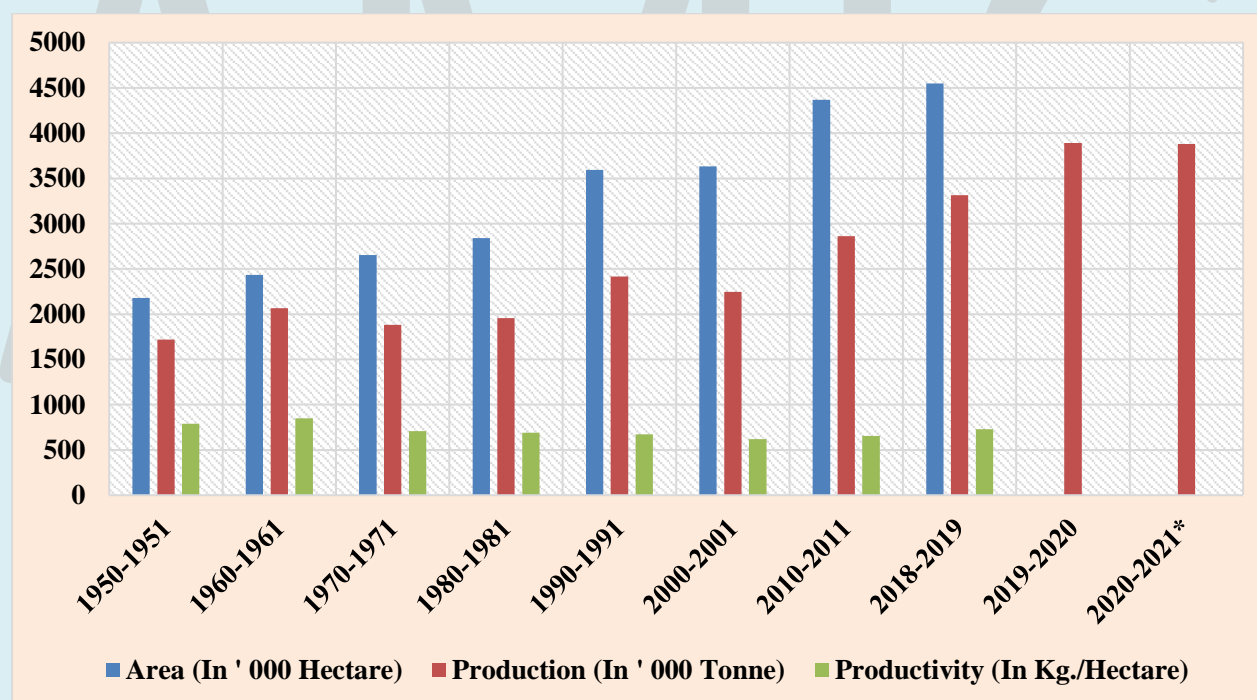


REDGRAM OUTLOOK REPORT- January to December 2020

Pigeon pea (*Cajanaus cajan*) also known as redgram, arhar or tur is a perennial legume from the family Fabaceae. Since its domestication in Indian sub-continent at least 3500 years ago, its seeds have become a common food in Asia, Africa and Latin America. It is consumed on a large scale in South Asia and is a major source of protein for the population of Indian sub-continent. Globally, arhar is grown in an area of 56.16 lakh hectares with a production of 44.25 lakh tonnes and productivity of 788.1 kg/ha (FAO STAT, 2019). India contributes 74.9 per cent of total world redgram production and ranks first globally with 33.15 lakh tonnes cultivated under 45.49 lakh hectares with productivity of 729 kg/hectare (FAO STAT, 2019). In India, redgram takes second position in total pulse production after bengalgram. Andhra Pradesh produced 1.16 lakh tonnes in an area of 2.33 lakh hectares with 496 kg/hectare productivity in 2020-21. (Third Advance Estimates, DES-AP)

Figure 1: Area and production of productivity of Redgram in India (1950-2021)



Source: www.indiastat.com

Table 1 depicts the major producing states in India with Karnataka ranking first in production of 9.47 lakh tonnes followed by Maharashtra (8.34 lakh tonnes), Gujarat (3.07 lakh tonnes) and Uttar Pradesh (2.72 lakh tonnes). Andhra Pradesh stands 10th in production of redgram with 0.45 lakh tonnes. Gujarat followed by Uttar Pradesh were found superior in terms of productivity of redgram.

Table 1: Major producing states of Redgram in India (Area in '000 ha, production in '000 tonnes and productivity in kg/ha)

States	1990-91		2000-01		2010-11		2018-19			
	A	P	A	P	A	P	A	P	Y	Rank
Karnataka	463	175	583	264	891	529	1483	947	639	1
Maharashtra	1008	421	1096	660	1302	976	1261	834	662	2
Gujarat	402	352	318	107	277	273	254	307	1209	3
Uttar Pradesh	468	578	407	510	344	309	251	272	1084	4
Andhra Pradesh	346	74	513	219	638	265	237	113	496	10
Other states	906	817	715	487	915	509	1064	842	791	-
India	3593	2417	3632	2247	4367	2861	4550	3315	729	-

Source: www.indiastat.com

Table 2: Stock of imported redgram of Metals and Minerals Trading Corporation (MMTC) and State Trading Corporation (STC) in India (As on 16.03.2017)

States	Tur (in lakh tonnes)
Andhra Pradesh	0.45
Gujarat	0.45
Maharashtra	0.27
Tamil Nadu	0.28
India	1.45

Source: www.indiastat.com

The stock of imported Redgram from the MMTC and STC in India is 1.45 lakh tonnes with Andhra Pradesh importing around 45374 tonnes in 2017.

Table 3: Balance sheet of Redgram (In lakh tonnes)

Marketing Year (March to February)	2018-19	2019-20	2020-21*
Opening stocks	8.49	4.81	4.00
Production	33.15	37.19	38.15
Imports	3.50	4.50	5.00
Total Supply	45.14	46.5	47.15
Exports	0.33	0.50	0.40
Consumption	40.00	42.00	43.00
Ending stocks	4.81	4.00	3.75

* Advance Estimates Source: Agriwatch

As per some private sources the data compiled in Table 3 infers that in 2020-21 the total supply of 47.15 lakh tonnes can be met for the demand of 43.40 lakh tonnes with import of 5 lakh tonnes.

Table 4: Procurement of Redgram under Price Support Scheme (PSS)

Commodity/year	Support price (Rs per quintal for FAQ)	Quantity procured in tonnes	Value in million	Major states of procurement
2016-17	5050	195994	98976	Gujarat, Karnataka and Maharashtra
2017-18	5450	873759	476198	Andhra Pradesh, Gujarat, Karnataka, Maharashtra and Telangana
2018-19	5675	291001	165143	Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Tamil Nadu and Telangana
2019-20*	5800	361.3	209.55	Telangana

* as on 07.01.2020 'FAQ: Fair and Average Quality

Source: Department of Agriculture, Cooperation & Farmers Welfare

The procurement of redgram under Price Support Scheme is presented in Table 4. In 2016-17, a total of 195994 tonnes was procured at a price of Rs. 5050 per quintal and in 2019-20, a total of 361.3 tonnes was procured at a price of Rs. 5800 per quintal which has a value of Rs. 209.55 million from Telangana state.

Table 5: Area, production and yield of Redgram in Andhra Pradesh

Year	Area ('000 ha)	Production (tonnes)	Yield (Kg/ha)
2010-11	638	265	416
2015-16	220	132	599
2018-19	237	113	496
2019-20	243	119	486
2020-21*	233	116	496

* Third Advance estimates, 2020-21 Source: www.apagrisnet.gov.in

Table 5 shows that, the redgram acreage in Andhra Pradesh before bifurcation was 6.38 lakh hectares which has come down to 2.33 lakh hectares in 2020-21 and production has been declined from 2.65 to 1.16 lakh tonnes during 2010-11 to 2020-21 which can be attributed to decline in area only.

Table 6: Major Redgram producing districts in Andhra Pradesh (2019-20)

District	Area ('000 hectares)	Position	Production ('000 tonnes)	Position	Yield (Kg/ha)	Position
Prakasam	98	1	49	1	498	4
Kurnool	71	2	43	2	600	3
Guntur	20	4	15	3	729	1
Ananthapur	39	3	8	4	201	7
Y.S. R	4	6	2	5	354	6
Chittoor	6	5	1	6	77	8
Other districts	5		1			
Andhra Pradesh	243		119		486	

Source: apagrisnet.gov.in

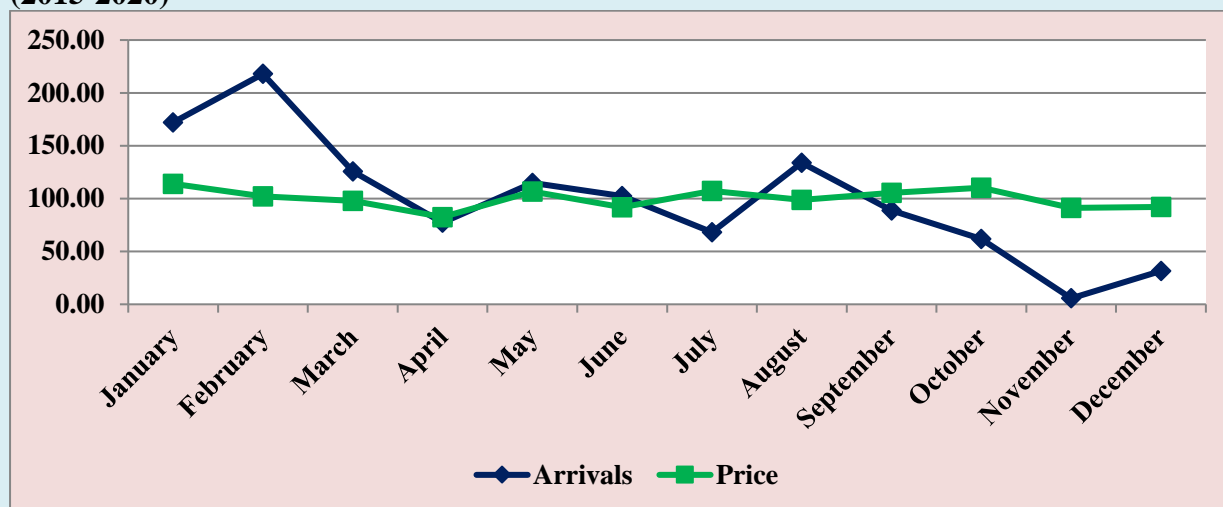
In Andhra Pradesh, Redgram production and area are highest in Prakasam district with production of 40 thousand tonnes and 98 thousand hectares respectively followed by Kurnool district. The productivity of redgram is observed highest in the Guntur district with 729 kg/ha.

Table 7: Seasonal Indices of Redgram arrivals and prices in major markets of Kurnool districts (2015-2020)

Months	Arrivals	Price
January	172.15	113.97
February	217.95	102.08
March	125.74	97.85
April	77.30	82.53
May	114.86	106.71
June	102.47	91.87
July	68.23	107.38
August	133.76	98.87
September	88.66	105.51
October	61.82	110.17
November	5.65	91.08
December	31.40	91.97

Source: Data obtained from Kurnool and Yemmiganur AMCs

The results in Table 7 and Figure 2 shows the seasonal indices of redgram cumulative arrivals and average prices in major markets of Kurnool district (Kurnool and Yemmiganur).

Figure 2: Trends of Redgram arrivals and prices in major markets of Kurnool district (2015-2020)

Source: Data obtained from Kurnool and Yemmiganur AMCs

Rains during end of December 2019 and first fortnight in January 2020 had delayed crop harvesting. Some quality loss was observed in Karnataka too due to rains. In March 2020, Tur procurement target has been fixed at 545573 tonnes. As nodal agencies, NAFED and FCI procured Tur during 2020, supported by some state agencies. Procurement target has been decreased in 2020 due to lower kharif crop size, so that supply in open market continues. In May, June and July 2020, Tur cash market improved due to fresh demand from mills and slower pace of arrivals. Supply from Karnataka, Maharashtra continued for other states. Tur procurement target (5.45 lakh Mt) has been achieved by July 2020. In September 2020 active buying by millers improved demand for daal in cash market pushed up Tur price by Rs 1000-1200 to 6300-7550 per quintal. Import volume remained limited due to non-issuance of import licenses. Arrivals in local markets were negligible. Extended timeline for import till 31st December 2020 and higher import volume in October, November and December amid normal crop condition in major growing region did not allow Tur market to move up beyond a certain level. Tur price in Dec was traded down due to issuance of import licenses, extended timeline for import till 31st December 2020, arrival from new crop, release from central pool stock, lower quotes in Myanmar (\$700 per Mt) and favorable weather's condition in growing region.

Under these circumstances, the Agricultural Market Intelligence Centre, ANRAU expect that redgram is likely to trade in the price range between Rs. 6200 to Rs. 6600 per quintal in April and May 2021.
