	0.0	0.0
CG	2012-13	Masoor	4200.0	0.0	0.0
CG	2013-14	Masoor	4900.0	0.0	0.0
CG	2014-15	Masoor	948.2	0.0	0.0
CG	2015-16	Masoor	5700.0	0.0	0.0
CG	2016-17	Masoor	7000.00	0.0	0.0
CG	2017-18	Masoor	4590.08	0.0	0.0
CG	2018-19	Masoor	4972.24	0.0	0.0
CG	2019-20	Masoor	4460.64	0.0	0.0
CG	2020-21	Masoor	5821.64	0.0	0.0
CG	2011-12	Wheat	133100.0	0.0	0.0
CG	2012-13	Wheat	141300.0	0.0	0.0
CG	2013-14	Wheat	134000.0	0.0	0.0
CG	2014-15	Wheat	135300.0	0.0	0.0
CG	2015-16	Wheat	137400.0	0.0	0.0
CG	2016-17	Wheat	159500.00	0.0	0.0
CG	2017-18	Wheat	130653.04	0.0	0.0
CG	2018-19	Wheat	162725.76	0.0	0.0
CG	2019-20	Wheat	115290.00	0.0	0.0
CG	2020-21	Wheat	248361.63	0.0	0.0

State	Year	Crop	Production	Procurement (Quantity)	Procurement (%)
Madhya Pradesh	2017-18	Wheat	20019950	67.25	33.59
Madhya Pradesh	2018-19	Wheat	25276038	73.13	28.93
Madhya Pradesh	2019-20	Wheat	37507219	67.25	17.93
Madhya Pradesh	2017-18	Rice	4899058	10.96	22.37

Madhya Pradesh	2018-19	Rice	5238858.58	13.95	26.63
Madhya Pradesh	2019-20	Rice	7363430.39	17.4	23.63
Madhya Pradesh	2019-20	Bengal Gram	3062879	576778	18.83
Madhya Pradesh	2019-20	Masoor	4940	560.83	11.35
Madhya Pradesh	2019-20	Mustard	2035	1824.93	89.68
Haryana	2017-18	Wheat	12265100	74.32	60.59
Haryana	2018-19	Wheat	12573000	87.84	69.86
Haryana	2019-20	Wheat		93.2	
Haryana	2017-18	Rice	4880000	39.92	81.80
Haryana	2018-19	Rice	4516000	39.41	87.27
Haryana	2019-20	Rice		43.07	
Haryana	2017-18	Mustard	1105400		0.00
Haryana	2018-19	Mustard	1251400	235497	18.82
Haryana	2017-18	Sunflower	9500		0.00
Haryana	2018-19	Sunflower	17960	2487	13.85
Haryana	2018-19	Green Gram	20902	223	10.67
Punjab	2017-18	Wheat	17830000	117.06	65.65
Punjab	2018-19	Wheat	18262000	126.92	69.50
Punjab	2019-20	Wheat	17619000	129.12	73.28
Punjab	2017-18	Rice	13382000	118.39	88.47
Punjab	2018-19	Rice	12822000	113.34	88.39
Punjab	2019-20	Rice	12675000	108.76	85.81
Andhra Pradesh	2018-19	Gram	242646	92016	4.60
Andhra Pradesh	2017-18	Rice	8461342	40	47.27
Andhra Pradesh	2018-19	Rice	8234539	48.06	58.36
Andhra Pradesh	2019-20	Rice	9140091	55.33	60.54
Andhra Pradesh	2017-18	Tur	545379	55550	10.19
Andhra Pradesh	2018-19	Tur	531413	46790	8.80
Andhra Pradesh	2019-20	Tur	525903	50191	9.54
Andhra Pradesh	2017-18	Green Gram	310796	3900	1.25
Andhra Pradesh	2019-20	Green Gram	337607	11930	35.34
Andhra Pradesh	2017-18	Groundnut	3767715	613460	16.28
Andhra Pradesh	2019-20	Groundnut	2876486	2117000	73.60
Andhra Pradesh	2017-18	Black Gram	371088	93249	25.13
Karnaraka	2017-18	Black Gram	66079	13162	19.92
Karnaraka	2018-19	Black Gram	43034	17000	39.50
Karnaraka	2017-18	Green Gram	592102	218730	36.94
Karnaraka	2018-19	Green Gram	593351	310760	52.37
Karnaraka	2019-20	Green Gram	599802	57850	96.45
Karnaraka	2018-19	Soyabean	257221	6000	23.33
Karnaraka	2017-18	Green Gram	592102	21873	36.94
Karnaraka	2018-19	Green Gram	593351	31076	52.37
Karnaraka	2019-20	Green Gram	599802	5785	9.64
Karnaraka	2017-18	Groundnut	636338	12017	18.88
Karnaraka	2019-20	Groundnut	503425	3823	7.59
Karnaraka	2018-19	Rice	3461982	0.59	1.70
Karnaraka	2019-20	Rice	3947973	0.41	1.04
Tamil Nadu	2017-18	Black Gram	1786666	1548	8.66
Tamil Nadu	2019-20	Black Gram	1762942	6	34.03
Tamil Nadu	2018-19	Green Gram	396293	364	0.92
Tamil Nadu	2019-20	Green Gram	400921	68	0.17
Tamil Nadu	2018-19	Tur	142745	399	2.80
Tamil Nadu	2019-20	Tur	142903	502	3.51
Tamil Nadu	2017-18	Rice	6638450	9.94	0.15
Tamil Nadu	2018-19	Rice	6131550	12.94	21.10
Tamil Nadu	2019-20	Rice	7265161	22.04	30.34
Maharashtra	2017-18	Tur	834489	336819	40.36
Maharashtra	2018-19	Tur	834489	53954	6.47
Maharashtra	2019-20	Tur	1196801	195242	16.31
Maharashtra	2017-18	Green Gram	158517	3057	1.93
Maharashtra	2018-19	Green Gram	148150	12222	8.25
Maharashtra	2019-20	Green Gram	150720	4270	2.83
Maharashtra	2018-19	Gram	1396800	191773	13.73
Maharashtra	2020-21	Gram	2240091	371989	16.61
Maharashtra	2017-18	Black Gram	421745	45107	10.70
Maharashtra	2018-19	Black Gram	418500	7742	18.50
Maharashtra	2019-20	Black Gram	416437	1000	2.40

Maharashtra	2017-18	Soyabean	3805544	18854	4.95
Maharashtra	2018-19	Soyabean	4610936	724	0.16
Maharashtra	2019-20	Soyabean	4825628	4000	0.83
Maharashtra	2017-18	Rice	2730800	1.79	0.01
Maharashtra	2018-19	Rice	3275798	5.8	0.00
Maharashtra	2019-20	Rice	2897433	11.67	0.00
Gujarat	2017-18	Black Gram	340286	19885	58.44
Gujarat	2018-19	Black Gram	337939	9415	27.86
Gujarat	2019-20	Black Gram	340930	8800	25.81
Gujarat	2017-18	Tur	846574	69911	82.58
Gujarat	2018-19	Tur	848422	32541	38.35
Gujarat	2019-20	Tur	851489	11549	13.56
Gujarat	2017-18	Groundnut	21480533	829317	38.61
Gujarat	2018-19	Groundnut	21480546	448459	20.88
Gujarat	2019-20	Groundnut	20932769	500517	23.91
Gujarat	2018-19	Gram	234888	90980	387.33
Gujarat	2018-19	Mustard	348435	52759	151.42
Gujarat	2018-19	G Gram	49157	1974	40.16
Gujarat	2017-18	Wheat	3101037	0.07	0.23
Gujarat	2018-19	Wheat	2407132	0.37	1.54
Gujarat	2019-20	Wheat	4553681	0.05	0.11
Rajasthan	2017-18	Black Gram	2076897	131015	63.08
Rajasthan	2018-19	Black Gram	944962	77535	82.05
Rajasthan	2019-20	Black Gram	948357	26000	27.42
Rajasthan	2018-19	Gram	6109974	580029	94.93
Rajasthan	2017-18	Groundnut	4266285	162333	38.05
Rajasthan	2018-19	Groundnut	4265443	232488	54.51
Rajasthan	2019-20	Groundnut	4265021	193080	45.27
Rajasthan	2017-18	Soyabean	2715977	116320	42.83
Rajasthan	2018-19	Soyabean	2904424	2957	1.02
Rajasthan	2017-18	Green Gram	3491929	264090	7.56
Rajasthan	2018-19	Green Gram	3420733	239067	6.99
Rajasthan	2019-20	Green Gram	3336731	121669	3.65
Rajasthan	2018-19	Mustard	4779045	471757	9.87
Rajasthan	2017-18	Wheat	11280500	12.45	11.04
Rajasthan	2018-19	Wheat	11962767	15.32	12.81
Rajasthan	2019-20	Wheat	13894293	14.11	10.16
Uttar Pradesh	2017-18	Black Gram	461671	22587	4.89
Uttar Pradesh	2018-19	Black Gram	463189	29656	6.40
Uttar Pradesh	2018-19	Gram	2151578	14374	0.67
Uttar Pradesh	2019-20	Gram	2154459	743	0.03
Uttar Pradesh	2018-19	Green Gram	454861	299094	65.76
Uttar Pradesh	2019-20	Green Gram	299034	154296	51.60
Uttar Pradesh	2017-18	Rice	15518603	28.75	18.53
Uttar Pradesh	2018-19	Rice	16019695	32.33	20.18
Uttar Pradesh	2019-20	Rice	17027889	37.9	22.26
Uttar Pradesh	2017-18	Wheat	35645666	117.06	32.84
Uttar Pradesh	2018-19	Wheat	38039724	126.92	33.37
Uttar Pradesh	2019-20	Wheat	36209665	129.12	35.66
Uttar Pradesh	2018-19	Groundnut	100470	8703	86.62
Uttar Pradesh	2019-20	Groundnut	88371	2541	28.75
Uttar Pradesh	2018-19	Mustard	2833709	1212	0.43
Uttar Pradesh	2019-20	Mustard	2698844	1455	0.54
Uttar Pradesh	2018-19	Masoor	1439730	13726	9.53
Uttar Pradesh	2019-20	Masoor	453266	162	0.36
Telangana	2017-18	Black Gram	31513	14770	46.87
Telangana	2018-19	Black Gram	30456	5840	19.18
Telangana	2018-19	Gram	163835	50569	30.87
Telangana	2019-20	Gram	199000	57759	29.02
Telangana	2017-18	Rice	6263429	36.18	0.01
Telangana	2018-19	Rice	6668944	51.9	0.01
Telangana	2019-20	Rice	11885796	74.54	0.01
Telangana	2017-18	Soyabean	247298	34693	14.03
Telangana	2018-19	Soyabean	234599	15324	65.32
Telangana	2019-20	Soyabean	311224	10499	33.73
Telangana	2018-19	Groundnut	315136	27	85.68
Telangana	2017-18	Green Gram	64157	3291	51.30

Telangana	2018-19	Green Gram	47608	12907	27.11
Telangana	2019-20	Green Gram	52790	5810	11.01
Telangana	2017-18	Tur	263757	257095	97.47
Telangana	2018-19	Tur	191397	69532	36.33
Telangana	2019-20	Tur	266136	51612	193.93
Telangana	2017-18	Sunflower	7795	217	27.84
Odisha	2019-20	Red Gram	144580	98	67.78
Odisha	2018-19	Black Gram	19043	1	52.51
Odisha	2018-19	Green Gram	70860	19	26.81
Odisha	2017-18	Rice	6551370	32.87	5.02
Odisha	2018-19	Rice	7733710	44.47	57.50
Odisha	2019-20	Rice	9755050	47.98	49.18
West Bengal	2017-18	Black Gram	54966	6789	12.35
West Bengal	2017-18	Rice	16315922	16.73	10.25
West Bengal	2018-19	Rice	16507249	19.79	11.99
West Bengal	2019-20	Rice	16476021	18.38	11.16