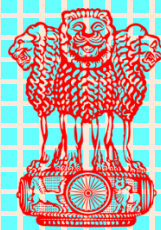


ANNUAL REPORT : 2022-23



सत्यमेव जयते

GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE & FARMERS WELFARE
DEPARTMENT OF AGRICULTURE AND FARMERS WELFARE
DIRECTORATE OF PULSES DEVELOPMENT
VINDHYACHAL BHAVAN, BHOPAL-462004
(MADHYA PRADESH)

ANNUAL REPORT

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डॉ. सुमित मिश्रा

निदेशक

Dr. Sumit Mishra

Director

PREFACE

India's economy has been dominated by agriculture with its contribution to employment at 49%. Ensuring food and nutritional security at an affordable rate to >1.25 billion population remains a national concern and a priority agenda for the current government. The major food crops rice and wheat have been heavily incentivized with MSP and preferential treatment of PDS hence the farmers are motivated to grow either these crops or cash crops like cotton, sugarcane etc.

Pulses have been a secondary choice, mostly concentrated to the rainfed ecology. The rainfed regions supports >40% of human population and 2/3rd of livestock of the country. More than 80% of total pulses are grown in this region. Pulses, historically vital constituent of cropping and consumption pattern are the only rich source protein (20-25%) for 43 percent vegetarians (Urban – 48%, rural – 41%). With the twin objectives i.e. achieving food and nutritional security vis-à-vis enhancing income of the rainfed farmers, the government decided to harness the potential of pulses. In 2015-16, many farmers centric strategies and programmes such as PMKSY, PMFBY, PKVY, SHM and SHC, e-NAM etc was initiated to achieve the targeted outcomes.

The production of pulses to the tune of 27.30 million tonnes during 2021-22 is close to self sufficiency in pulses and the country's hopeful to mitigate the projected demand of 35 Mt. by 2030. According to Final estimates of 2021-22, total foodgrain production in the country is estimated at a record 315.62 million tonnes, which is 64.07 million tonnes and 25% higher than that during 2015-16 (251.54 Million Tonnes) and CAGR by 4%.

The production of Pulses has increased at compound annual growth rates (CAGR) of 5 percent (Tur-9%, Gram-11%, Mung-12%, Urd-6% and Lentil-4%) respectively, during last six years from 2015-16 to 2021-22. It impacts the livelihood of over 5 crore farmers and their dependents. India is the largest consumer and producer of Pulses in the world shared 36% in area and 26% in production (FAO Stat, 2020).

As a result of enhanced per hectare productivity, the year 2020-21 witnessed a record pulse production of 25.46 million tonnes, a grand success story and revolution in pulses self-sufficiency after 2017-18 (25.42 Million Tonnes).

The annual report is an effort towards a brief summary of activities performed by this directorate for the development of Pulses, Global & National Scenario Strategies, various Participation/Workshop/Training/Meeting/IMCT, Field visit, Studies, Surveys etc.

I acknowledge the sincere efforts of Technical Officers Dr A.K. shivare, Joint Director & Shri Vipin Kumar, Joint Director and Technical Staff of this Directorate in their contribution to this publication.

January, 2024

(Dr. Sumit Mishra)

ABOUT THE DIRECTORATE

1. The Directorate of Pulses Development (DPD), one of the eight Commodity Development Directorates (CDDs) viz Jute, Cotton, Wheat, Millets, Rice, Sugarcane and Oilseeds, under the *crops division* of the Ministry of Agriculture, Department of Agriculture & Cooperation (DAC), was established in 1971 at Lucknow (U.P.) by merging the Regional Extension Unit, Ahmedabad (Gujarat). On the recommendations of "CDDs Re-organization Committee", in 1996, the National Head Quarter of pulses commodity was subsequently shifted to Madhya Pradesh, Bhopal. In the Year 2020-21.

Emphasising on the welfare of farmers for overall growth of the agri-sector, the government renamed the Agriculture Ministry as “Ministry of Agriculture and Farmers Welfare” (DA&FW) in the year 2020-21.

2. The Directorate of Pulses Development is mandated to co-ordinate and monitor the implementation of all Pulses related centrally sponsored/central sector schemes on crops development & research across the country.
3. At present Food & Nutrition Security Pulses erstwhile - National Food Security Mission (NFSM)–Pulses is operational in 28 States (638 Districts) + 2 UTs i.e. Jammu & Kashmir and Laddakh (28 Districts) in the Country.
4. With the bi-focal responsibilities for the assigned states of Madhya Pradesh & Chhattisgarh at present, it co-ordinates and monitors all crops related schemes/programmes/missions viz., FNS (Erstwhile-NFSM) - Rice, Wheat, Pulses, Targeting Rice Fallow Areas-Pulses & Oilseeds, Coarse Cereals, Nutri-Cereals, Commercial Crops-Sugarcane & Cotton), National Mission on Edible Oil (NMEO).
5. Monitoring the implementation of 150 pulses seed hubs (Rs. 225.31 Cr) in 24 states covering 97 districts KVKs, 46 SAUs and 07 ICAR institutions to enhance location specific varieties and quality & quantity of pulses seed (Gram, Mung, Urd, Tur, Lentil and Pea etc.,) availability on time in the country.
6. The Directorate functions as Nodal office of DA&FW, Govt. of India, New Delhi for Madhya Pradesh & Chhattisgarh states to represent in State Level Sanction Committees (SLSC), Inter-Ministerial Central Teams (IMCT) & Task-force etc.
7. Preparation of Weekly Weather Watch Report (WWWR), Area coverage and prospects of All India pulses for the all seasons (Kharif/Rabi/Summer) alongwith rainfall situation, market trends of pulses crops and Weekly Weather Watch Report (WWWR) of all Kharif/Rabi/Summer crops of Nodal states of Madhya Pradesh and Chhattisgarh & Crop-wise note on kharif pulses coverage and submitting to the Ministry including harvesting, status of crops on weekly basis.

8. To attend the Weekly Video Conference of Ministry of Agriculture & FW with States Deptt. of Agriculture on crop weather watch report on every Tuesday regularly.
9. Providing inputs for Formulation of Annual and Five year National plan, coordination in execution and monitoring of crop production programmes of pulses at national level, assisting states/UTs in initiation, planning, formulation and intensification of crop development programmes in consonance with the ongoing states programme/Crop diversification aspects & convergence and monitoring.
10. Analytical reports (prod. estimates/ scenario/ price regime/market trends/Import-Export/crop diversions etc.
11. Co-ordination with Seed Agencies (NSC/ NAFED /HIL/ IFFDC/ KRIBHCO/ KVSSSL/NCCF etc.
12. Preparation and submission of crop specific technical notes of Pulses to the Ministry.
13. The DPD, Bhopal has been actively monitoring the programme implementation at the National level, through National Monitoring Team/Field visits, allocation of Seed Minikits, Seed-hub (Pulses), Interface with the Research and other stake-holder organizations/agencies in the country.
14. The DPD drafted the policy paper/guidelines for NFSM -Pulses, Seed- Rolling Plan for the strategies on area expansion and productivity enhancement in consultation with states and ICAR.
15. The Directorate accomplishes the task relating to analysis of Area, Production and Productivity trends/impact of developmental programmes; research areas and identification of bottlenecks and suggest measures for their rectification and also feedback to ICAR-IIPR through institutionalized mechanism of National Conference/Group Meets on Chickpea, Pigeonpea, MULLaRP (Mung, Urd, Lentil, Lathyrus, Rajmash, Pea), Arid Legumes and DA&FW-ICAR Interface; Interface with National and International Research Organizations and Stake holders on area of crop Research, micro level planning of pulses crop development programme; fixing targets of production and suggest measures to achieve them; to co-ordinate in programmatic review of all CSSs and coordinate Seminar/Workshop/Conference /Review Meetings at State and National level.
16. To assess the crop loss/damage to agricultural sector during Natural Calamities as a Member in Inter-Ministerial Central Team (IMCT) representing the Govt. of India, Department of Agri. & FW.
17. To prepare and coordinate with assigned states of Madhya Pradesh & Chhattisgarh for reply of the Parliament Questions.
18. Monitoring of Cluster FLDs on Pulses/ Oilseeds organized by KVKs under ATARI Zone-IX-Jabalpur, Three Years Seed Rolling plan for purchase of breeder seed, production of

foundation and certified seed of oilseeds during 2021-22, 2022-23 and 2023-24 under NFSM-OS & OP and Seed Minikit Programme on Pulses & Oilseeds in Madhya Pradesh and Chhattisgarh States.

19. To prepare the All India Quarterly Progress Report and Annual Progress Report NFSM-Pulses and Seed hub-Pulses.
20. To act as Convener for National Level Monitoring Team (NLMT) to Madhya Pradesh and Chhattisgarh under FNS (Erstwhile-NFSM) Rice, Pulses, Wheat, Coarse Cereals, Nutri-Cereals, Commercial Crops).
21. To provide monthly crop specific advisories to the farmers in assigned states of Madhya Pradesh and Chhattisgarh and through m-kishan portal.
22. To collect & provide the various success stories on Centrally sponsored schemes benefits and other Technical inputs to extension agencies.
23. To participate in ICAR institutes, SAUs, International Research Organizations, NGOs and other stake holders in the field of Agri. and allied sectors for better Research-Development interface.
24. To represent on behalf of DA&FW in ICAR- Annual Group Meet (AGM) Pigeonpea/ Chickpea/ MULLaRP/ Arid Legumes and also represent in National conferences of DA&FW (Kharif, Rabi & Summer conference).
25. Also to represent Department on their Committee/ events with a view to have direct interface for onward benefits to formulate farmer friendly schemes at national level with a unified approach for the overall development of agriculture and in Crop Training Programmes; Developing leaflets/ Literatures on training, etc.

Unit-I

Pulses Overview

1.1 Introduction

- With more people and smaller farms, the world is adopting sustainable production systems. India's Global Hunger Index position dropped after the COVID-19 incident. Nearly 14% of the population is undernourished, which is attributed to pandemic-induced poverty and food insecurity. India's population consumes too few proteins, fruits, and vegetables. 73% of urbanites surveyed were protein deficient. They contain about 20–25% protein by weight, which is double the protein content of wheat and three times that of rice, makes them an excellent source of protein for vegetarians and vegans.
- Rajasthan, Madhya Pradesh, Maharashtra, Uttar Pradesh, and Karnataka are the top five pulse-producing states. Madhya Pradesh, Maharashtra & Rajasthan and Uttar Pradesh produce 22%, 16% each, and 10% of total pulses. Current output cannot meet demand. India buys pulses because growth is insufficient. Pulses are attracting attention from government plans to double farmers' revenue by diversifying and diverting production from traditional cereal-based crops. India produces 25% of the world's pulses, although its contribution to total food grain fell from 16% in 1950 to 8% in 2022-23. Thus, pulses in the country have a huge demand–supply mismatch. The study forecasts 26 million tonnes of pulses by 2026. To meet demand by 2050, it must expand 2.2% annually. Due to unpredictable output, the demand–supply gap for pulses is anticipated to expand. Due to poor pulse production, per capita availability is declining, which is not encouraged by government policy as it competes with wheat and rice.
- Pulses improve soil biodiversity and intercropping, which helps agricultural sustainability. Pulses are a low-carbon future food with a growing population and shift towards vegetarian and vegan diets. To fulfil population increase, 39 million tonnes of pulses are needed by 2050. In this setting, it is necessary to forecast pulse production and formulate policy. This work uses hybrid models to predict pulse production.
- Pulses are one of the important food crops globally due to higher protein content. Pulses are an important group of crops in India, which is also responsible for yielding large financial gains by amounting for a large part of the exports. Pulses are the major sources of protein in the diet. Of all categories of people pulses form an integral part of the Indian diet, providing much needed protein to the carbohydrate rich diet. India is the largest producer and consumer of pulses in the world.
- Major pulses are grown chickpeas (Gram/Chana), Pigeon pea (Tur/Arhar), Mungbeans, Urdbeans (Blackgram), Masur (Lentil), Peas and various kinds of Beans (Minor Pulses).
- The future agricultural operations are likely to be highly skilled and competitive. The serious challenges to the workforce/youth of these resource poor and rainfed regions viz. lack of skill in scientific crop cultivation, repair and maintenance of farm

machineries and implements, production of quality seeds, primary processing, value addition, modern animal husbandry, poor infrastructure (irrigation, godowns/warehouses, trading centres) and organized pulse markets etc. have been considered by the government while formulating the strategy and roadmap to increase the production of pulses.

- The poor nutritional status of the population is a major challenge where low income, small scale's households, has a long term negative implication for economic development. The government has resolved this issue to be addressed through **nutrition-sensitive agriculture interventions**, focusing the pulse crops having multiple nutritional values with essential source of vitamins, micro-nutrient and protein to help attain **nutritional security**. Pulses have better enabling environment to promote dietary and production diversity to address hunger and malnutrition at national level.

Focus on pulses production and consumption can help overcome malnutrition: India should include pulses in the public distribution system.

- India, a country with high concentrations of poor and malnourished people, long promoted a cereal-centric diet composed of subsidized staple commodities such as rice and wheat to feed its population of more than a billion. Today, however, dietary patterns are changing. Policy makers, researchers, and health activists are looking for ways to fight hunger and malnutrition in the country. As they shift their focus from calorie intake to nutrition, neglected foods such as pulses (the dried, edible seeds of legumes) are gaining attention. There are three kinds of hunger that needed to be dealt with – calorie inadequacy, protein deficiency and micronutrient deficiency.
- Pulses are grown in all three seasons. The three crop seasons for the commodity are:
 - **Kharif** : Arhar (Tur), Urd (Blackgram), Moong (Greengram), Lobia (Cowpea), Kulthi (Horsegram) and Moth;
 - **Rabi** : Gram, Lentil, Pea, Lathyrus and Rajmash;
 - **Summer** : Greengram, Blackgram and Cowpea.

1.2 Pulses in Indian Context: 2021-22

1.2.1 India's status of pulse production

- The total world acreage under pulses is about 94.14 (Mha) with production of 89.74 (Mt) at 953 kg/ha yields level. India, with >35 Mha pulses cultivation area, is the largest pulses producing country in the world. It ranks first in area and production with 37 *per cent* and 29 *per cent* respectively. During 2021-22 our productivity at 932 kg/ha, has also increased significantly over last 05 years.
- Thanks to pro-active pulse programme implementation strategies and robust monitoring mechanism of Govt. of India, significant growth in area, production and productivity of pulses has been recorded. More visible and significant increasing trends during 2016-17, 2020-21 and 2021-22, whereby the pulses production reached at 23.13 Mt, 25.46 Mt. and 27.30 Mt respectively, is a grand success story in itself.

The productivity of pulses has increased 13 per cent during 2020-21 & 2021-22 from the level of 786 kg/ha during 2016-17. The production growth has been 18 per cent during 2021-22 highest over 2016-17.

1.2.2 Pulses share to total foodgrain basket :

- Percent share of pulses to total foodgrain production basket remained stagnated between 8-9 per cent uptill 2016-17, The multi-pronged strategy of the government to protect the interest of farmers and the consumers has resulted into enhanced per cent contribution of about 2-3% from 2015-16 to till now. The area was also observed in increasing trend from 2015-16 between 25-30 Mha (Table-1, Fig.-1).
- Deceleration of percent production contribution of pulses to total food grains basket prompted the present dispensation in the Ministry of Agriculture & FW to vigorously pursue the FNS-Pulses (Erstwhile-NFSM) with synergistic approach on Research & Development, procurement, marketing, and import-export policies etc.

(Table-1) : Contribution of pulses to food grains basket.

{Area- Million ha, Production- Million Tones, Yield- kg/ha}

| Year | Pulses | | | Food grains | | | Pulses share to foodgrains (%) | |
|---------|--------|-------|-----|-------------|--------|------|--------------------------------|---|
| | A | P | Y | A | P | Y | A | P |
| 2015-16 | 24.91 | 16.32 | 655 | 123.22 | 251.54 | 2041 | 20 | 6 |
| 2016-17 | 29.45 | 23.13 | 786 | 129.23 | 275.11 | 2129 | 23 | 8 |
| 2017-18 | 29.81 | 25.42 | 853 | 127.52 | 285.01 | 2235 | 23 | 9 |
| 2018-19 | 29.16 | 22.08 | 757 | 124.78 | 285.21 | 2286 | 23 | 8 |
| 2019-20 | 27.99 | 23.03 | 823 | 126.99 | 297.50 | 2343 | 22 | 8 |
| 2020-21 | 28.78 | 25.46 | 885 | 129.80 | 310.74 | 2394 | 22 | 8 |
| 2021-22 | 30.73 | 27.30 | 888 | 130.17 | 315.62 | 2425 | 24 | 9 |

Source: DES, Ministry of Agri. &FW (DA&FW), Govt. of India.

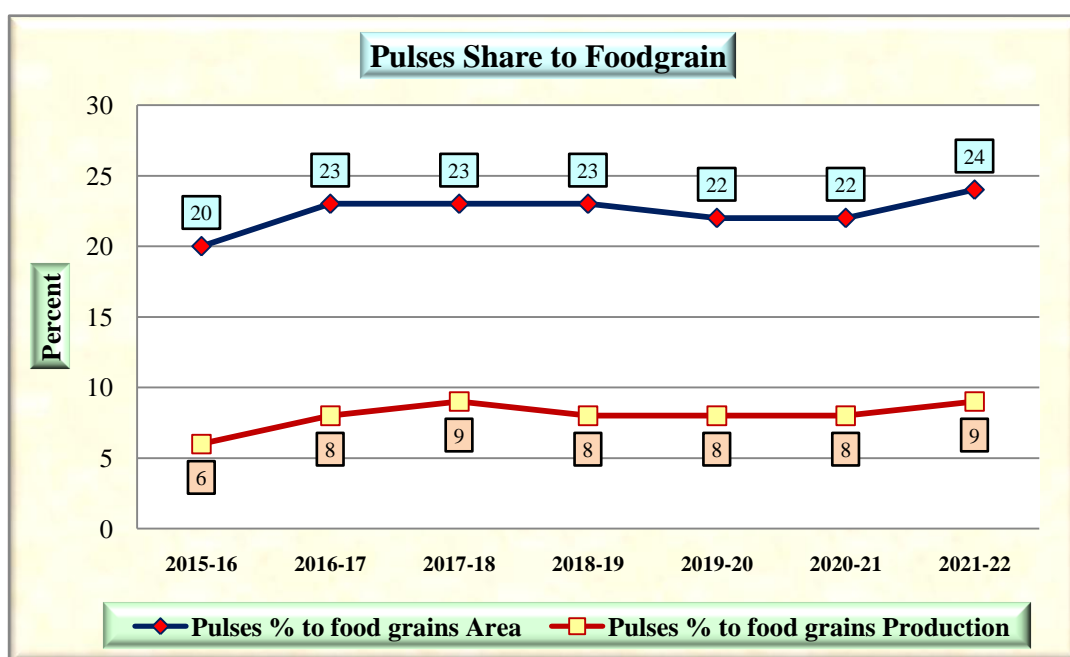


Fig-1: Contribution of Pulses to Foodgrains Basket

1.2.3 Season & crop contribution in total pulse production (2017-18 to 2021-22)

Under individual crop category gram with 47 per cent production share to total pulses is the highest contributor followed by Tur (15 per cent), Mung (12%), Urd (10%) and Lentil (5%). The crop-wise APY and per cent share to total pulses is given below (Table-2, Fig.-2).

(Table -2): Crop contribution to total pulse production

{Area-lakh ha, Production-lakh tons, Yield-kg/ha}

| Crop | Normal (2017-18 to 2021-22) | | | Contribution (%) | |
|----------------------------|-----------------------------|---------------|-------------|------------------|------------|
| | Area | Production | Yield | Area | Production |
| Gram | 101.08 | 115.70 | 1145 | 34 | 47 |
| Tur | 46.29 | 40.07 | 866 | 16 | 16 |
| Urd | 48.38 | 27.28 | 564 | 16 | 11 |
| Mung | 48.52 | 26.48 | 546 | 17 | 11 |
| Lentil | 14.19 | 13.43 | 947 | 5 | 5 |
| Other Kharif Pulses | 17.62 | 7.61 | 432 | 6 | 3 |
| Other Rabi Pulses | 16.86 | 16.01 | 949 | 6 | 7 |
| Total Kharif Pulses | 139.70 | 84.34 | 604 | 48 | 34 |
| Total Rabi Pulses | 153.25 | 162.22 | 1059 | 52 | 66 |
| Total | 292.94 | 246.56 | 842 | | |

Source: DES, Min. of Agri. & FW (DA & FW), GOI, OKP, Other Kharif Pulses, ORP – Other Rabi Pulses.

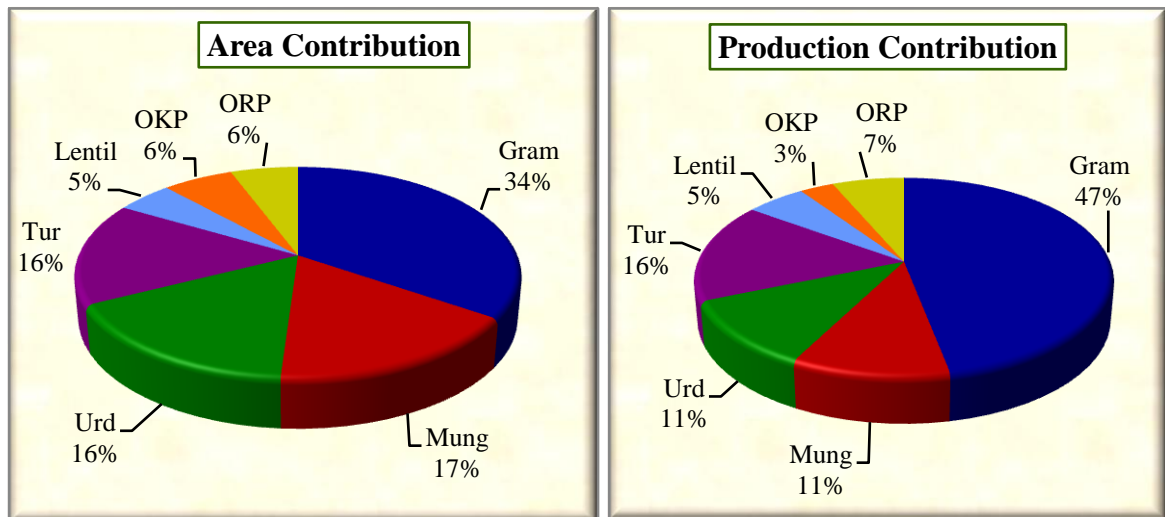


Fig-2: Crop contribution in Total Pulses

1.3 States' Contribution

1.3.1 Total Pulses Scenario : Normal (2017-18 to 2021-22)

- In India, total pulse area and production has been 293 Lha and 247 Lt respectively. Out of the total area >58 Lha is confined to Madhya Pradesh alone, earning a prime status in pulse production commodity contributing a remarkable 20% of the country's pulse area with 24% production, thereby ranking first both in area and production followed by Rajasthan (16%), Maharashtra (16%), and Uttar Pradesh (10%).
- More than 90 *per cent* of total pulse production has been contributed by 10 states of Madhya Pradesh, Rajasthan, Maharashtra, Uttar Pradesh, Karnataka, Gujarat, Andhra Pradesh, Jharkhand, Tamilnadu and Telangana (*Table-3, Fig.-3*).

(Table -3): States' Contribution in Area & Production – Total Pulses

{Area-lakh ha, Production-lakh tons, Yield-kg/ha}

| S.No. | States | Area | % Contri. | Prod. | % Contri. | Yield |
|-------|------------------|---------------|-----------|---------------|-----------|------------|
| 1 | Madhya Pradesh | 58.10 | 20 | 58.51 | 24 | 1007 |
| 2 | Rajasthan | 60.36 | 21 | 39.93 | 16 | 662 |
| 3 | Maharashtra | 44.05 | 15 | 38.22 | 16 | 868 |
| 4 | Uttar Pradesh | 23.46 | 8 | 24.30 | 10 | 1036 |
| 5 | Karnataka | 31.61 | 11 | 19.83 | 8 | 627 |
| 6 | Gujarat | 11.26 | 4 | 14.34 | 6 | 1273 |
| 7 | Andhra Pradesh | 12.91 | 4 | 10.55 | 4 | 817 |
| 8 | Jharkhand | 8.06 | 3 | 8.38 | 3 | 1040 |
| 9 | Tamil Nadu | 8.21 | 3 | 5.37 | 2 | 654 |
| 10 | Telangana | 5.57 | 2 | 5.34 | 2 | 958 |
| | Others | 29.34 | 10 | 21.79 | 9 | 742 |
| | All India | 292.94 | | 246.56 | | 842 |

Source: DES, Ministry of Agri. & FW (DA&FW), GoI. Normal Area & Prod. (2017-18 to 2021-22).

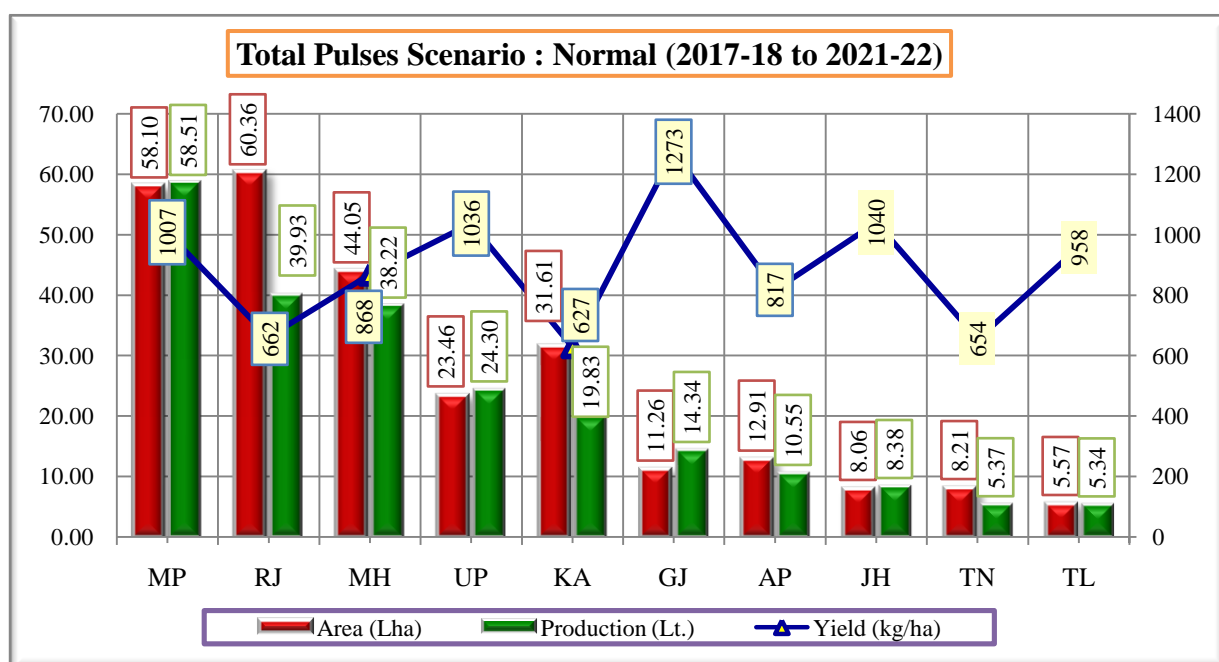


Fig. 3: States' Contribution in Area & Production–Total Pulses

1.3.2 Kharif Pulses Scenario : Normal (2017-18 to 2021-22)

- The Normal area coverage and production of Kharif Pulses has been 140 Lha and 84 Lt respectively. Rajasthan outshined with first rank in area and production both with 29% and 20% respectively followed by Maharashtra (15% & 19%), Karnataka (15% & 16%) and Madhya Pradesh (16% & 14%).
- About 94 per cent of total kharif production was realized from 10 states of Rajasthan, Maharashtra, Karnataka, Madhya Pradesh, Uttar Pradesh, Gujarat, Jharkhand, Telangana, Odisha and Tamil Nadu (Table-4, Fig.-4)).

(Table-4): States' Contribution in Area & Production– Kharif Pulses

{Area-lakh ha, Production-lakh tons, Yield-kg/ha}

| S.No. | States | Area | % Contri. | Production | % Contri. | Yield |
|------------------|----------------|---------------|-----------|--------------|-----------|------------|
| 1 | Rajasthan | 39.88 | 29 | 17.04 | 20 | 427 |
| 2 | Maharashtra | 21.39 | 15 | 15.66 | 19 | 732 |
| 3 | Karnataka | 20.73 | 15 | 13.12 | 16 | 633 |
| 4 | Madhya Pradesh | 21.79 | 16 | 12.18 | 14 | 559 |
| 5 | Uttar Pradesh | 8.51 | 6 | 5.88 | 7 | 691 |
| 6 | Gujarat | 4.74 | 3 | 4.14 | 5 | 874 |
| 7 | Jharkhand | 4.27 | 3 | 4.13 | 5 | 965 |
| 8 | Telangana | 3.99 | 3 | 3.02 | 4 | 757 |
| 9 | Odisha | 4.30 | 3 | 2.68 | 3 | 623 |
| 10 | Tamil Nadu | 1.97 | 1 | 1.68 | 2 | 853 |
| | Others | 8.12 | 6 | 4.81 | 6 | 593 |
| All India | | 139.70 | | 84.34 | | 604 |

Source: DES, Ministry of Agri. & FW (DA&FW), GoI. Normal Area & Prod. (2017-18 to 2021-22).

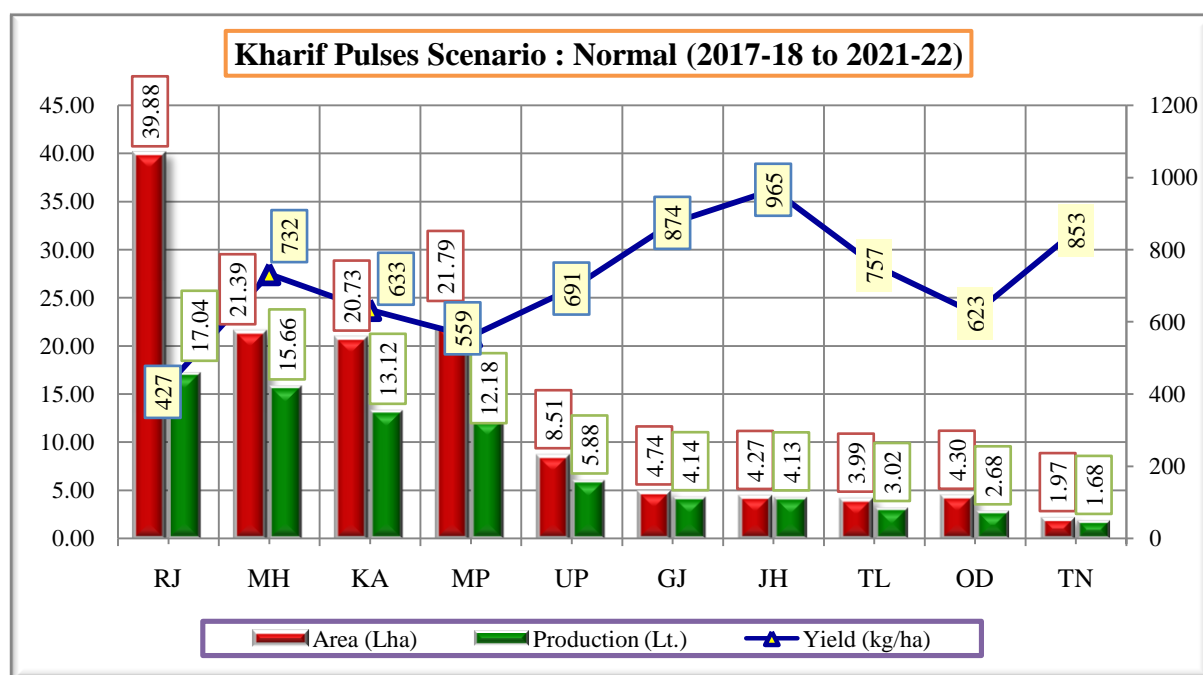


Fig-4: States' Contribution in Area & Production– Kharif Pulses

1.3.3 Rabi Pulses Scenario : Normal (2017-18 to 2021-22)

- All India Rabi pulse acreage and production has been recorded 153 Lha and 162 Lt. Madhya Pradesh with 24 per cent of area and 29 per cent of total rabi pulse production in the country outshined at first rank followed by Rajasthan (13% & 14%), Maharashtra (15% & 14%) and Uttar Pradesh (10% & 11%).
- More than 90 per cent pulse production was recorded from 10 states of Madhya Pradesh, Rajasthan, Maharashtra, Uttar Pradesh, Gujarat, Andhra Pradesh, Karnataka, Jharkhand, Tamil Nadu and Chhattisgarh (Table-5, Fig.,-5).

(Table-5): States' Contribution in Area & Production- Rabi Pulses

{Area-lakh ha, Production-lakh tons, Yield-kg/ha}

| S.No. | States | Area | % Contri. | Production | % Contri. | Yield |
|-------|------------------|---------------|-----------|---------------|-----------|-------------|
| 1 | Madhya Pradesh | 36.31 | 24 | 46.33 | 29 | 1276 |
| 2 | Rajasthan | 20.48 | 13 | 22.89 | 14 | 1118 |
| 3 | Maharashtra | 22.66 | 15 | 22.56 | 14 | 996 |
| 4 | Uttar Pradesh | 14.96 | 10 | 18.42 | 11 | 1231 |
| 5 | Gujarat | 6.52 | 4 | 10.20 | 6 | 1564 |
| 6 | Andhra Pradesh | 9.55 | 6 | 9.21 | 6 | 964 |
| 7 | Karnataka | 10.88 | 7 | 6.71 | 4 | 617 |
| 8 | Jharkhand | 3.79 | 2 | 4.25 | 3 | 1124 |
| 9 | Tamil Nadu | 6.24 | 4 | 3.69 | 2 | 591 |
| 10 | Chhattisgarh | 5.45 | 4 | 3.58 | 2 | 658 |
| | Others | 16.42 | 11 | 14.37 | 9 | 875 |
| | All India | 153.25 | | 162.22 | | 1059 |

Source: DES, Ministry of Agri. & FW (DA&FW), GoI. Normal Area & Prod. (2017-18 to 2021-22).

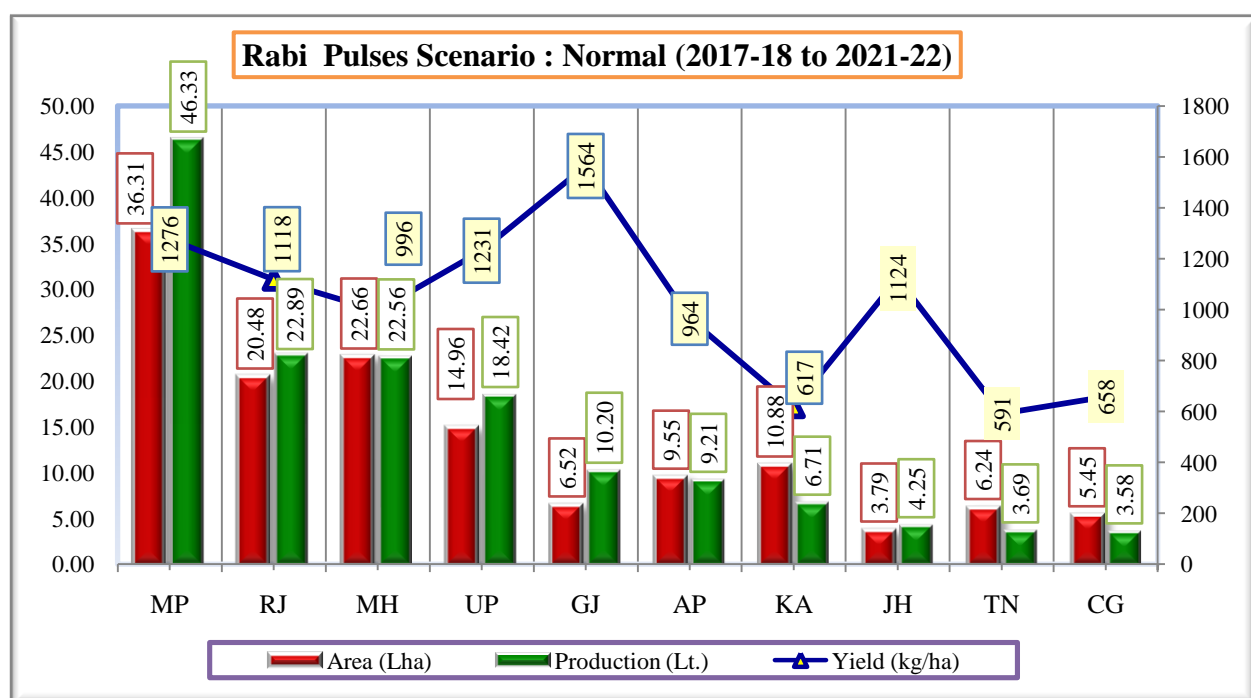


Fig- 5: States' Contribution in Area & Production- Rabi Pulses

1.3.4 Gram (Chickpea) Scenario : Normal (2017-18 to 2021-22)

- This crop was cultivated in about 101 Lha. The country harvested a record production of 116 Lt at a highest productivity level of 1145 kg/ha. As usual, Madhya Pradesh has contributed a significant 25% of the total gram area and 30% of total gram production in the country, thereby ranking first both in area and production followed by Rajasthan (20% & 19%), Maharashtra (21% and 19%), and Gujarat (6% & 8%).
- About 98 per cent of gram production of the country during the period under report has been realized by 10 states of Madhya Pradesh, Rajasthan, Maharashtra, Gujarat, Uttar Pradesh, Karnataka, Andhra Pradesh, Jharkhand, Chhattisgarh and Telangana (Table-6, Fig.-6).

(Table-6): States' Contribution in Area & Production- Gram

{Area-lakh ha, Production-lakh tons, Yield-kg/ha}

| S.No. | States | Area | % Contri. | Production | % Contri. | Yield |
|-------|------------------|---------------|-----------|---------------|-----------|-------------|
| 1 | Madhya Pradesh | 25.43 | 25 | 34.93 | 30 | 1374 |
| 2 | Rajasthan | 20.09 | 20 | 22.27 | 19 | 1108 |
| 3 | Maharashtra | 21.36 | 21 | 21.94 | 19 | 1027 |
| 4 | Gujarat | 5.58 | 6 | 9.26 | 8 | 1660 |
| 5 | Uttar Pradesh | 5.83 | 6 | 7.47 | 6 | 1282 |
| 6 | Karnataka | 9.37 | 9 | 5.94 | 5 | 634 |
| 7 | Andhra Pradesh | 4.74 | 5 | 4.76 | 4 | 1003 |
| 8 | Jharkhand | 2.36 | 2 | 2.85 | 2 | 1209 |
| 9 | Chhattisgarh | 3.31 | 3 | 2.49 | 2 | 754 |
| 10 | Telangana | 1.27 | 1 | 1.94 | 2 | 1535 |
| | Others | 1.76 | 2 | 1.85 | 2 | 1048 |
| | All India | 101.08 | | 115.70 | | 1145 |

Source: DES, Ministry of Agri. & FW (DA&FW), GoI. Normal Area & Prod. (2017-18 to 2021-22).

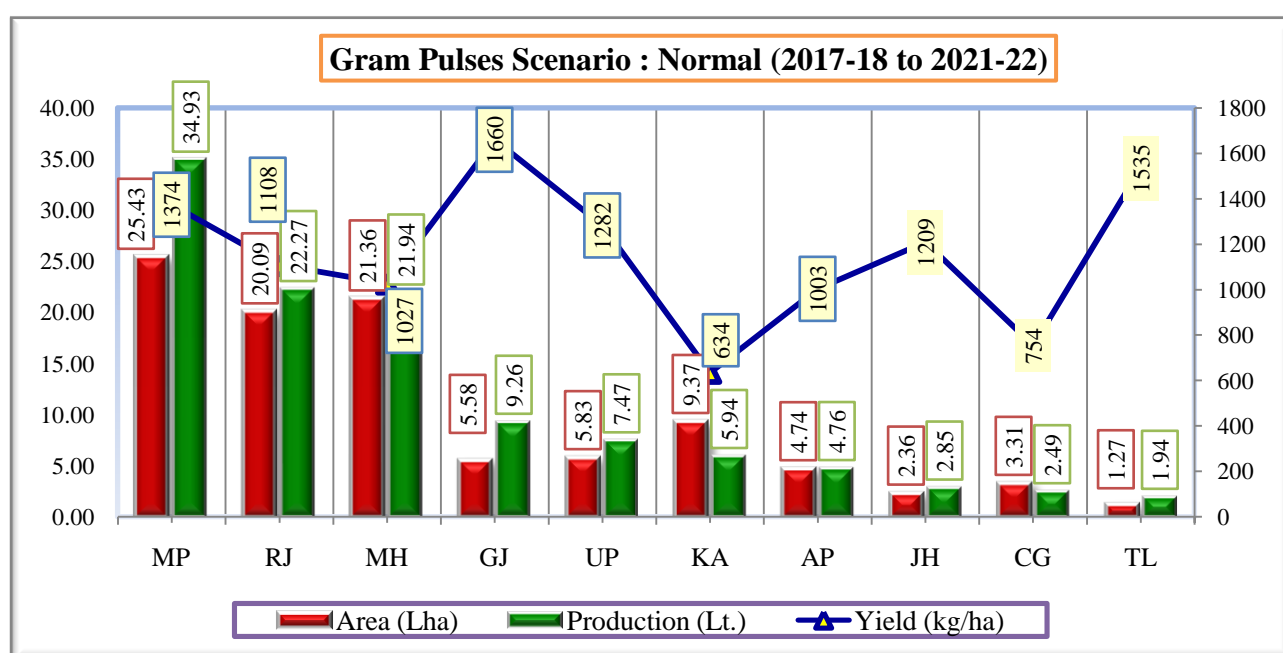


Fig- 6: States' Contribution in Area & Production-Gram

1.3.5 Arhar / Tur (Pigeonpea) Scenario : Normal (2017-18 to 2021-22)

- The country's total area coverage and production of tur has been about 46 Lha and 40 Lt respectively. Maharashtra ranked first (>12 Lha) contributes 27% in area and 29% in production, whereas, Karnataka has contributed 31 per cent of area and 26 per cent of total production.
- About than 98 per cent of Arhar production of the country during the period under report has been realized by 10 states of Maharashtra, Karnataka, Madhya Pradesh, Uttar Pradesh, Gujarat, Jharkhand, Telangana, Odisha, Andhra Pradesh and Tamil Nadu (Table-7, Fig.-7).

(Table-7): States' Contribution in Area & Production –Arhar /Tur

{Area-lakh ha, Production-lakh tons, Yield-kg/ha}

| S.No. | States | Area | % Contri. | Production | % Contri. | Yield |
|-------|------------------|--------------|-----------|--------------|-----------|------------|
| 1 | Maharashtra | 12.61 | 27 | 11.53 | 29 | 914 |
| 2 | Karnataka | 14.53 | 31 | 10.44 | 26 | 719 |
| 3 | Madhya Pradesh | 3.11 | 7 | 3.54 | 9 | 1139 |
| 4 | Uttar Pradesh | 2.81 | 6 | 3.07 | 8 | 1093 |
| 5 | Gujarat | 2.46 | 5 | 2.86 | 7 | 1164 |
| 6 | Jharkhand | 2.29 | 5 | 2.49 | 6 | 1087 |
| 7 | Telangana | 3.12 | 7 | 2.43 | 6 | 779 |
| 8 | Odisha | 1.33 | 3 | 1.39 | 3 | 1047 |
| 9 | Andhra Pradesh | 2.51 | 5 | 0.87 | 2 | 347 |
| 10 | Tamil Nadu | 0.46 | 1 | 0.51 | 1 | 1112 |
| | Others | 1.07 | 2 | 0.93 | 2 | 871 |
| | All India | 46.29 | | 40.07 | | 866 |

Source: DES, Ministry of Agri. & FW (DA&FW), GoI. Normal Area & Prod. (2017-18 to 2021-22).

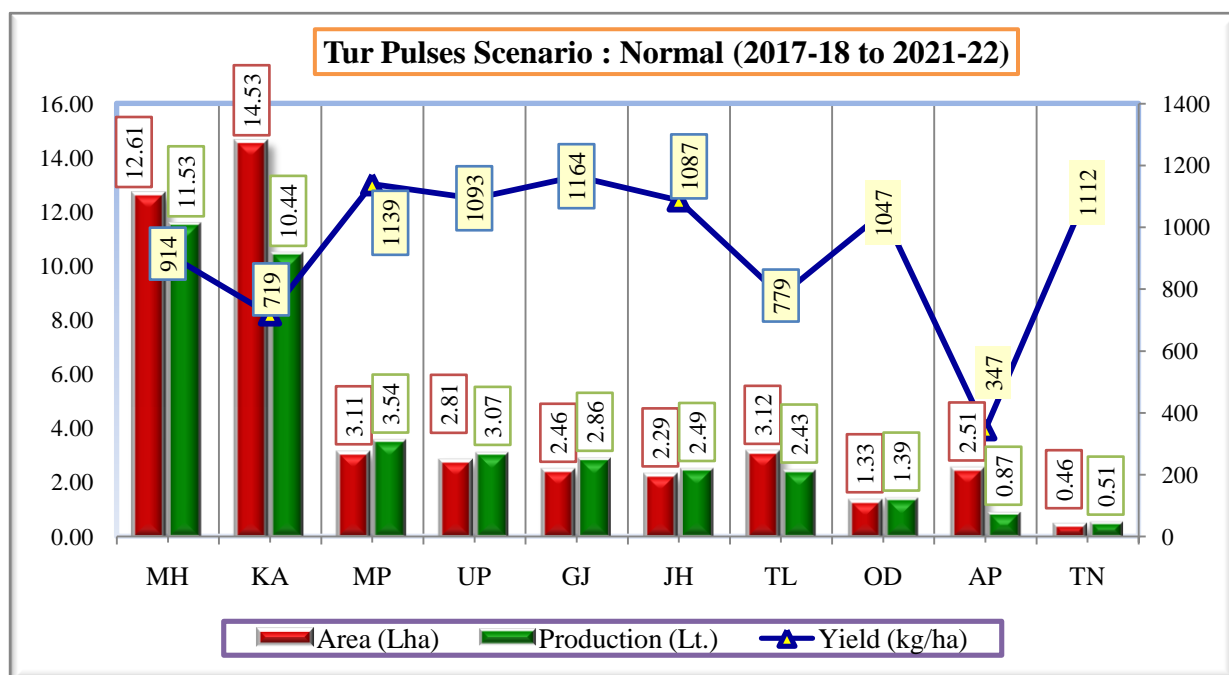


Fig.-7: States' Contribution in Area & Production – Arhar/Tur

1.3.6 Mungbean (Greengram) Scenario : Normal (2017-18 to 2021-22)

- The total coverage under mungbean has been about 49 Lha with a production of 26 Lt. There has been phenomenal increase in area of mungbean in the country from 2016-17 onwards. Rajasthan with 48 per cent area and 42 per cent of production outshined in the total mungbean contribution in the country.
- More than 90 per cent of mungbean production comes from 10 states of Rajasthan, Madhya Pradesh, Maharashtra, Karnataka, Bihar, Gujarat, Andhra Pradesh, Odisha, Tamil Nadu and Uttar Pradesh (Table-8, Fig.-8).

(Table-8): States' Contribution in Area & Production – Mungbean

{Area-lakh ha, Production-lakh tons, Yield-kg/ha}

| S.No. | States | Area | % Contri. | Production | % Contri. | Yield |
|------------------|----------------|--------------|-----------|--------------|-----------|------------|
| 1 | Rajasthan | 23.25 | 48 | 11.16 | 42 | 480 |
| 2 | Madhya Pradesh | 5.08 | 10 | 5.14 | 19 | 1011 |
| 3 | Maharashtra | 4.21 | 9 | 1.83 | 7 | 434 |
| 4 | Karnataka | 4.14 | 9 | 1.50 | 6 | 363 |
| 5 | Bihar | 1.69 | 3 | 1.12 | 4 | 666 |
| 6 | Gujarat | 1.39 | 3 | 0.97 | 4 | 695 |
| 7 | Andhra Pradesh | 1.14 | 2 | 0.86 | 3 | 752 |
| 8 | Odisha | 2.36 | 5 | 0.78 | 3 | 331 |
| 9 | Tamil Nadu | 1.70 | 3 | 0.71 | 3 | 416 |
| 10 | Uttar Pradesh | 0.89 | 2 | 0.54 | 2 | 608 |
| | Others | 2.68 | 6 | 1.87 | 7 | 700 |
| All India | | 48.52 | | 26.48 | | 546 |

Source: DES, Ministry of Agri. & FW (DA&FW), GoI. Normal Area & Prod. (2017-18 to 2021-22).

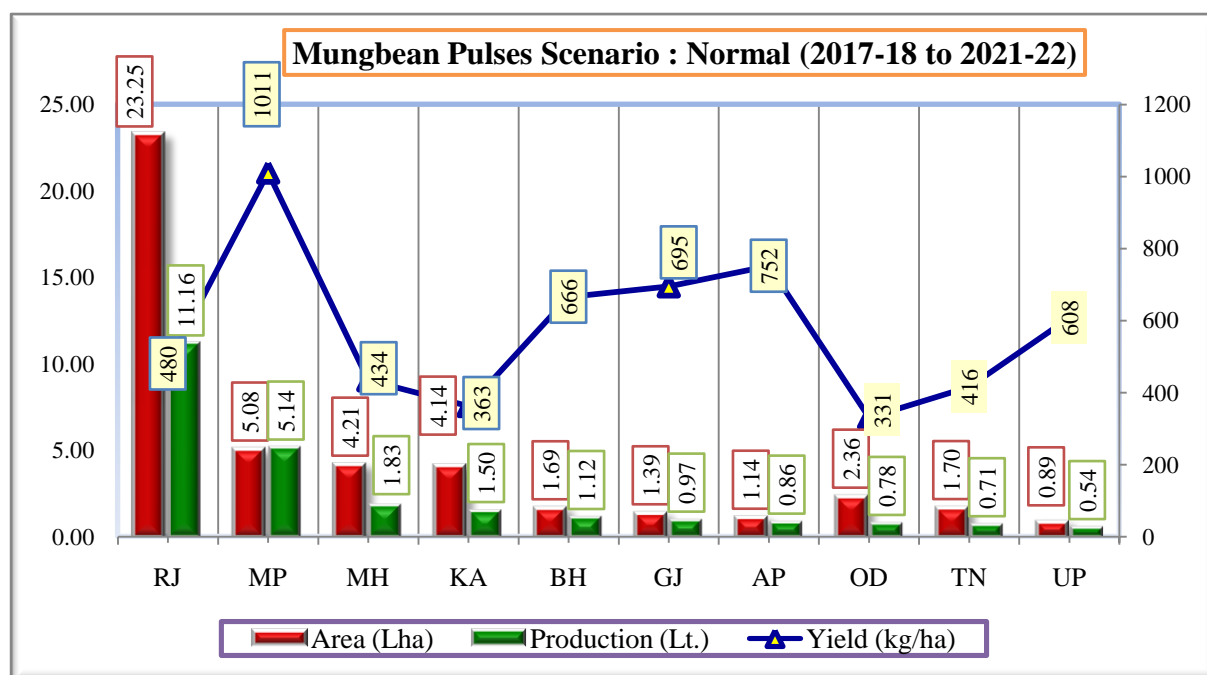


Fig.-8: State's Contribution in Area & Production-Mungbean

1.3.7 Urdbean (Blackgram) Scenario : Normal (2017-18 to 2021-22)

- Urdbean crop is also gaining momentum since 2017-18 and there has been phenomenal increase in its coverage. The crop was cultivated in an area of 48 Lha. Madhya Pradesh ranked 1st both in area and production with 37% and 32% followed by Andhra Pradesh (8% and 13%) & Uttar Pradesh & Rajasthan (12% and 10% of each).
- About 93 per cent of urdbean production comes from 10 states of Madhya Pradesh, Andhra Pradesh, Uttar Pradesh, Tamil Nadu, Rajasthan, Maharashtra, Jharkhand, Gujarat, West Bengal and Karnataka. (Table-9, Fig.-9).

(Table-9): States' Contribution in Area & Production- Urdbean

{Area-lakh ha, Production-lakh tons, Yield-kg/ha}

| S.No. | States | Area | % Contri. | Production | % Contri. | Yield |
|------------------|----------------|--------------|-----------|--------------|-----------|------------|
| 1 | Madhya Pradesh | 18.06 | 37 | 8.75 | 32 | 484 |
| 2 | Andhra Pradesh | 3.64 | 8 | 3.60 | 13 | 990 |
| 3 | Uttar Pradesh | 5.72 | 12 | 2.99 | 10 | 522 |
| 4 | Tamil Nadu | 4.16 | 9 | 2.77 | 10 | 666 |
| 5 | Rajasthan | 5.86 | 12 | 2.68 | 10 | 457 |
| 6 | Maharashtra | 3.74 | 8 | 1.60 | 6 | 427 |
| 7 | Jharkhand | 1.34 | 3 | 1.17 | 4 | 872 |
| 8 | Gujarat | 1.29 | 3 | 0.90 | 3 | 701 |
| 9 | West Bengal | 0.75 | 2 | 0.53 | 2 | 701 |
| 10 | Karnataka | 0.91 | 2 | 0.47 | 2 | 515 |
| | Others | 2.92 | 6 | 1.83 | 7 | 626 |
| All India | | 48.38 | | 27.28 | | 564 |

Source: DES, Ministry of Agri. & FW (DA&FW), GoI. Normal Area & Prod. (2017-18 to 2021-22).

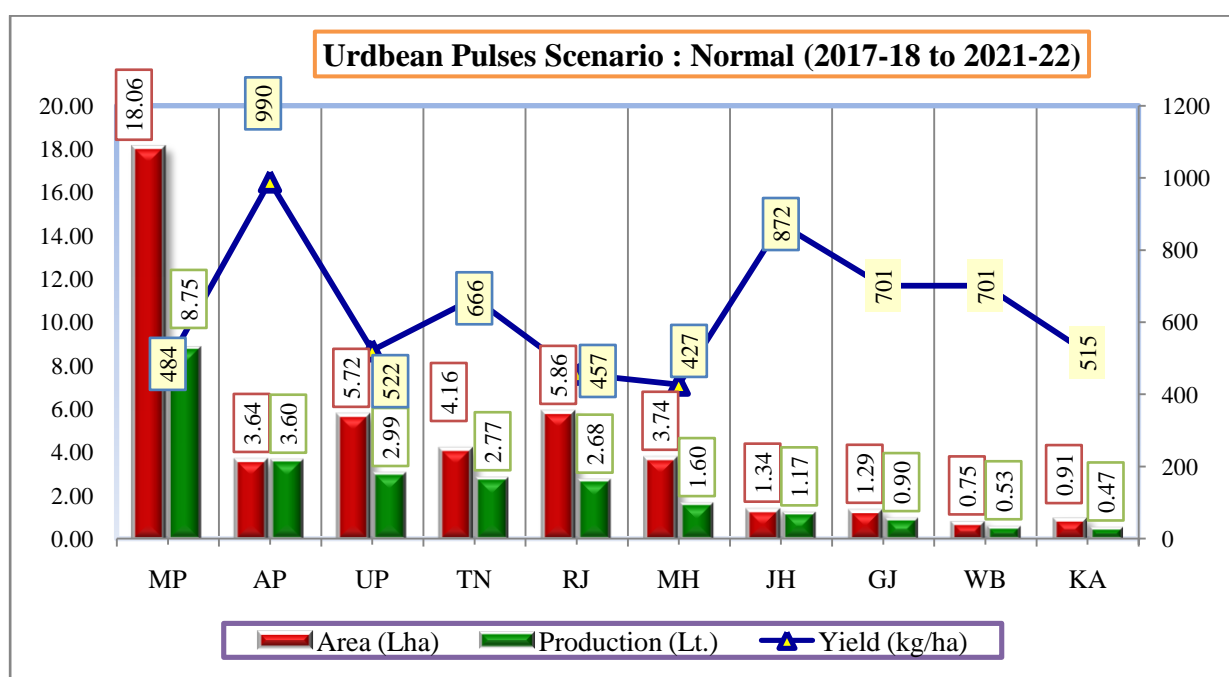


Fig.-9: States' Contribution in Area & Production- Urdbean

1.3.8 Lentil/Masoor Scenario : Normal (2017-18 to 2021-22)

- The crop was cultivated in an area of 14 Lha. Uttar Pradesh ranked 1st both in area (34%) and production with (36%) followed by Madhya Pradesh, West Bengal, Bihar & Jharkhand.
- About 98% has been realized from 08 states of Uttar Pradesh, Madhya Pradesh, West Bengal, Bihar, Jharkhand, Rajasthan, Assam and Uttarakhand (Table-10, Fig.-10).

(Table-10): States’ Contribution in Area & Production-Lentil

{Area-lakh ha, Production-lakh tons, Yield-kg/ha}

| S.No. | States | Area | % Contri. | Production | % Contri. | Yield |
|-------|------------------|--------------|-----------|--------------|-----------|------------|
| 1 | Uttar Pradesh | 4.78 | 34 | 4.77 | 36 | 998 |
| 2 | Madhya Pradesh | 4.86 | 34 | 4.72 | 35 | 971 |
| 3 | West Bengal | 1.62 | 11 | 1.40 | 10 | 863 |
| 4 | Bihar | 1.40 | 10 | 1.27 | 9 | 908 |
| 5 | Jharkhand | 0.65 | 5 | 0.57 | 4 | 877 |
| 6 | Rajasthan | 0.21 | 1 | 0.26 | 2 | 1229 |
| 7 | Assam | 0.25 | 2 | 0.19 | 1 | 751 |
| 8 | Uttarakhand | 0.11 | 1 | 0.09 | 1 | 843 |
| | Others | 0.31 | 2 | 0.17 | 1 | 527 |
| | All India | 14.19 | | 13.43 | | 947 |

Source: DES, Ministry of Agri. & FW (DA&FW), GoI. Normal Area & Prod. (2017-18 to 2021-22).

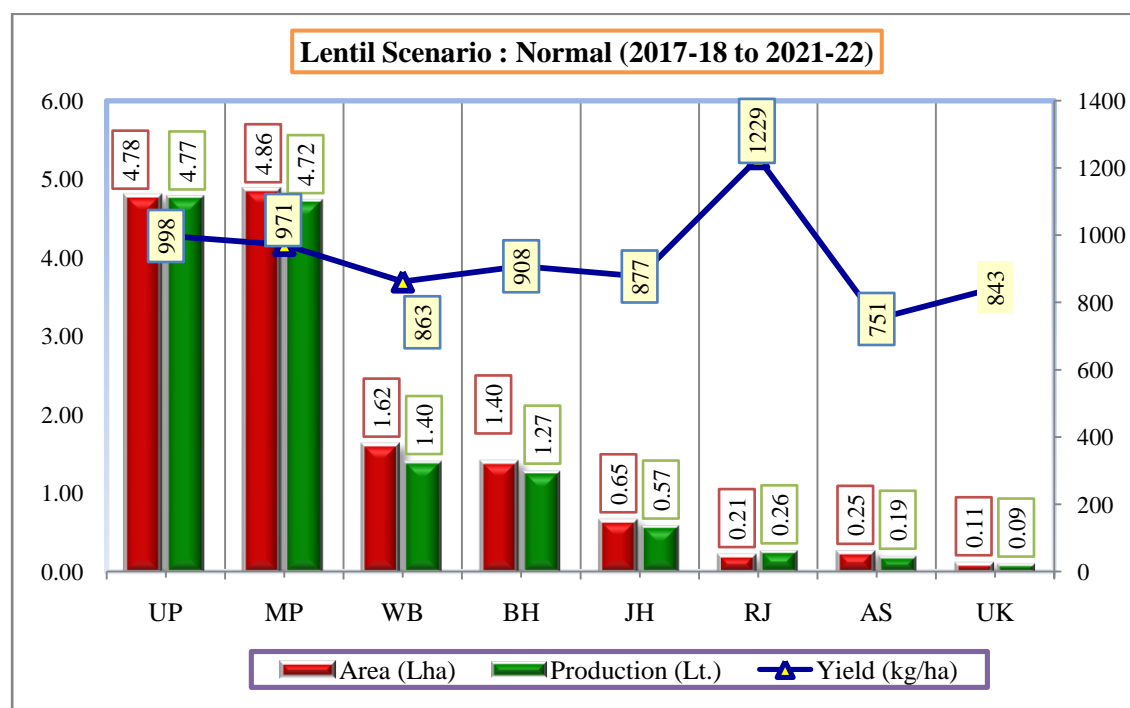


Fig.-10: States’ Contribution in Area & Production-Lentil

1.4 Yearly Growth Rate of Pulses

1.4.1 Yearly Growth Rate of Total Pulses

From 2013-14 to 2021-22, the total acreage under pulses has almost slightly (\pm) being showed, however, the maximum growth rate in area and production was recorded with 18% & 42% during 2016-17 over previous year (2015-16). This trend is continuously maintained with highest area (30.73 Mha) and production (27.30 Mt.) with a productivity of 888 kg/ha was also recorded during 2021-22 and it was ever highest recorded both in area and production in last 08 years (Table 11, Fig.-11).

(Table-11): Yearly Growth Rate of Total Pulses

(Area-Million ha, P- Million tones, Y-kg/ha, Growth Rate (GR)-%)

| Year | Area | YGR | Prod. | YGR | Yield | YGR | % coverage under irrigation |
|-------------|-----------|-----|-----------|-----|-----------|-----|-----------------------------|
| 2013-14 | 25.21 | | 19.25 | | 764 | | 19.89 |
| 2014-15 | 23.54 | -7 | 17.15 | -11 | 728 | -5 | 20.05 |
| 2015-16 | 24.91 | 6 | 16.32 | -5 | 655 | -10 | 19.50 |
| 2016-17 | 29.44 | 18 | 23.12 | 42 | 785 | 20 | 19.08 |
| 2017-18 | 29.81 | 1 | 25.41 | 10 | 852 | 9 | 23.30 |
| 2018-19 | 29.15 | -2 | 22.07 | -13 | 757 | -11 | 23.56 |
| 2019-20 | 27.98 | -4 | 23.02 | 4 | 823 | 9 | 23.10 |
| 2020-21 | 28.78 | 3 | 25.46 | 11 | 885 | 8 | - |
| 2021-22 | 30.73 | 7 | 27.30 | 7 | 888 | 0.4 | - |
| CAGR | 3% | | 4% | | 2% | | 3% |

Note: YGR – Yearly Growth Rate over the Previous Year; **CAGR-** Compound Annual Growth Rate

Source: DES, Min. of Agri. & FW, GoI, (DA&FW).

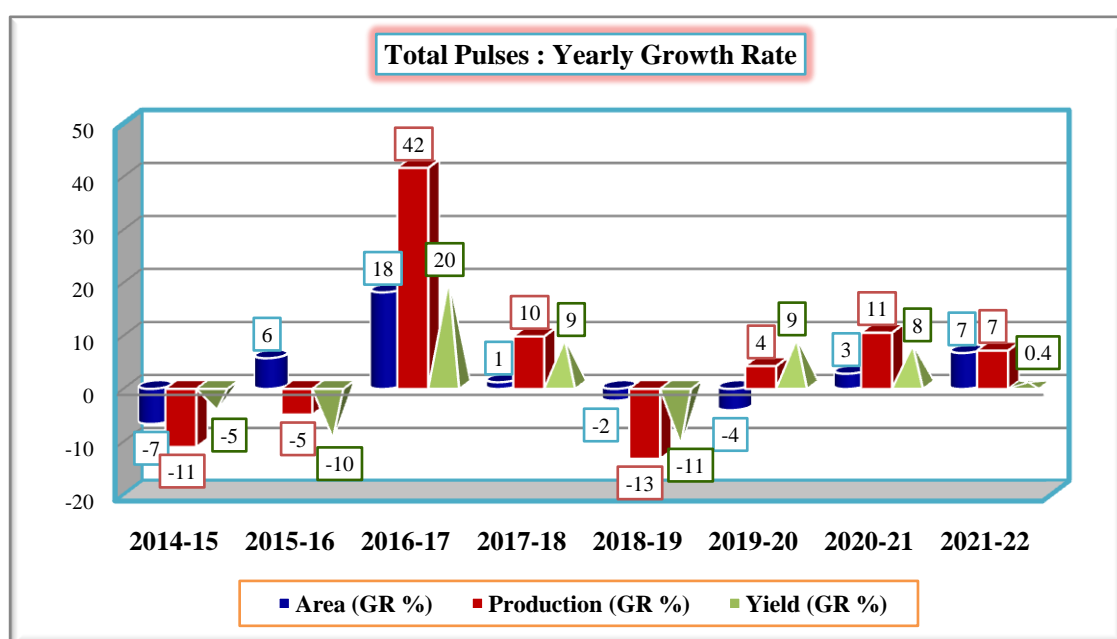


Fig.-11 : Yearly Growth Rate of Total Pulses

1.4.2 Yearly Growth Rate of Tur/Arhar and Gram

- **Tur/Arhar** : From 2013-14 to 2021-22, the total acreage under Tur has almost slightly (\pm) being showed, however, the maximum growth rate in area and production was recorded with 35% & 90% during 2016-17 over previous year (2015-16). The highest area (5.34 Mha) and production (4.87 Mt) was also recorded during the same period (Table – 12, Fig.-12.1).
- **Gram** : From 2013-14 to 2021-22, the total acreage under Gram has almost slightly (\pm) being showed, however, the ever highest area (10.74 Mha) and production (13.54 Mt.) was recorded during 2021-22 followed by 10.56 Mha & 11.38 Mt. during 2017-18 with productivity 1078 kg/ha (Table – 12, Fig.-12.2).

(Table-12): Yearly Growth rate of Tur and Gram

(A- Million ha, P- Million tones, Y-kg/ha, Growth Rate (GR)- %)

| Year | Tur/Arhar | | | | | | Gram | | | | | |
|-------------|-----------|------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
| | Area | YGR | Prod. | YGR | Yield | YGR | Area | YGR | Prod. | YGR | Yield | YGR |
| 2013-14 | 3.90 | | 3.17 | | 813 | | 9.93 | | 9.53 | | 960 | |
| 2014-15 | 3.85 | -1 | 2.81 | -12 | 729 | -10 | 8.25 | -17 | 7.33 | -23 | 889 | -7 |
| 2015-16 | 3.96 | 3 | 2.56 | -9 | 646 | -11 | 8.40 | 2 | 7.06 | -4 | 840 | -5 |
| 2016-17 | 5.34 | 35 | 4.87 | 90 | 913 | 41 | 9.63 | 15 | 9.38 | 33 | 974 | 16 |
| 2017-18 | 4.44 | -17 | 4.29 | -12 | 967 | 6 | 10.56 | 10 | 11.38 | 21 | 1078 | 11 |
| 2018-19 | 4.55 | 3 | 3.32 | -23 | 729 | -25 | 9.55 | -10 | 9.94 | -13 | 1041 | -3 |
| 2019-20 | 4.53 | -0.4 | 3.89 | 17 | 859 | 18 | 9.70 | 2 | 11.08 | 11 | 1142 | 10 |
| 2020-21 | 4.72 | 4 | 4.32 | 11 | 914 | 6 | 10.00 | 3 | 11.91 | 8 | 1192 | 4 |
| 2021-22 | 4.90 | 4 | 4.22 | -2 | 861 | -6 | 10.74 | 7 | 13.54 | 14 | 1261 | 6 |
| CAGR | 3% | | 4% | | 1% | | 1% | | 4% | | 3% | |

Note: YGR – Yearly Growth Rate over the Previous Year; **CAGR-** Compound Annual Growth Rate

Source: DES, Min. of Agri. & FW, GoI, (DA&FW).

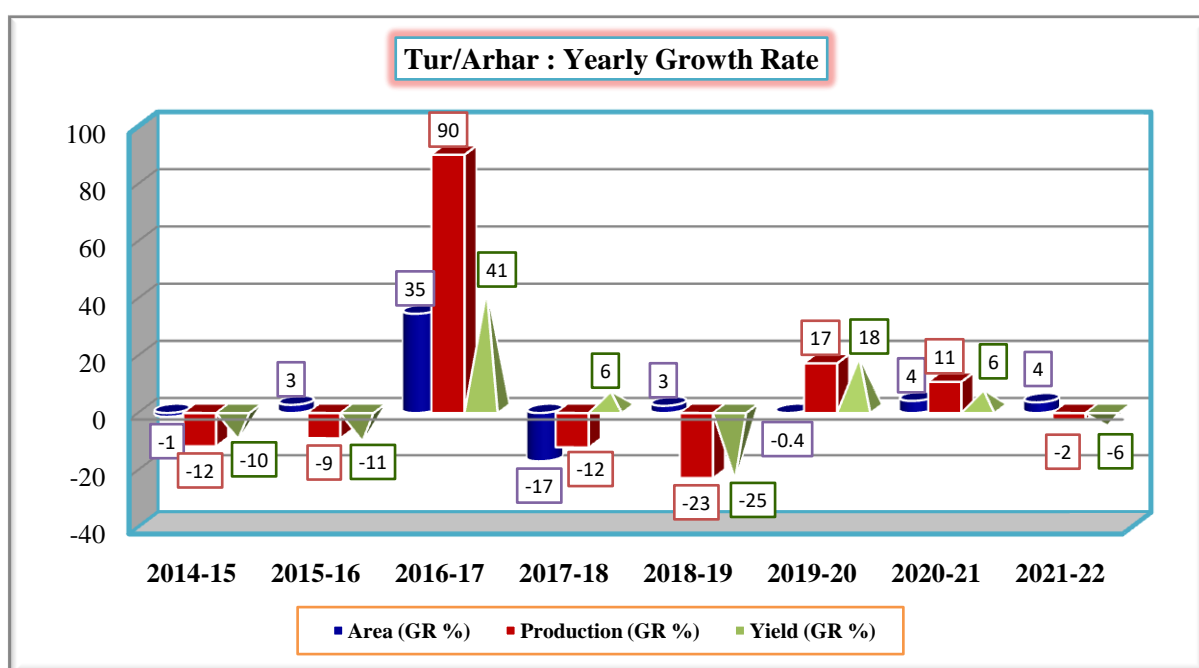


Fig. – 12.1 : Yearly Growth Rate of Tur/ Arhar

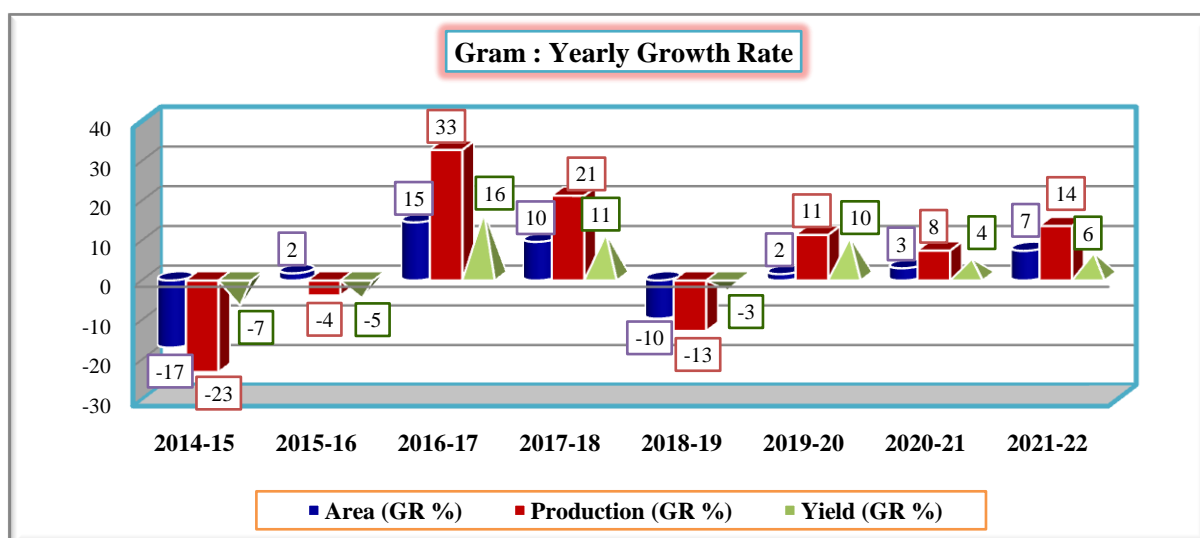


Fig. – 12.2 : Yearly Growth Rate of Gram

1.4.3 Yearly Growth Rate of Mungbean and Urdbean

- **Mungbean** : From 2013-14 to 2021-22, the total acreage under Mungbean has almost slightly (\pm) being showed, however, the maximum growth rate in production and productivity was recorded during 2016-17 & 2020-21 over previous year, whereas, the ever highest area (5.55 Mha), Production (3.17 Mt) was recorded during the 2021-22 (Table-13, Fig. – 13.1).
- **Urdbean** : From 2013-14 to 2021-22, the total acreage under Urdbean has almost slightly (\pm) being showed, however, the maximum growth rate in production and productivity was recorded during 2016-17 over previous year, whereas, the ever highest area (5.60 Mha) was recorded during the 2018-19 (Table-13, Fig. – 13.2).

(Table-13): Yearly Growth rate of Mungbean and Urdbean

(Area- Million ha, P- Million tones, Y-kg/ha, Growth Rate (GR)- %)

| Year | Mungbean | | | | | | Urdbean | | | | | |
|-------------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
| | Area | YGR | Prod. | YGR | Yield | YGR | Area | YGR | Prod. | YGR | Yield | YGR |
| 2013-14 | 3.38 | | 1.61 | | 475 | | 3.06 | | 1.70 | | 555 | |
| 2014-15 | 3.02 | -11 | 1.50 | -6 | 498 | 5 | 3.25 | 6 | 1.96 | 15 | 604 | 9 |
| 2015-16 | 3.83 | 27 | 1.59 | 6 | 416 | -16 | 3.62 | 12 | 1.95 | -1 | 537 | -11 |
| 2016-17 | 4.33 | 13 | 2.17 | 36 | 500 | 20 | 4.48 | 24 | 2.83 | 46 | 632 | 18 |
| 2017-18 | 4.24 | -2 | 2.02 | -7 | 477 | -5 | 5.28 | 18 | 3.49 | 23 | 662 | 5 |
| 2018-19 | 4.75 | 12 | 2.46 | 21 | 516 | 8 | 5.60 | 6 | 3.06 | -12 | 546 | -17 |
| 2019-20 | 4.58 | -4 | 2.51 | 2 | 548 | 6 | 4.53 | -19 | 2.08 | -32 | 459 | -16 |
| 2020-21 | 5.13 | 12 | 3.09 | 23 | 601 | 10 | 4.14 | -9 | 2.23 | 7 | 538 | 17 |
| 2021-22 | 5.55 | 8 | 3.17 | 3 | 570 | -5 | 4.63 | 12 | 2.78 | 25 | 599 | 11 |
| CAGR | 6% | | 9% | | 2% | | 5% | | 6% | | 1% | |

Note: YGR – Yearly Growth Rate over the Previous Year; CAGR- Compound Annual Growth Rate

Source: DES, Min. of Agri. & FW, GoI, (DA&FW).

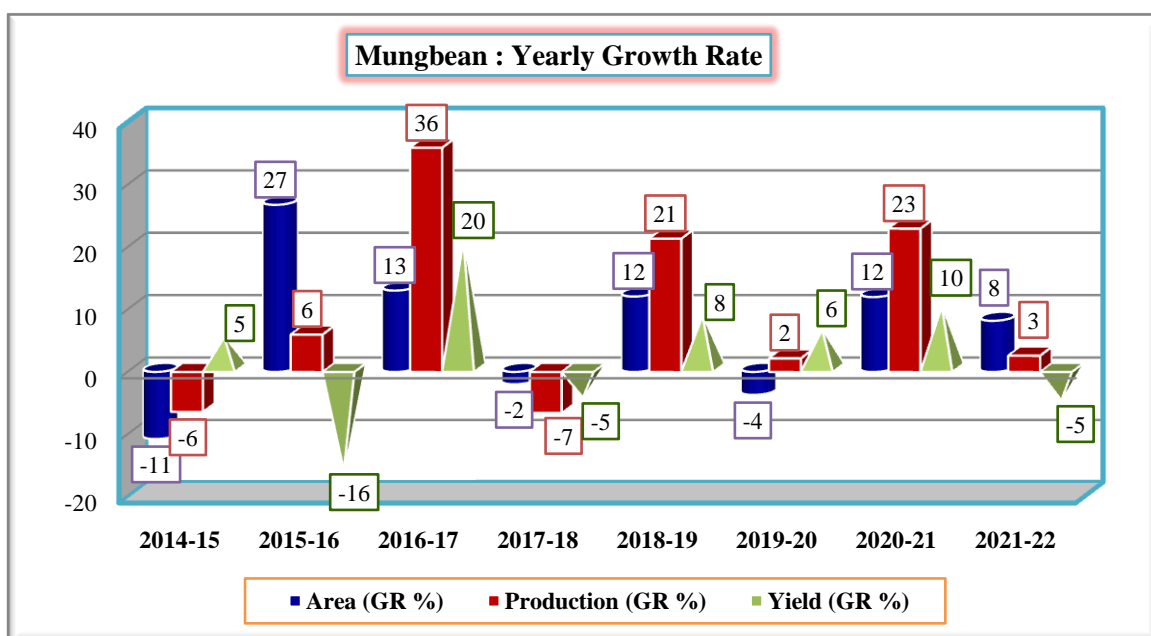


Fig. - 13.1 : Yearly Growth rate of Mungbean

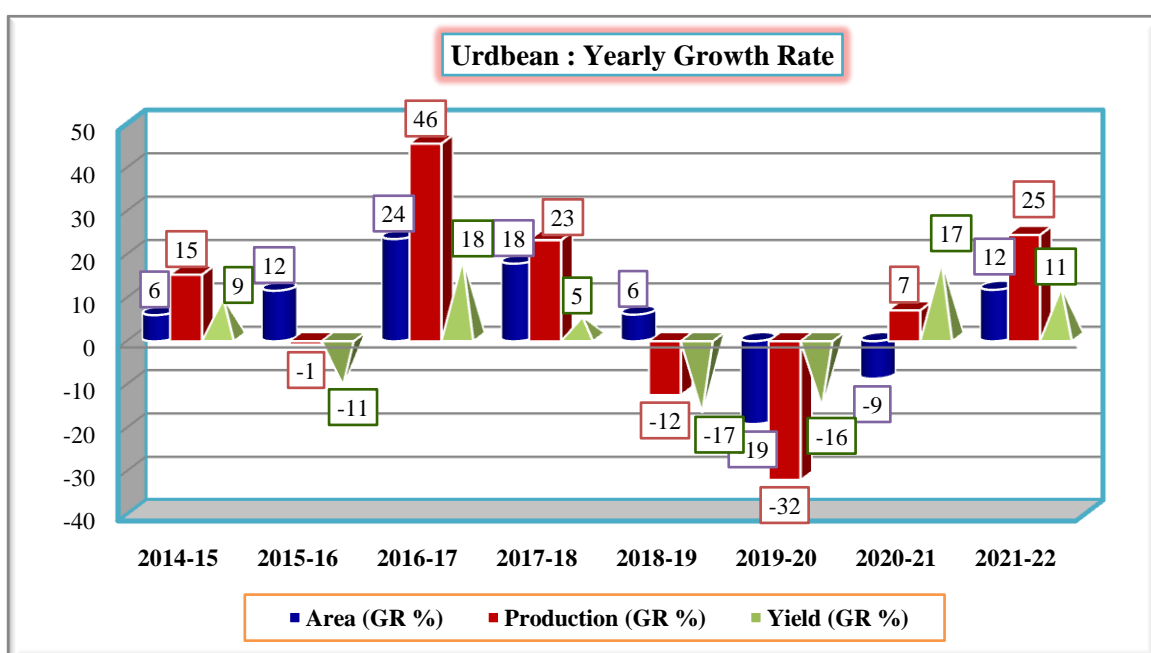


Fig.- 13.2: Yearly Growth rate of Urdbean

1.4.4 Yearly Growth Rate : Lentil and Fieldpea

Lentil : From 2013-14 to 2021-22, maximum growth rate is observed during 2020-21 in Area (13%), production (35%) and in productivity (20%) than previous year (Table- 14, Fig.- 14.1).

Fieldpea: Maximum growth for acreage reported during 2016-17 (17%) and production (36%) over previous year 2015-16 and also recorded ever highest in APY in last 07 years (Table- 14, Fig.- 14.2).

(Table-14) Yearly Growth rate of Lentil and Fieldpea

(Area- Million ha, P- Million tones, Y-kg/ha, Growth Rate (GR)- %)

| Year | Lentil | | | | | | Fieldpea | | | | | |
|-------------|-----------|-----|-----------|-----|-----------|-----|------------|-----|------------|-----|-----------|-----|
| | Area | YGR | Prod. | YGR | Yield | YGR | Area | YGR | Prod. | YGR | Yield | YGR |
| 2013-14 | 1.34 | | 1.02 | | 759 | | 0.96 | | 0.92 | | 960 | |
| 2014-15 | 1.47 | 10 | 1.04 | 2 | 705 | -7 | 0.98 | 1 | 0.89 | -4 | 912 | -5 |
| 2015-16 | 1.28 | -13 | 0.98 | -6 | 765 | 9 | 0.90 | -7 | 0.74 | -17 | 821 | -10 |
| 2016-17 | 1.46 | 15 | 1.22 | 25 | 838 | 10 | 1.06 | 17 | 1.01 | 36 | 955 | 16 |
| 2017-18 | 1.55 | 6 | 1.62 | 33 | 1047 | 25 | 0.83 | -22 | 0.99 | -2 | 1204 | 26 |
| 2018-19 | 1.36 | -12 | 1.23 | -24 | 901 | -14 | 0.61 | -26 | 0.81 | -18 | 1338 | 11 |
| 2019-20 | 1.30 | -4 | 1.10 | -10 | 847 | -6 | 0.60 | -2 | 0.86 | 6 | 1440 | 8 |
| 2020-21 | 1.47 | 13 | 1.49 | 35 | 1017 | 20 | 0.64 | 7 | 0.88 | 2 | 1375 | -5 |
| 2021-22 | 1.41 | -4 | 1.27 | -15 | 899 | -12 | - | - | - | - | - | - |
| CAGR | 1% | | 3% | | 2% | | -6% | | -1% | | 5% | |

Note: YGR – Yearly Growth Rate over the Previous Year; CAGR- Compound Annual Growth Rate

Source: DES, Min. of Agri. & FW, GoI, (DA&FW).

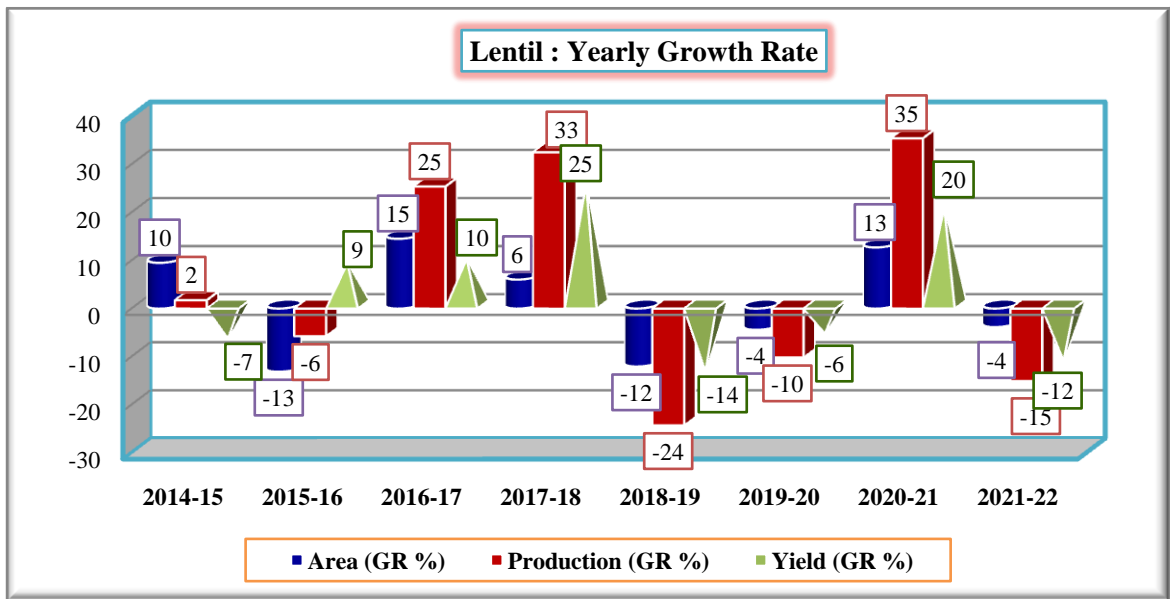


Fig. – 14.1 : Yearly Growth rate of Lentil

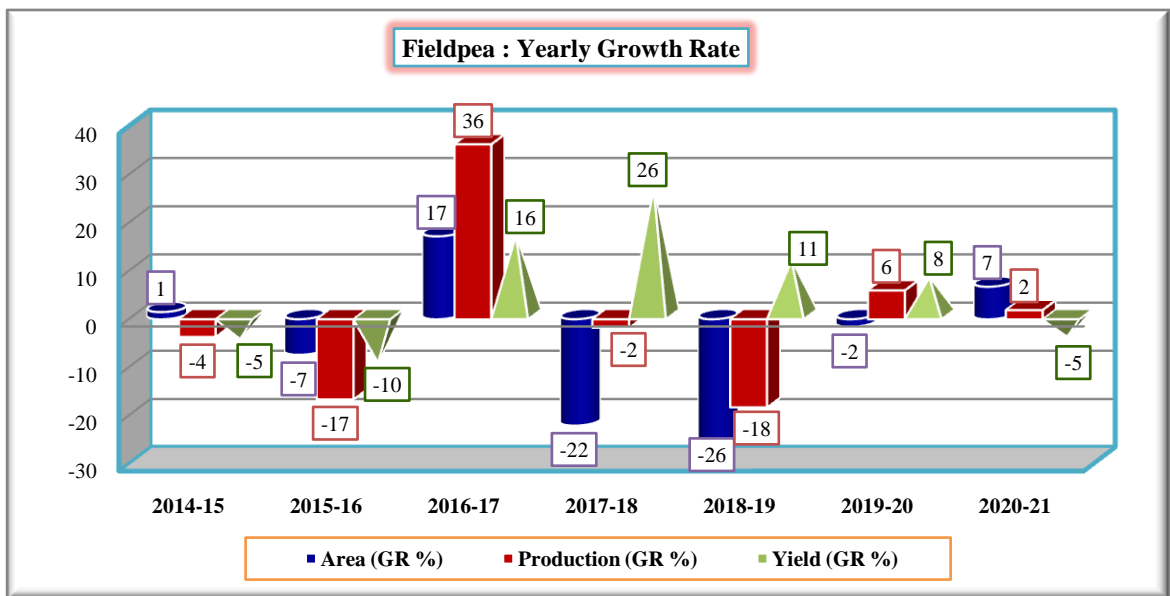


Fig. – 14.2: Yearly Growth rate of Fieldpea

Unit – II

National Pulses Availability and Global Trade Scenario

2.1 Per capita availability of pulses in India

- As a result of self sufficiency in pulses production and continuous increase in population, the per capita availability of pulses has almost slightly (\pm) being showed. The *per capita* per day availability of pulses in 2013 was 43 g that increase to a provisional level of 45 g in the year 2021. The *per capita* per year availability shows the same increasing trend from 15.8 kg in 2013 to 16.4 kg in 2021.

Per capita availability enhanced during 2017-18. In conformity to FSA- 2013 to ensure nutritional security to vegetarian population, the per capita per day availability of pulses is attend at the level of 55 g per head/day *i.e* 20 kg/annum/person (Table-15, Fig.-15).

(Table- 15): Per capita availability of pulses in India

| Year | Pulses Availability | |
|----------|------------------------|--------------------------|
| | (g per capita per day) | (kg per capita per year) |
| 2013 | 43.29 | 15.80 |
| 2014 | 46.30 | 16.90 |
| 2015 | 43.84 | 16.00 |
| 2016 | 43.01 | 15.70 |
| 2017 | 54.79 | 20.00 |
| 2018 | 51.23 | 18.70 |
| 2019 | 42.47 | 17.20 |
| 2020 | 43.84 | 17.50 |
| 2021 (P) | 44.93 | 16.40 |

Note: 2021 (P) - Provisional figures are based on 4th Advance Estimates of Production for 2020-21, Net imports during Apr. 2020- Mar. 2021 and Stock position as on 27-10-2021.

Source: Directorate of Economics and Statistics, Min. of Agriculture & FW, GoI, (DA&FW).

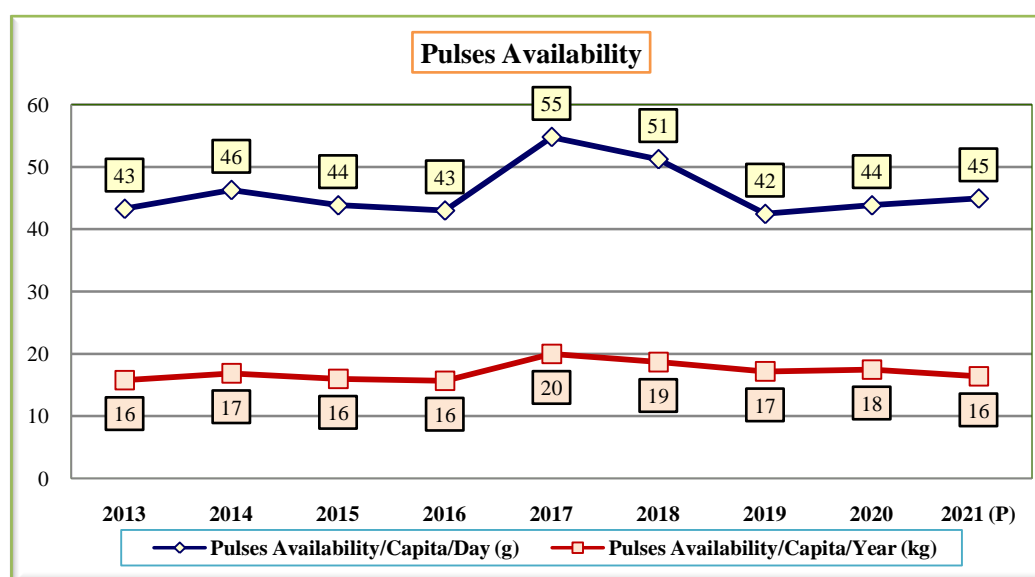


Fig.- 15 : Per capita availability of pulses in India

2.2 Pulses Import/Export and Availability

Import: From the year 2017-18 to 2021-22, the mixed trend of pulses import was observed. The pulses import range was 23.16 to 56.08 Lakh tonn during last five year and highest import was reported in 2017-18 (56.08 Lakh tonn). Overall, there has been a decline scenario/trend observed in pulses importing and saving foreign currency (Table 16).

(Unit-Lakh Tonnes)

| Crop | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
|---------------------|--------------|--------------|--------------|--------------|--------------|
| Peas /Matar | 4.13 | 8.51 | 6.67 | 0.46 | 0.01 |
| Gram/Chana | 28.77 | 1.86 | 3.71 | 2.95 | 2.02 |
| Mung | 9.81 | 0.84 | 0.69 | 0.82 | 1.96 |
| Urd | 3.47 | 4.90 | 3.12 | 3.35 | 6.12 |
| Lentil/Masur | 7.97 | 2.49 | 8.54 | 11.16 | 6.67 |
| Tur/Arhar | 1.93 | 5.31 | 4.50 | 4.43 | 8.40 |
| Total Pulses | 56.08 | 23.91 | 27.23 | 23.16 | 25.18 |

Export: From 2017-18 to 2021-22, there was slight changes observed in pulses exports. The lowest exports were made in the year 2017-18. The export trend hike about 34% over the previous year.

(Unit-Lakh Tonnes)

| Crop | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 |
|---------------------|-------------|-------------|-------------|-------------|-------------|
| Peas /Matar | 0.11 | 0.02 | 0.03 | 0.09 | 0.57 |
| Gram/Chana | 0.04 | 2.29 | 1.34 | 1.59 | 1.15 |
| Mung | 1.28 | 0.11 | 0.13 | 0.13 | 0.28 |
| Urd | 0.17 | 0.07 | 0.09 | 0.15 | 0.55 |
| Lentil/Masur | 0.12 | 0.15 | 0.20 | 0.18 | 0.21 |
| Tur/Arhar | 0.08 | 0.09 | 0.11 | 0.19 | 0.36 |
| Total Pulses | 1.79 | 2.74 | 1.90 | 2.32 | 3.12 |

{Chickpeas contributes the single largest share in India's export basket of pulses registering 54% share in the total pulses export during 2017-18 to 2021-22 followed by Mung (16%), Urd (9%), Pea, Lentil and Tur (7%) respectively}.

(Table- 16): India's Imports and Exports of pulses

(Quantity – Lakh tonnes, Values -Crore)

| Year | Import | | Exports | |
|---------|-----------------|--------------|-----------------|--------------|
| | Import Quantity | Import Value | Export Quantity | Export Value |
| 2017-18 | 56.08 | 19548.42 | 1.79 | 2888.06 |
| 2018-19 | 23.91 | 7232.73 | 2.74 | 1721.60 |
| 2019-20 | 27.23 | 9235.97 | 1.90 | 1147.45 |
| 2020-21 | 23.16 | 10923.13 | 2.32 | 1639.50 |
| 2021-22 | 25.18 | 14131.30 | 3.12 | 2023.63 |

Source: DGCI&S, Ministry of Commerce & Industry, Kolkata.

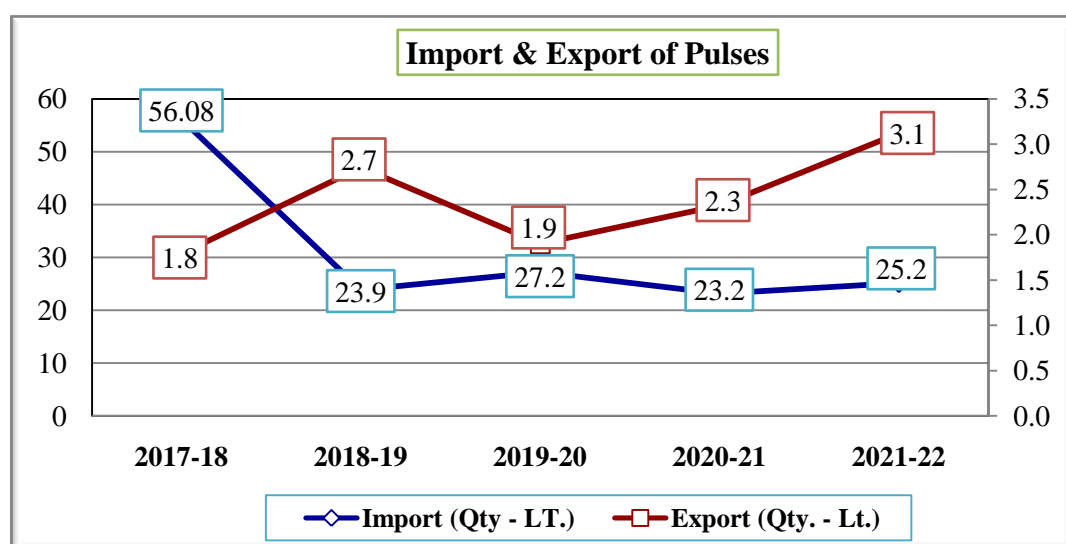


Fig.- 16 India's Import & Export of Pulses

(Table- 17): India's Imports and Exports of pulses v/s agriculture

(Rs.in Crore)

| Year | Import | | | | | Exports | | | | |
|---------|--------------|------------|-------------------|---------------|------------------------|--------------|------------|-------------------|---------------|------------------------|
| | Total Pulses | | Total Agriculture | | Total National Imports | Total Pulses | | Total Agriculture | | Total National Exports |
| | Actual Value | % to Agri. | Actual Value | % to National | | Actual Value | % to Agri. | Actual Value | % to National | |
| 2014-15 | 17063 | 14.1 | 121319 | 4.4 | 2736676 | 1218 | 0.5 | 239681 | 12.6 | 1896348 |
| 2015-16 | 25619 | 18.3 | 140289 | 5.6 | 2490303 | 1656 | 0.8 | 215396 | 12.5 | 1716384 |
| 2016-17 | 28523 | 17.3 | 164726 | 6.4 | 2577671 | 1271 | 0.6 | 226652 | 12.3 | 1849433 |
| 2017-18 | 18748 | 12.3 | 152095 | 5.1 | 3001028 | 1470 | 0.6 | 251563 | 12.9 | 1956514 |
| 2018-19 | 7233 | 5.3 | 137019 | 3.8 | 3594674 | 1722 | 0.6 | 274571 | 11.9 | 2307726 |
| 2019-20 | 9236 | 6.3 | 147446 | 4.4 | 3360954 | 1147 | 0.5 | 252976 | 11.4 | 2219854 |
| 2020-21 | 10923 | 7.1 | 154510 | 5.3 | 2915958 | 1639 | 0.5 | 308830 | 14.3 | 2159043 |

Source: DGCI&S, Ministry of Commerce and Industry, Kolkata.

2.3 India's Import & Export Trade of Major Pulses (2021-22)

| S.No. | Crop | Major countries (In terms of Quantity) | |
|-------|----------------|--|---|
| | | Major Import Sources | Major Export Destinations |
| 1 | Pea | (100% contribution) i) UAE (65%) ii) Canada (32%) iii) USA (3%) | (100% contribution) i) UAE (87%); ii) Thailand (4%); China (4%); iii) Iran (1%); iv) Bangladesh (1%); v) Nepal (1%) |
| 2 | Lentil | (99% contribution) i) Canada (78%) ii) Australia (20%) iii) UAE (1%) | (95% contribution) i) UAE (61%); ii) Bhutan (8%); iii) Bangladesh (8%); iv) Netherland (6%); v) Nepal (5%); vi) USA (3%), vii) Kenya (1%), viii) Qatar (1%), ix) Japan (1%) |
| 3 | Tur/Pigeon pea | (98% contribution) i) Mozambique (38%) ii) Myanmar (24%) iii) Tanzania (23%) iv) Malawi (7%) v) Sudan (6%) | (100% contribution) i) UAE (60%); ii) USA (13%); iii) Nepal (9%); iv) Canada (6%); v) Malaysia (2%); vi) Singapore (2%); UK (2%); vii) Qatar (2%) viii) Australia (1%) |

| S.No. | Crop | Major countries (In terms of Quantity) | |
|-------|----------|--|---|
| | | Major Import Sources | Major Export Destinations |
| 4 | Urdbean | (99% contribution) i) Myanmar (96%) ii) Singapore (3%) | (94% contribution) i) China (44%); ii) Nepal (14%); iii) USA (13%); iv) Canada (9%); v) UK (6%); vi) Qatar (2%); vii) UAE (2%); viii) Netherland (2%); ix) Djibouti (1%). |
| 5 | Mungbean | (96% contribution) : i) Mozambique (32%); ii) Tanzania (16%); iii) Myanmar (16%); iv) Afghanistan (11%); v) Brazil (7%); vi) Argentina (4%); vii) UAE (3%); viii) Kenya (3%); ix) South Africa (3%). | (88% contribution) i) China (44%); ii) Nepal (14%); iii) USA (13%); iv) Canada (9%); v) UK (6%); vi) Qatar (2%); vii) UAE (2%); viii) Netherland (2%); ix) Djibouti (1%); Singapore (1%). |

Source: Deptt. of Commerce, Min. of Commerce & Industry, GoI. (%) figures in parenthesis indicates percentage share of global import/export. ;

2.4 Availability Status: Total Pulses & Crop-Wise (2015-16 to 2021-22)

Crop-wise availability of Pigeonpea, Chickpea, Lentil, Mungbean and Urdbean based on domestic production, import and export is summarized under *Table 18*. It is evident from table that the domestic availability of pulses has increased by 40% in Total pulses and 29% in Gram during 2017-18, 53% in Tur, 85% in Fieldpea during 2016-17, Lentil by 50% in 2020-21, Mung & Urd 55% in 2018-19 over 2013-14.

(Table-18): Import, Export and Availability

(Unit-Lakh Tonnes)

| Crop | Year | Production | Import | Export | Availability | Total Availability for Domestic Consumption |
|---------------|---------|------------|--------|--------|--------------|---|
| Tur/ Arhar | 2015-16 | 25.61 | 4.63 | 0.04 | 30.24 | 30.20 |
| | 2016-17 | 48.73 | 7.04 | 0.12 | 55.77 | 55.64 |
| | 2017-18 | 42.90 | 4.13 | 0.11 | 47.03 | 46.92 |
| | 2018-19 | 33.15 | 5.31 | 0.09 | 38.46 | 38.37 |
| | 2019-20 | 38.92 | 4.50 | 0.11 | 43.42 | 43.31 |
| | 2020-21 | 43.16 | 4.43 | 0.19 | 47.59 | 47.40 |
| | 2021-22 | 42.20 | 8.40 | 0.36 | 50.61 | 50.25 |
| Gram | 2015-16 | 70.58 | 10.31 | 2.17 | 80.89 | 78.72 |
| | 2016-17 | 93.78 | 10.81 | 0.88 | 104.58 | 103.71 |
| | 2017-18 | 113.79 | 9.81 | 1.28 | 123.61 | 122.32 |
| | 2018-19 | 99.38 | 1.85 | 1.73 | 101.23 | 99.50 |
| | 2019-20 | 110.79 | 3.69 | 0.79 | 114.48 | 113.69 |
| | 2020-21 | 119.11 | 2.94 | 1.24 | 122.05 | 120.81 |
| | 2021-22 | 135.44 | 2.02 | 0.96 | 137.45 | 136.49 |
| Mung | 2015-16 | 15.93 | 0.87 | 0.04 | 16.80 | 16.76 |
| | 2016-17 | 21.65 | 0.86 | 0.06 | 22.52 | 22.45 |
| | 2017-18 | 20.23 | 0.52 | 0.10 | 20.75 | 20.65 |
| | 2018-19 | 24.55 | 0.84 | 0.11 | 25.39 | 25.28 |
| | 2019-20 | 25.09 | 0.69 | 0.13 | 25.78 | 25.65 |
| | 2020-21 | 30.85 | 0.82 | 0.13 | 31.67 | 31.54 |

| Crop | Year | Production | Import | Export | Availability | Total Availability for Domestic Consumption |
|--------------------------|----------|------------|--------|--------|--------------|---|
| | 2021-22 | 31.66 | 1.96 | 0.28 | 33.61 | 33.34 |
| Urad | 2015-16 | 19.45 | 4.94 | 0.03 | 24.40 | 24.37 |
| | 2016-17 | 28.32 | 4.88 | 0.04 | 33.20 | 33.16 |
| | 2017-18 | 34.92 | 2.95 | 0.07 | 37.87 | 37.81 |
| | 2018-19 | 30.60 | 4.90 | 0.07 | 35.50 | 35.43 |
| | 2019-20 | 20.81 | 3.12 | 0.09 | 23.93 | 23.85 |
| | 2020-21 | 22.30 | 3.35 | 0.15 | 25.64 | 25.49 |
| | 2021-22 | 27.76 | 6.12 | 0.55 | 33.88 | 33.32 |
| Lentils/ Masur | 2015-16 | 9.76 | 12.60 | 0.12 | 22.36 | 22.24 |
| | 2016-17 | 12.24 | 8.29 | 0.16 | 20.53 | 20.38 |
| | 2017-18 | 16.22 | 7.97 | 0.12 | 24.18 | 24.07 |
| | 2018-19 | 12.28 | 2.49 | 0.15 | 14.77 | 14.62 |
| | 2019-20 | 11.03 | 8.54 | 0.20 | 19.57 | 19.38 |
| | 2020-21 | 14.94 | 11.16 | 0.18 | 26.10 | 25.92 |
| | 2021-22 | 12.69 | 6.67 | 0.21 | 19.36 | 19.15 |
| Peas | 2015-16 | 7.42 | 22.45 | 0.06 | 29.87 | 29.81 |
| | 2016-17 | 10.11 | 31.73 | 0.08 | 41.84 | 41.76 |
| | 2017-18 | 9.93 | 28.77 | 0.04 | 38.70 | 38.66 |
| | 2018-19 | 8.12 | 8.51 | 0.02 | 16.63 | 16.61 |
| | 2019-20 | 8.60 | 6.67 | 0.03 | 15.27 | 15.24 |
| | 2020-21 | 8.77 | 0.46 | 0.09 | 9.23 | 9.14 |
| | 2021-22# | 11.99 | 0.01 | 0.57 | 11.99 | 11.43 |
| Other Pulses | 2015-16 | 14.49 | 2.50 | 0.01 | 16.99 | 16.97 |
| | 2016-17 | 16.48 | 2.37 | 0.01 | 18.85 | 18.85 |
| | 2017-18 | 16.17 | 2.10 | 0.03 | 18.27 | 18.24 |
| | 2018-19 | 12.68 | 2.01 | 0.11 | 14.69 | 14.57 |
| | 2019-20 | 15.02 | 2.23 | 0.11 | 17.25 | 17.14 |
| | 2020-21 | 15.51 | 1.65 | 0.34 | 17.16 | 16.81 |
| | 2021-22 | 11.29 | 2.43 | 0.34 | 13.71 | 13.37 |
| Total Pulses Crops | 2015-16 | 163.23 | 58.31 | 2.47 | 221.55 | 219.07 |
| | 2016-17 | 231.31 | 65.98 | 1.34 | 297.29 | 295.95 |
| | 2017-18 | 254.16 | 56.25 | 1.75 | 310.41 | 308.67 |
| | 2018-19 | 220.76 | 25.91 | 2.30 | 246.67 | 244.37 |
| | 2019-20 | 230.25 | 29.45 | 1.46 | 259.70 | 258.24 |
| | 2020-21 | 254.63 | 24.81 | 2.32 | 279.44 | 277.12 |
| | 2021-22 | 273.02 | 27.60 | 3.27 | 300.62 | 297.35 |

Source: Production- DES, GoI, Import & Export- Ministry of Commerce & Industry.

Calculated as per its share in Rabi Pulses, since the DES figures are not available for Peas during these years.

2.5 Global Scenario: Crop-Wise (2021-22)

The total world acreage under pulses as recorded during 2021 is about 954.39 Lha with production at 889.67 Lt. and productivity 932 kg/ha (Table-19, Fig.-19).

In the world, pulses are grown by 171 countries. Beansdry was cultivated by 104 countries, which contributed about 38 % area to total world area, Gram by 47 contributed about 16%, Cowpea by 37 contributed 16%, Peasdry by 96 contributed 7%, Tur by 24 contributed 7% and Lentil by 43 contributed by 6%. The share to World production of Beans dry was 31% followed by Gram 18%, Peas 14%, Cowpeas 10%, Lentil 6% and Tur 6%.

(Table-19): Global Ranking: Crop-wise

| Crop | Area | % Contri. | {Area-lakh ha, Production-lakh tonnes, Yield-kg/ha} | | Country's Rank | |
|---------------------|---------------|-----------|---|-----------|----------------|-----------------------|
| | | | Production | % Contri. | | |
| Gram | 150.05 | 16 | 158.72 | 18 | 1058 | 1 st |
| Tur/Arhar | 63.57 | 7 | 54.77 | 6 | 862 | 1 st |
| Lentil | 55.86 | 6 | 56.10 | 6 | 1004 | 2 nd |
| Peas | 70.44 | 7 | 124.04 | 14 | 1761 | 4 th |
| Beans Dry | 359.21 | 38 | 277.15 | 31 | 772 | 1 st |
| Cowpeas | 149.11 | 16 | 89.86 | 10 | 603 | - |
| Others | 106.16 | 11 | 129.03 | 15 | 1215 | - |
| Total Pulses | 954.39 | | 889.67 | | 932 | 1st |

Source: FAO Statistics 2021.

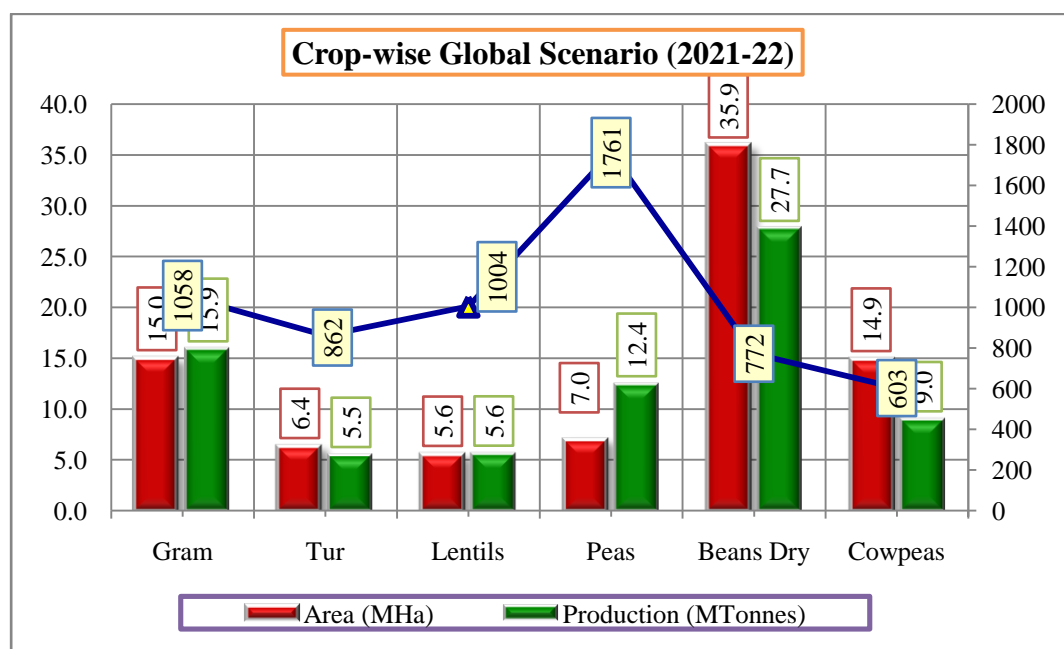


Fig.-19: Crop-wise Global Scenario

Unit –III

Major Interface /Coordination /Extension Activities

3.1 Meetings/Workshop/Conference/ Trainings (01.04.2022 to 31.03.2023)

| Purpose/Theme |
|---|
| <ul style="list-style-type: none"> • Meeting to discuss on “Farming strategy for revival of sunflower cultivation and to analyze reason for reduction in area of Sunflower” under Chairmanship of Agriculture Commissioner on (05th April, 2022). • 17th Meeting of General Council (GC) of National Food Security Mission (NFSM) scheduled to be held under the chairmanship of Hon'ble Union Minister of Agriculture & Farmers Welfare on (25th April, 2022). • Organized “Kisan Bhagidari Prathmikta Hamari” Campaign under Azadi Ka Amrit Mahotsav from 25th April, 2022 to 30th April, 2022 (At KVK-Narsingpur/Sagar/Morena on 26th April, 2022). • National Conference on Agriculture-Kharif Campaign/CDDs Review Meeting (19-20, April, 2022). • Pre-sowing Brain storming session to promote Pigeon pea for Kharif, 2022 under the chairmanship of Secretary (A&FW) on (18th May, 2022). • Attended 23rd Meeting of Central Zonal Council at Bhopal under the chairmanship of the Hon'ble Minister for Home Affairs & Cooperation on (22nd August, 2022). • National Conference on Agriculture-Rabi Campaign/CDDs Review Meeting (07thSept. 2022). • Review meeting of Targeting Rice Fallow Area (TRFA) Programme implementing States on under the Chairmanship of Agriculture Commissioner, DA & FW on (05th Sept., 2022). • Review of state wise Rabi target vis-a-vis progress of Rabi sowing including rainfall situation and issues related to inputs on (29th Nov. 2022). • Meeting to discuss/present the action taken by States/UTs on the recommendations of Conference of Chief Secretaries held from 15th to 17th June, 2022 at Dharamshala under the chairmanship of Secretary (A & FW) on (02nd Dec.2022). • Meeting with CDDs regarding Monitoring of NFSM (OS) Scheme under the chairmanship of DC (Oilseeds) on (05th January, 2023). • 22nd Meeting of National Food Security Mission-Executive Committee (NFSM-EC) under the chairmanship of Secretary (A&FW) on (24th January, 2023). • Meeting (hybrid mode) to discuss the progress of Seed Hubs of Oilseeds, Pulses and Millets, Crop Diversification Programme and KVKs under the Co-Chairmanship of secretary (A&FW) and Secretary (DARE) & DG (ICAR) on (07th Feb.2023). • Meeting with all CDDs on crop situation under the chairmanship of Joint Secretary (Crops) on 07th March, 2023. • Global Event for International Year of Millets (IYM) 2023 at NASC Complex, IARI, Pusa, New Delhi on 18th March, 2023. |

3.2 Notes/Technical Reports

| Technical Report | Report Submitted |
|--|------------------|
| Submission of All India weekly crop weather prospects reports in respect of Kharif/Rabi/Spring/Summer Pulses & all crops of Kharif/Rabi/Spring/Summer of Assigned States of Madhya Pradesh & Chhattisgarh. | Regular/Weekly |
| All India Crop-wise Harvesting status of Kharif/Rabi/Spring/Summer Pulses. | Regular/Weekly |
| Submission of Input material for uploading over social media platform. | Regular/Weekly |
| Issuance of crop specific advisories of Kh/Rabi/Spring/Summer to assigned states. | Regular/Monthly |
| <ul style="list-style-type: none"> • National Conference on Agriculture-Strategy Note/Input on Kharif/Rabi/Spring/Summer Pulses. • Organization and participation in the 4th Poshan Pakhwada-2022-23. • Report on participation in the Kisan Mela conducted in KVKs (Narsinghpur/Morena/Sagar) on 26.04.2022 during Kisan Bhagidari, Prathmikta Hamari. • Inputs on preparation of CDDs Review meeting PPT/National Conference on Agriculture Kharif-2022. • Report of yield performance of Rapeseed-Mustard as per Crop Cutting Experiments undertaken in various scheme in assigned states. • Note on Rabi crop scenario-2022-23 and prospects of spring-summer-2023 of assigned states. • Note on higher/low area coverage of Arhar, Lentil, Gram, Urd, Mungl in the country. • Note on Pulses Scenario and Strategies-Kharif/Rabi /Spring-summer– 2022-23. • Note on districts having higher yield and lower yield over National Average Yield and State average Yield and normal APY of Arhar, Lentil and Gram. • Note on focused districts of Urd & Mung on the basis of higher yield and area. • Note on Area Coverage of Summer Mung and Estimated Production during Spring/Summer Mung-2022. • Brief reports/Inputs on Production estimates Scenario & crop diversions etc. on Kharif/Rabi Pulses. • Fixation of Pulses National Production Targets- 2022-23. • Progress Report of Seed Minikits of Pulses under National Food Security Mission (NFSM) for Kharif/Rabi/Summer-2022-23. • Compilation of All India (State-wise/District-wise) Allocation and Supply of Seed Minikit of Pulses (Kharif/Rabi/Summer-2022-23) in Aspirational & Backward districts. • Note of 23rd Meeting of Central Zonal Council at Bhopal under the chairmanship of the Hon'ble Home Minister & Cooperation Minister. • Report on NLMT-NFSM visit report of Chhattisgarh state visited during Kharif-2022. • Compiled success stories on NFSM-Pulses/other CSS programmes/schemes of assigned states. • Compilation of All India progress of District-wise/Crop-wise Seed minikit & varietal performance report (Seed minikit distributed between 2019-20 to 2021-22). • Submission of Success Story/ case study on the subject 'Promotion of Climate Resilient Farming. • Brief report on Oilseeds Seed Minikit Monitoring Report of 2021-22 in Madhya Pradesh and Chhattisgarh. • Inputs for preparation of speeches of HAM, MoSs and talking points for Secretary (A&FW). • Note on Arhar during Kharif, 2022: Status of Sowing, harvesting, production estimates and area affected due to Rains/Mandous Cyclonic Storms. | |

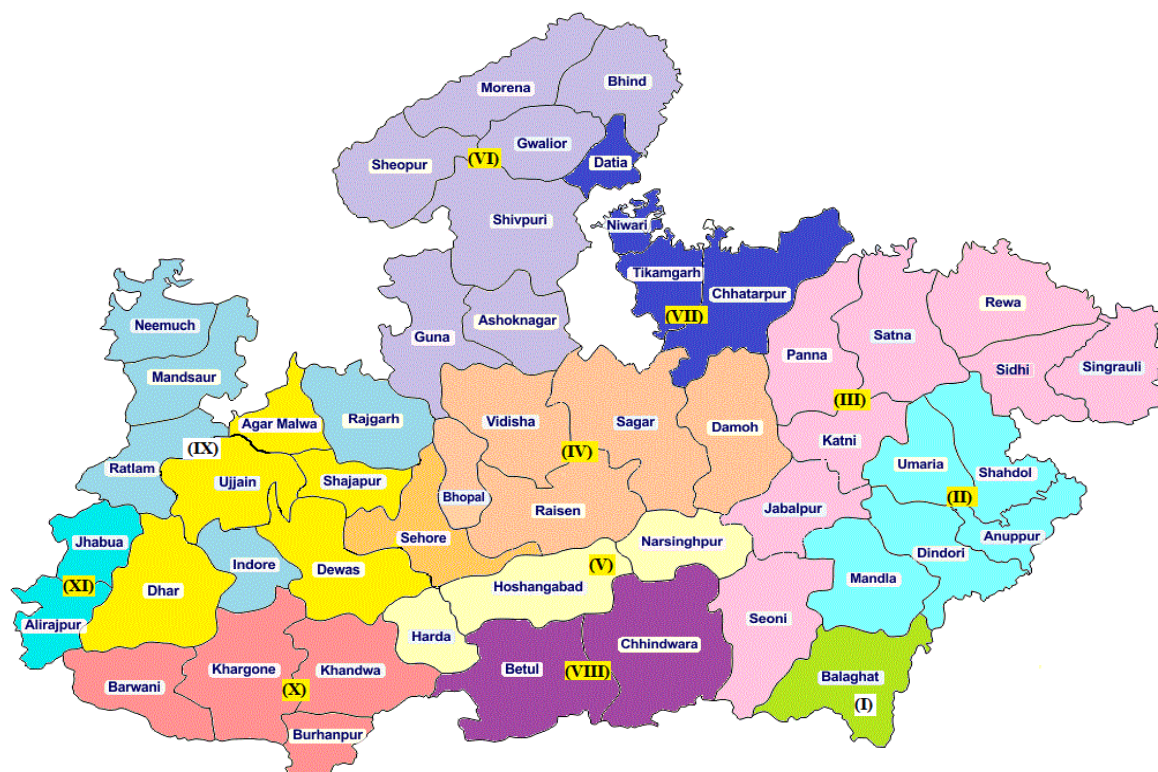
| Technical Report | Report Submitted |
|--|------------------|
| <ul style="list-style-type: none"> • Monitoring Report of Kharif-2022 & Rabi-2022-23 Oilseeds programme of Assigned States. • Note on Mung production and export status (TN Association of Import & Export). • Note/PPT on key reasons for fluctuations in the production of Tur and Urad. • Note for CDDs review meeting/ Global Event for International Year of Millets (IYM) 2023. • Information sought by PMO: Details of Events/Conferences/Exhibitions (For Last One Year). • Preliminary assessment report of crop damage due to rainfall/flood/drought/hailstorms etc. of Kharif/Rabi pulses/crops. • Issuance of advisory on impact of prevailing terminal heat stress on wheat crop in Assigned states. • Fixation of National Production Targets of Pulses for the year 2023-24. • Inputs/Comments on Annual Action Plan of NFSM Crops of Assigned State for the year 2023-24. | |

3.3 Other Administrative Activities

| S. No. | Activities | Date/Duration |
|--------|--|--|
| 1 | Observance of Anti Terrorism Day | 20.05.2022 |
| 2 | Celebration of International Yoga Day | 21.06.2022 |
| 3 | Observance of Sadbhavna Diwas | 19.08.2022 |
| 4 | Hindi Saptah | 06.09.2022 to 12.09.2022 |
| 5 | Hindi Diwas | 14.09.2022 |
| 6 | Hindi Mas | 01.09.2022 to 30.09.2022 |
| 7 | Hindi Pakhwada | 14.09.2022 to 28.09.2022 |
| 8 | Hindi Samanya Gyan Partiyogita | 29.09.2022 |
| 9 | Observance of Vigilance Awareness Week | 31.10.2022 to 06.11.2022 |
| 10 | Observance of Unity Day | 31.10.2022 |
| 11 | Constitution Day | 26.11.2022 |
| 12 | Hindi Workshop (Quarterly) | 17.06.2022, 21.09.2022, 23.12.2022, 24.03.2023 |
| 13 | Hindi Meeting (Quarterly) | 17.06.2022, 21.09.2022, 23.12.2022, 24.03.2023 |
| 14 | Observance of Swachata Pakhwada | 14.12.2022 to 31.12.2022 |

Unit – IV : State Profile –Assigned States

4.1 Madhya Pradesh State Profile



4.1.1 Agro-Climatic Zones of Madhya Pradesh

| | |
|------|---|
| I | Chhattisgarh Plains (1) – Balaghat |
| II | Northern Hills of Chhattisgarh (05) – Mandla, Dindori, Shahdol, Umaria, Anuppur |
| III | Kymore Plateau & Satpura Hills (08)–Jabalpur, Seoni, Katni, Panna, Satna, Rewa, Sidhi, Singrauli |
| IV | Vindhyan Plateau (06) – Bhopal, Sehore, Raisen, Sagar, Damoh, Vidisha |
| V | Central Narmada Valley (03) – Narsinghpur, Hoshangabad, Harda |
| VI | Grid Zone (07) – Gwalior, Guna, Ashoknagar, Shivpuri, Sheopur, Morena, Bhind |
| VII | Bundelkhand Zone (04) – Datia, Niwari, Tikamgarh, Chhatarpur |
| VIII | Satpura Plateau (02) – Chhindwara, Betul |
| IX | Malwa Plateau (10)–Indore, Ujjain, Dhar, Dewas, Shajapur, Agar-Malwa, Neemuch, Mandsaur, Ratlam, Rajgarh, |
| X | Nimar Valley (04) – Khandwa, Kargone, Barwani, Burhanpur |
| XI | Jhabua Hills (02) – Jhabua, Alirajpur |

4.1.2 STATE PROFILE IN MADHYA PRADESH

| Particulars | | Status | | |
|--|-----------------|--|--|---------------|
| Population | (Crore) | 7.27 (Male- 3.77, Female-3.51) | | |
| Population Growth | (%) | 20.35 – 2011 | | |
| Revenue Districts /Tehsil | (Nos.) | 55/428 | | |
| Block/Janpad Panchayat | (Nos.) | 333 (89 Tribal Blocks) | | |
| Village Panchayat/Tot. Village | (Nos.) | 23006/54903 as per 2011 censure | | |
| Krishi Upaj Mandi | (Nos.) | 500-600 | | |
| Average Annual Rainfall | (mm) | 1160 mm | | |
| Land Use Pattern (Area : lakh ha) | | Agricultural land use (Area : lakh ha) | | |
| Geographical Area | 307.56 | Net sown area | 157.99 | |
| Cultivable area | 158.72 (52%) | Double Cropped Area | 83.62 | |
| Forest area | 87.08 (28%) | Gross cropped area | 238.17 | |
| Land under non-agricultural use | 19.92 (6%) | Kharif Area | 152.52 | |
| Permanent pastures | 13.48 (4%) | Rabi Area | 85.65 | |
| Cultivable wasteland | 8.67 (3%) | Cropping Intensity | 152% | |
| Barren and uncultivable land | 14.06 (5%) | | | |
| Current fallows | 7.69 (3%) | | | |
| Particulars | | Status | | |
| Operational Land Holding (Area : Lakh ha, Number-Lakh) | | | | |
| Average Size of Social Groups | | Average Size (ha) | Numbers (%) | Area (%) |
| Marginal | (< 1 ha) | 0.49 | 38.91 (44%) | 19.15 (12%) |
| Small | (1 to 02 ha) | 1.42 | 24.49 (28%) | 34.66 (22%) |
| Semi Medium | (02 to 04 ha) | 2.73 | 16.55 (19%) | 45.10 (28%) |
| Medium | (04 to 10 ha) | 5.76 | 7.89 (9%) | 45.45 (29%) |
| Large | (10 ha & Above) | 15.73 | 0.89 (1%) | 14.00 (9%) |
| Total | | 1.78 | 88.73 | 158.36 |
| Irrigation (lakh ha) | | | Sources of Irrigation (Area : lakh ha) | |
| Net irrigated area | | 128.82 | Canals | 10.91 (16%) |
| Gross irrigated area | | 162.83 | Tanks | 1.49 (2%) |
| Rainfed area | | 60% | Open wells | 24.03 (35%) |
| | | | Bore wells/Tube Wells | 17.93 (26%) |
| | | | Other Sources | 14.25 (21%) |
| | | | Total Irrigated Area | 68.61 |
| Major Soils (Area - lakh ha) | | | | |
| 1. Alluvial Soil | | 33.5 (11%) | 2. Deep Medium black soils | |
| 3. Shallow & Medium Black Soil | | 30.6 (10%) | 4. Mixed Red & Black Soil | |
| | | | 162.1 (53%) | |
| | | | 81.1 (26%) | |

Source- ENVIS, Centre of M.P. State. TKA-Total Kharif Area; TRA - Total Rabi Area; TPI*- Total Production in India

4.1.3 Crop Scenario (Normal – Season-wise)

| Madhya Pradesh | | Area in 000 ha, Production in 000 Tonnes & Yield in Kg/ha | | | | |
|------------------------|---------------|---|---------------|-------------|---------------------|------------|
| Crop Scenario | | (2017-18 to 2021-2022) | | | Season-wise % Share | |
| Crop | Season | Area | Production | Yield | Area | Production |
| Cereals | | | | | | |
| Rice | Kharif | 21.13 | 44.66 | 2113 | 53 | 47 |
| | Rabi | 0.20 | 0.59 | 2922 | 0.3 | 0.3 |
| | Total | 21.34 | 45.25 | 2121 | 21 | 15 |
| Wheat | Rabi | 59.94 | 186.40 | 3110 | 98 | 99 |
| Jowar | Kharif | 1.38 | 2.70 | 1966 | 3 | 3 |
| Bajra | Kharif | 3.21 | 7.29 | 2275 | 8 | 8 |
| Maize | Kharif | 13.48 | 39.76 | 2950 | 34 | 42 |
| | Rabi | 0.18 | 0.69 | 3854 | 0.3 | 0.4 |
| | Total | 13.66 | 40.46 | 2962 | 13 | 14 |
| Small millet | kharif | 0.98 | 0.85 | 867 | 2 | 1 |
| Barley | Rabi | 0.57 | 1.21 | 2135 | 1 | 1 |
| Total Cereals | kharif | 40.17 | 95.27 | 2372 | 64 | 88 |
| | Rabi | 60.89 | 188.89 | 3102 | 62 | 80 |
| | Total | 101.06 | 284.16 | 2812 | 63 | 1 |
| Pulses | | | | | | |
| Tur | Kharif | 3.11 | 3.54 | 1139 | 14 | 29 |
| Gram | Rabi | 25.43 | 34.93 | 1374 | 70 | 75 |
| Urd | Kharif | 17.59 | 8.14 | 463 | 81 | 67 |
| | Rabi | 0.47 | 0.61 | 1313 | 1 | 1 |
| | Total | 18.06 | 8.75 | 484 | 31 | 14 |
| Moong | Kharif | 1.05 | 0.49 | 466 | 5 | 4 |
| | Rabi | 4.03 | 4.65 | 1153 | 11 | 10 |
| | Total | 5.08 | 5.14 | 1011 | 8 | 8 |
| Lentil | Rabi | 4.86 | 4.72 | 971 | 13 | 10 |
| Other Pulses | Kharif | 0.04 | 0.02 | 407 | 0.2 | 0.1 |
| | Rabi | 1.52 | 1.41 | 929 | 4 | 3 |
| | Total | 1.56 | 1.43 | 915 | 2 | 2 |
| Total Pulses | Kharif | 21.79 | 12.18 | 559 | 35 | 11 |
| | Rabi | 36.31 | 46.33 | 1276 | 37 | 19 |
| | Total | 58.10 | 58.51 | 1007 | 36 | 17 |
| Oilseeds | | | | | | |
| Groundnut | Kharif | 2.65 | 4.53 | 1708 | 4 | 8 |
| Sesamum | Kharif | 3.40 | 1.54 | 452 | 5 | 3 |
| Niger seed | Rabi | 0.22 | 0.07 | 334 | 2 | 1 |
| Soyabean | Kharif | 57.62 | 53.07 | 921 | 90 | 90 |
| Rapeseed and Mustard | Rabi | 8.21 | 12.10 | 1474 | 91 | 96 |
| Linseed | Rabi | 0.72 | 0.47 | 658 | 8 | 4 |
| Total Oilseed | Kharif | 63.94 | 59.23 | 926 | 87 | 83 |
| | Rabi | 8.98 | 12.66 | 1410 | 12 | 17 |
| | Total | 72.92 | 71.18 | 986 | | |
| Commercial Crop | | | | | | |
| Sugarcane | Kharif | 1.04 | 57.93 | 55810 | 14 | 77 |
| Cotton | Kharif | 6.03 | 16.71 | 2771 | 85 | 22 |
| Foodgrains | Kharif | 61.96 | 107.45 | 1734 | 38 | 31 |
| | Rabi | 97.20 | 235.22 | 2420 | 61 | 68 |
| | Total | 159.16 | 342.67 | 2153 | | |

Source: – DES, GOI

4.1.4 Central Sponsored Scheme/Central Sector Scheme

| S.No. | Central Sponsored Scheme/Central Sector Scheme -12 |
|-------|--|
| 1. | Food & Nutrition Security (Erstwhile- NFSM) Programmes Pulses ; Rice; Wheat;Coarse Cereals; Nutri-Cereals; TRFA-Pulses Cotton; Sugarcane |
| 2. | NMEO- Oilseeds |
| 3. | RKVY- Rashtriya Krishi Vikas Yojna |
| 4. | PKVY-Paramparagat Krishi Vikas Yojna |
| 5. | NMAET- Sub-mission of Seed and Planting Material (SMSP) |
| 6. | NMAET- Sub-mission of Agriculture Extension (SMAE) |
| 7. | NMAET-SMFWM - Sub-mission on Farm Water Management |
| 8. | Pradhan Mantri Krishi Sinchai Yojna (PMKSY) |
| 9. | SASA – State Agricultural Statistical Authority. |
| 10. | Prime Minister Crop Insurance Scheme (PMFBY) |
| 11. | Soil Health Card Scheme (Central) |
| 12. | National e-Governance Plan (NeGPA) |

4.1.5 Seed Hub & EBSP Centres of Pulses, Oilseeds, Millets in Madhya Pradesh

| ALL INDIA (No of centre) | 150 | 35 | 25 | 12 | 18 |
|--|------------------------------------|---|------------------------------------|-----------------------------|--|
| Madhya Pradesh | Seed hub (Pulses)- 16 | Seed hub (Oilseeds)-6 (5+1) | Seed hub (Millets)-2 | EBSP (Pulses)-3 | EBSP (Millets)-1 |
| | AICRP (Pulses), RVSKVV,Gwalior | CoA-Khandwa | College of Agriculture, Rewa | JNKVV, Jabalpur | College of Agriculture, Rewa, JNKVV, Jabalpur |
| | AICRP (Pulses), RAK CoA, Sehore | ZARS-Morena JNKVV- Jabalpur | AICRP, Dindori | RVSKVV,Gwali or | |
| | AICRP, Indore | RARS-Sagar | | ICAR-IIPR- Phanda Bhopal | |
| | AICRP, Khargone | JNKVV-Jabalpur (ZARS, Chhindwara) | | | |
| | KVK, Ujjain | ICAR-IISR Indore | | | |
| | KVK, Dewas | KVK Bankhedi (NGOs) | | | |
| | KVK, Datia | | | | |
| | KVK, Morena | | | | |
| | AICRP (Pulses), JNKVV, Jabalpur | | | | |
| | AICRP (Pulses), ARS, Sagar | | | | |
| | KVK, Betul | | | | |
| | KVK, Narsinghpur | | | | |
| | KVK, Damoh | | | | |
| KVK, Harda | | | | | |
| KVK, Tikamgarh | | | | | |
| ICAR-IIPR Regional Station, Phanda, Bhopal | | | | | |

4.1.6 States Varieties of Major & Potential Crops (Within 10 Years 2012 to 2023)

| Crops | Release/ Notified Year | Varieties |
|----------------|------------------------------|--|
| Cereals | | |
| Paddy | 2016 | JR 767, Swarna Shreya |
| | 2018 | DRR Dhan 50 (IET 25671), Improved Chinnor, Improved Jeera Shankar, JR-81, JRB-1 (IET 23422) |
| | 2019 | JR 206 (IET 26079) |
| Wheat | 2016 | MPO 1255 (MPO (JW)1255), Pusa Malwi (HD 4728) |
| | 2017 | HI 1605 (Pusa Ujala), HI 8759 (PUSA TEJAS), Pusa Wheat HI 8759 (TEJAS), Pusa Tejas (HI 8759) |
| Sorghum | 2016 | Raj Vijay Jowar -1862 |
| Maize | 2017 | GK 3150, Shalimar Pop Corn-1 (KDPC-2) |
| | 2018 | LG 34.05 (BL 900) |
| | 2019 | Jawahar Maize 218 |
| Little millet | 2016 | Jawahar Kutki 4 (JK 4) |
| Pulses | | |
| Chickpea | 2013 | Raj Vijay Gram 203 (RVG 203) JSC 56 |
| | 2014 | JG 12 |
| | 2015 | RVG 202 (JSC 55) |
| | 2016 | JG 36 (Jawahar Gram 36), JGK 5 |
| | 2018 | Phule Vikrant (Phule G 0405) |
| | 2019 | IPC 2006-77, Raj Vijay Gram 205 (RVG 205) (RVSSG 32), Raj Vijay Kabuli Gram 111 (RVG 111) (RVSSG 24), Raj Vijay Kabuli Gram 151 (RVG 151) (RVSSG 37), Raj Vijay Gram 204 (RVG 204) (RVSSG 8102) |
| | 2020 | Pusa Chickpea 10216 (BGM 10216), Pusa Parvati (BG3062), Phule Vikram, Jawahar Gram 24 (JG 24) (JG 2016-24) |
| | 2021 | RG 2015-08 (CG Lochan Chana), Raj Vijay Gram 204 (RVG 204) (RVSSG 8102), Pusa Chickpea 20211 (Pusa Chickpea Manav), PDKV Kanak (AKG-1303), Samriddhi (IPCMB19-3), Kota Kabuli Channa-3 (RKGK 13-414), Raj Vijay Gram 210 (RVG 210), Raj Vijay Kabuli Gram 121 (RVKG 121) |
| | 2023 | ADVIKA (NC 7) |
| Pigeon pea/Tur | 2013 | PKV, Tara (TAT-9629), ICPH 2671 |
| | 2020 | Bheema GRG-152 |
| | 2023 | PDKV Ashlesha (AKTM 1637), Phule Trupti (Phule Tur-10-1), Renuka (BDN 2013-2) |
| Green gram | 2016 | IPM 410-3 (Shikha), IPM 205-7 (Virat) |
| Urd | 2019 | PDU 1 (Basant Bahar), IPU 11-02 |
| | 2020 | IPU 13-1, IPU 10-26 |
| | 2021 | IPU 17-1 |
| | 2023 | Dristi (IPU 17-2), TJU 339 (Trombay Jawahar Urd 339), TJU 130 (Trombay Jawahar Urd 130) |
| Lentil | 2013 | IPL 316 |
| | 2014 | Raj Vijay Lentil 31 (JL 31) |

| Crops | Release/ Notified Year | Varieties |
|-----------------|------------------------------|--|
| | 2017 | RVL 11-6, L 4717 (Pusa Ageti Masur) |
| | 2018 | Kota Masoor 2 (RKL 14-20), L 4727, Kota Masoor-1(RKL 607-1) |
| | 2019 | RVL 13-7 (Raj Vijay Lentil 13-7), RVL 13-5 (Raj Vijay Lentil 13-5) |
| | 2020 | L 4729, Kota Masoor 3 (RKL 605-03), IPL 53 |
| | 2021 | RKL 58 F 3715 (Kota Masoor 4) |
| Pea | 2014 | IPFD 10-12 |
| | 2016 | IPFD 11-5 |
| | 2017 | IPFD 12-2 |
| | 2018 | Pant Pea 243, IPFD 2014-2 |
| Oilseeds | | |
| Soybean | 2015 | NRC 86 (Ahilya 6) |
| | 2017 | Pant Soybean 23(PS 1523), PRAGYA (RVS-18), Raj Soya -18 (Pragya), RAJ Soya 24 (RVS 2002-04) |
| | 2021 | IS 138 (NRC 138) |
| Linseed | 2016 | JLS-79 |
| | 2018 | Jawahar Linseed Sagar-95 (JLS-95) (SLS-95), JLS-66 (SLS 66), Utera Alsi (RLC-143) , Utera Alsi (RLC-143) |
| Niger | 2016 | JNS-30 |
| | 2017 | GNNIG-3, Jawahar Niger Selection 28 (JNS 28) |
| Sunflower | 2014 | JS 20-34 |

4.1.7 NFSM Districts in M.P

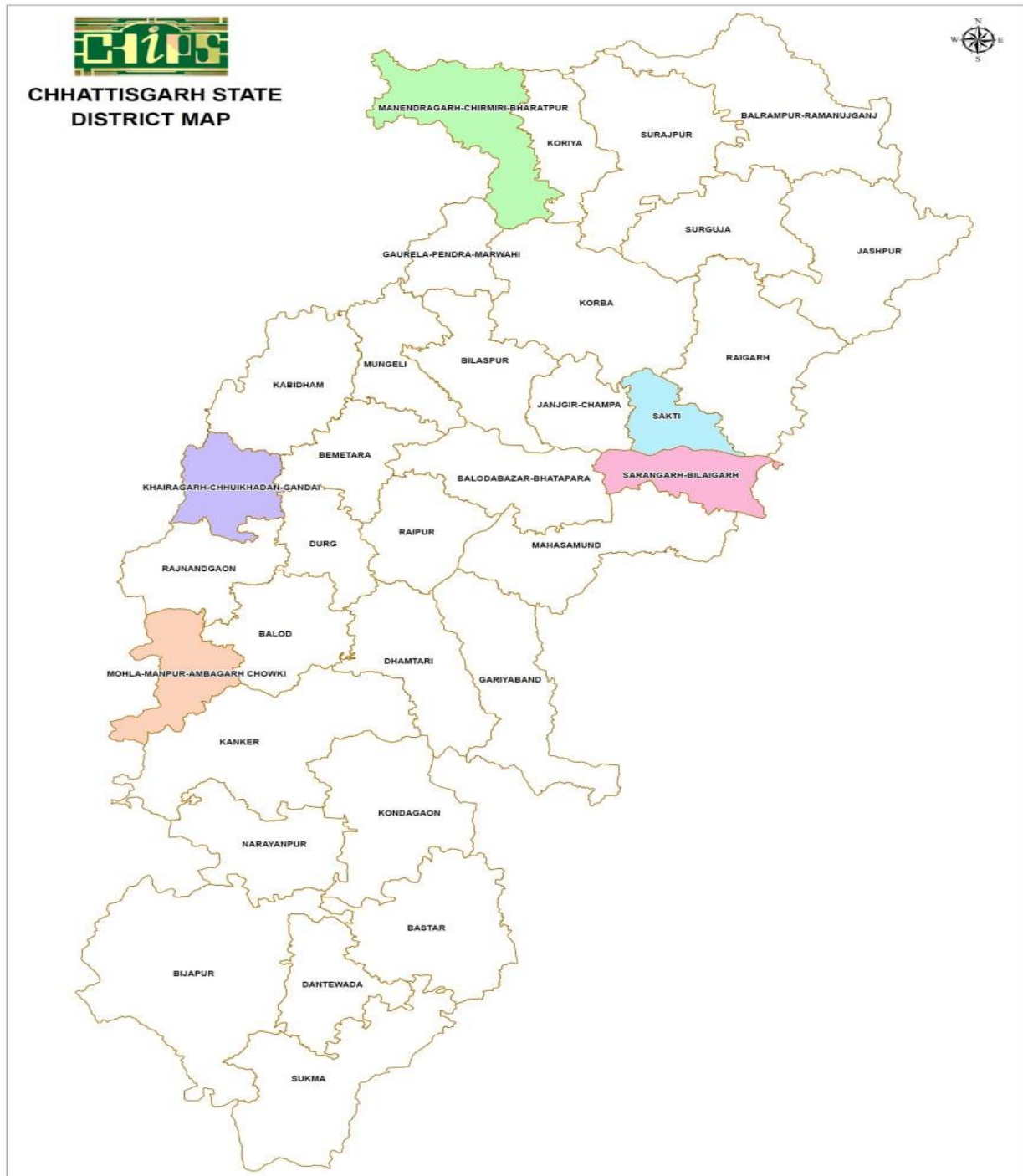
| S.No. | Commodities | Madhya Pradesh Districts (Nos.) |
|-------|----------------------------------|--|
| i. | NFSM-Wheat (16) | Ashok nagar, Chhatarpur, Guna, Katni, Khandwa, Panna, Raisen, Rajgarh, Rewa, Sagar, Satna, Seoni, Shivpuri, Sidhi, Tikamgarh, Vidisha |
| ii. | NFSM-Pulse (52) | All the districts |
| iii. | NFSM-Rice (8) | Anupur, Damoh, Dindori, Katni, Mandla, Panna, Rewa, Sidhi |
| iv. | NFSM- Coarse cereals (22) | |
| | Maize (15) | Chhindwara, Jhabau, Dhar, Betul, Rajgarh, Khargone, Ratlam, Alirajpur, Seoni, Mandasaur, Burhanpur, Neemuch, Barwani, Singrauli, Dindori |
| | Barley (8) | Singrauli, Chhatarpur, Tikamgarh, Satna, Rewa, Bhind, Siddhi, Panna |
| v | NFSM-Nutri-cereal (24) | |
| | Jowar (9) | Alirajpur, Barwani, Betul, Burhanpur, Chhindwara, Dhar, Khargone, Rewa, Sidhi |
| | Bajra (4) | Bhind, Morena, Sheopurkalan, Shivpuri |
| | Other millets (15) | Anuppur, Balaghat, Betul, Chhindwara, Damoh, Dindori, Jabalpur, Katni, Mandla, Rewa, Shadol, Seoni, Sidhi, Singrauli, Umaria |

| S.No. | Commodities | Madhya Pradesh Districts (Nos.) |
|-------|------------------------------|---|
| vi. | NFSM-Commercial Crops | |
| | Cotton (10) | Chhindwara, Dhar, Jabaua, alirajpur, Khargone, Barwani, Khandwa, Burhanpur, Ratlam, Dewas |
| | Sugarcane (13) | Chhindwara, Mandla, narshinghpur, Dhar, Barwani, Burhanpur, Gwalior, Shivpuri, Datia, Hosangabad, Betul, Jabalpur, Guna |
| vii | NFSM-Oilseeds (52) | All the districts |

4.1.8 National Mission on Edible Oils (NMEO) - Oilseeds Districts (52)

| Division | Districts | Division | Districts |
|-----------------|--|----------------------------------|---|
| Bhopal | Bhopal, Sehore, Raisen , Rajgarh, Vidisha. | Ujjain | Dewas, Ratlam, Shajapur, Mandsour Nimach, Ujjain, Agar-Malwa. |
| Jabalpur | Jabalpur, Katani, Narsinghpur, Chhindwara , Seoni, Mandala, Balaghat, Dindori. | Shahdol | Shahdol, Umariya, Anuppur. |
| Indore | Indore, Dhar, Jhabua, Alirajpur , Khargone, Barwani, Khandawa, Burhanpur, | Chambal | Shivpur, Morena , Bhind. |
| Gwalior | Gwalior, Shivpuri, Guna, Ashoknagar, Datia. | Reewa | Reewa, Singrauli, Sidhi, Satana. |
| Sagar | Sagar, Damoh , Panna, Chhattarpur, Tikamgarh, Niwari. | Narmadapuram/ Hoshangabad | Hoshangabad, Hard, Betul. |

4.2 Chhattisgarh State Profile



4.2.1 Agro-Climatic Zones of Chhattisgarh

4.2.2 Agro Climatic Zone- wise District in Chhattisgarh*(Area: - Lakh ha)*

| Agro Climatic Zone | Districts Included | Total Geog. Area | Net sown area (%) | Soil Type (%) | Irrigation (%) | Cropping Intensity (%) | Rainfall (mm) |
|------------------------------|--|------------------|-------------------|---|----------------|------------------------|---------------|
| C.G. Plains (18 Districts) | Raipur, Balodabajar, Bhathpara, Gariyaband, Bilaspur, Gorela, Pendra Marwahi, Mungeli, JanjgirChampa, Sakti, Kabirdham, Rajnandgaon, Khairagarh, Manpur Mohala Chowki, Durg, Balod, Bemetara, Dhamtari and Mahasamund are districts included in this plain Zone. | 68.49 (50%) | 32.95 | Entisol -36, Alfisol - 21, Inceptisol-22, Vertisol -8, Alluvial -3 | 43 | 139 | 1245 |
| Bastar Plateau (7 Districts) | Kanker (North Bastar), Bastar, Kondagaon, Dantewada (South Bastar), Bijapur, Sukma and Narayanpur are districts included in this Zone. | 39.06 (29%) | 6.40 | Entisol - 26, Alfisol - 25, Inceptisol-34, Vertisol -10, Alluvial - 5 | 5 | 122 | 1468 |
| Northern Hills (9 Districts) | Koriya, Manendragarh – Bharatpur, Sarguja, Surajpur, Balrampur- Ramchandrapur, Jashpur Nagar, Raigarh, Sarangadh and Korba are districts situated in this Zone. | 28.47 (21%) | 8.35 | Entisol - 3, Alfisol - 29, Inceptisol-28, Vertisol - 28, Alluvial-2 | 11 | 135 | 1510 |

* *Entisol (Bhata), Alfisol (Matasi), Inceptisol (Dorsa), Vertisol (Kanhar) & Alluvial (Kachhar)*

4.2.3 Land Use Classification & Basic Details of CG State (2021-22)

| Particulars | | Chhattisgarh | |
|---|--|--|-----------------------------|
| Population (Crore) | | 2.56 (Rural – 1.96, Urban -0.60) | |
| Density of Population | | 189 per sq km | |
| Population Growth (%) | | 22.61- 2011 | |
| Male & Female | | 1.28 Crore (50.24 %) & 1.27 Crore (49.76 %) | |
| Literacy (Male & Female) | | 70.28% | |
| Revenue Divisions & Districts (Nos.) | | 5 & 33 | |
| Block/ Janpad Panchayat (Nos.) | | 146 | |
| Village Panchayat (Nos.) | | 11664 | |
| Tehsil (Nos.) | | 177 | |
| Total Village (Nos.) | | 20619 | |
| Krishi Upaj Mandi (Nos.) | | 73 | |
| Annual Rainfall (Ave.) | | 1255 mm | |
| Land Use Pattern (Area : lakh ha) | | Agricultural land use (Area -lakh ha) | |
| Geographical Area | | 140.45 | Net sown area |
| Cultivable area | | 57.12 (41%) | Double Cropped Area |
| Forest area | | 65.69 (47%) | Gross cropped area |
| Land under non-agricultural use | | 7.51 (5%) | Kharif Area |
| Permanent pastures | | 8.95 (6%) | Rabi Area |
| Cultivable wasteland | | 3.61 (3%) | Cropping Intensity |
| Barren and uncultivable land | | 2.88 (2%) | |
| Current fallows | | 3.01 (2%) | |
| Operational Land Holding (Area: lakh ha, Number- lakh) | | | |
| Average Size of Social Groups | | Average Size (ha) | Numbers (%) |
| Marginal (< 1 ha) | | 0.43 | 24.34 (61%) |
| Small (1 to 02 ha) | | 1.41 | 8.79 (22%) |
| Semi Medium (02 to 04 ha) | | 2.67 | 4.93 (12%) |
| Medium (04 to 10 ha) | | 5.67 | 1.81 (5%) |
| Large (10 ha & Above) | | 16.10 | 0.23 (1%) |
| Total | | 1.24 | 40.11 |
| Irrigation (lakh ha) | | Sources of Irrigation (A : lakh ha) | |
| Net irrigated area | | 15.99 | Canals |
| Gross irrigated area | | 21.41 | Tanks |
| Rainfed area | | 39% | Open wells |
| | | | Bore /Tube-Wells |
| | | | Other Sources |
| | | | Total Irrigated Area |
| | | | 21.41 |
| Major Soils (Area - lakh ha) | | | |
| Alluvial Soil (Kacchar) | | 1.38 (2.7%) | Inceptisols (Matasi) |
| Entisols (Bhata) | | 10.02 (20%) | Vertisols (Kanhar) |
| Alfisols (Dorsa) | | 13.82 (27 %) | Land Classif. Total |
| | | | 50.19 |
| Major crops | | | |
| Kharif | Paddy, Pigeonpea, Soybean, Maize, Mung, Urd, Kulthi | | |
| Rabi | Wheat, Gram, Mustard, Safflower, Lathyrus, Field Pea, Lentil, Linseed, Groundnut | | |

Source: <http://censusindia.gov.in/2011census/census>, ENVIS, Centre of CG

4.2.4 Crop Scenario (Normal – Season-wise)

(Area in 000 ha, Production in 000 Tonnes & Yield in kg/ha)

| Crop Scenario | | (2017-18 to 2021-2022) | | | Season-wise % Share | |
|---------------|--------|------------------------|------------|-------|---------------------|------------|
| Crop | Season | Area | Production | Yield | Area | Production |
| Rice | Kharif | 37.17 | 66.83 | 1798 | 95 | 95 |
| Wheat | Rabi | 1.27 | 1.70 | 1342 | 99 | 99 |
| Maize | Kharif | 1.25 | 3.39 | 2713 | 3 | 5 |
| Small millet | Kharif | 0.75 | 0.23 | 311 | 2 | 0.3 |
| Ragi | Kharif | 0.05 | 0.01 | 257 | 0.1 | 0.02 |
| Jowar | Kharif | 0.03 | 0.03 | 1255 | 0.1 | 0.05 |
| Barley | Rabi | 0.02 | 0.01 | 804 | 1 | 1 |
| Total Cereal | Kharif | 39.25 | 70.50 | 1796 | 96 | 99 |
| | Rabi | 1.28 | 1.71 | 1335 | 19 | 32 |
| | Total | 40.53 | 72.21 | 1782 | 85 | 94 |
| Tur | Kharif | 0.53 | 0.30 | 571 | 30 | 41 |
| Gram | Rabi | 3.31 | 2.49 | 754 | 61 | 70 |
| Urd | Kharif | 0.79 | 0.27 | 343 | 46 | 37 |
| Lentil | Rabi | 0.14 | 0.05 | 369 | 2 | 1 |
| Moong | Kharif | 0.06 | 0.03 | 458 | 4 | 4 |
| | Rabi | 0.05 | 0.01 | 305 | 1 | 0.4 |
| Other Pulses | Kharif | 0.35 | 0.14 | 393 | 20 | 19 |
| | Rabi | 1.92 | 1.01 | 527 | 35 | 28 |
| | Total | 2.27 | 1.15 | 506 | 32 | 27 |
| Total Pulses | Kharif | 1.74 | 0.74 | 427 | 4 | 1 |
| | Rabi | 5.45 | 3.58 | 658 | 81 | 68 |
| | Total | 7.19 | 4.33 | 602 | 15 | 6 |
| Food grains | Kharif | 40.99 | 71.24 | 1738 | 86 | 93 |
| | Rabi | 6.73 | 5.29 | 787 | 14 | 7 |
| | Total | 47.72 | 76.54 | 1604 | | |
| Soyabean | Kharif | 0.76 | 0.55 | 719 | 46 | 51 |
| Niger seed | Rabi | 0.46 | 0.09 | 196 | 82 | 40 |
| R&M | Rabi | 0.40 | 0.18 | 453 | 70 | 79 |
| Groundnut | Kharif | 0.24 | 0.37 | 1535 | 15 | 34 |
| Sesamum | Rabi | 0.18 | 0.07 | 398 | 32 | 31 |
| Linseed | Rabi | 0.17 | 0.05 | 287 | 29 | 21 |
| Oilseed | Kharif | 1.64 | 1.08 | 658 | 74 | 82 |
| | Rabi | 0.56 | 0.23 | 404 | 25 | 17 |
| | Total | 2.21 | 1.31 | 593 | | |
| Sugarcane | | 0.32 | 16.17 | 50997 | 89 | 99 |

Source: – DES, GOI

4.2.5 Central Sponsored Scheme/Central Sector Scheme

| S.NO | CENTRAL SPONSORED SCHEME/ CENTRAL SECTOR SCHEME |
|------|--|
| 1. | Food & Nutrition Security (Erstwhile- NFSM) Programmes Pulses; Rice; Coarse Cereals; Nutri-Cereals; TRFA-Pulses & TRFA-Oilseeds |
| 2. | NMEO – Oilseeds & NMEO – Oilpalm Tree Bone Oilseeds (TBOs - Olive & Mahua) |
| 3. | RKVY - Rashtriya Krishi Vikas Yojna (RPS & RAFTAAR) |
| 4. | NMSA -RAD (Rainfed Area Develop). |
| 5. | PKVY -Paramparagat Krishi Vikas Yojna. |
| 6. | SHC -Soil Health Card. |
| 7. | NMAET - SMSP-Sub-mission of Seed and Planting Material |
| 8. | NMAET - SMFWM -Sub-mission on Farm Water Management |
| 9. | PMKSY - Pradhan Mantri Krishi Sinchai Yojna. |
| 10. | IWSM - Integrated Watershed Management. |
| 11. | NeGPA - National E Governance Plan of Agri. |
| 12. | NMOP - National Mission on Oilseeds and Oil Palm |

4.2.6 State- Sponsored Scheme

| S.No. | State- Sponsored Scheme |
|-------|--|
| 1. | Fasal Exhibition Plan |
| 2. | Kisan Samridhi Yojana |
| 3. | Krishak Samagra Vikas Yojana |
| 4. | Upgrading vigilance of agricultural workers |
| 5. | Minimum Irrigation Scheme |
| 6. | Shakambari Scheme |
| 7. | Establishment of Agricultural Machinery Service Centre |
| 8. | Organic Farming Mission |
| 9. | Rajiv Gandhi Kisan Nyaya Yojana |

Source: SDA Agriculture

4.2.7 Seed Hub & EBSP Centres of Pulses, Oilseeds, Millets in Chhattisgarh

| S.NO. | No. of Centre (Pulses)- 7 | No. of Centre (Oilseeds)-1 | No. of Centre (Millets)-1 | No. of Centre EBSP (Millets)-1 |
|-------|------------------------------|----------------------------|---|---|
| 1. | AICRP (Pulses), IGKV, Raipur | KVK Bemetra (Soybean) | AICRP Small millets ZARS, IGKV, Jagadapur | AICRP Small millets ZARS, IGKV, Jagadapur |
| 2. | KVK, Bhatapara, Raipur | | | |
| 3. | KVK, Ambikapur, Surguja | | | |
| 4. | KVK, Ranandgaon | | | |
| 5. | KVK, Kawardha, | | | |
| 6. | KVK, Kanker | | | |
| 7. | KVK, Janjgir Champa | | | |

4.2.8 Assigned States Varieties of Major & Potential Crops (Within 10 Years 2012 to 2023)

| Crops | Release/ Notified Year | Varieties |
|-----------------------|---------------------------|---|
| Paddy | 2016 | Bhadshabhog Selection-1, Bidhan Rice bean-3 (KRB-19), Chhattisgarh Madhuraj Dhaan-55, Dubraj Selection -1, Kunaram Sannalu (KNM 118) (IET No.23748) , Tarunbhog Selection-1, Vishnubhog Selection-1 |
| | 2017 | 28P09, BS129G (Arize 6129 Gold), Chhattisgarh Zink Rice-1 |
| | 2018 | Bio-799, Chhattisgarh Ragi-2 |
| | 2019 | Chhattisgarh Devbhog , PAC-801, Zinco Rice MS |
| | 2020 | PAC 8744 (ADV 1603- IET 25785) |
| Wheat | 2018 | Pusa Wheat -8777 (HI 8777) |
| | 2021 | Hansa Wheat (CG 1023), Kanishka (CG 1029) |
| Maize | 2015 | LAXMI 3636 (LTH-22) |
| | 2018 | ADV-756 (ADV 0990296), CP.999 |
| Ragi | 2018 | Chhattisgarh Ragi-2 (BR36), Chhattisgarh Ragi-3 |
| Kutki | 2016 | Chhattisgarh Kutki-2 |
| Pulses | | |
| Chickpea | 2015 | RVG 202 (JSC 55) |
| | 2019 | IPC 2006-77 |
| | 2020 | Jawahar Gram 24(JG 24) (JG 2016-24), CG Channa-2 |
| | 2021 | RG 2015-08 (CG Lochan Chana), Raj Vijay Gram 204 (RVG 204) (RVSSG 8102) |
| | 2023 | Pusa JG 16 (BGM 10221 DTIL) |
| Pigeon pea/Tur | 2013 | Tara (TAT-9629) |
| | 2020 | Bheema GRG-152, Chhattisgarh Arhar-1 (RPS 2007-10) |
| | 2023 | PDKV Ashlesha (AKTM 1637), Phule Trupti (Phule Tur-10-1) |
| Green gram | 2016 | IPM 205-7 (Virat) |
| Urd | 2015 | Indira Urd Pratham(RU 03-14) |
| | 2019 | PDU 1 (Basant Bahar) |
| Lentil | 2013 | IPL 316 |
| | 2017 | RVL 11-6, L 4717 (Pusa Ageti Masur) |
| Lentil | 2018 | Kota Masoor 2 (RKL 14-20), L 4727, Kota Masoor-1 (RKL 607-1) |
| | 2019 | RVL 13-7 (Raj Vijay Lentil 13-7) RVL 13-5 (Raj Vijay Lentil 13-5) |
| | 2020 | L 4729 Kota Masoor 3 (RKL 605-03), CG Masoor-1 (RL-3-5) |
| | 2021 | RKL 58 F 3715 (Kota Masoor 4) |
| Pea | 2014 | IPFD 10-12 |
| | 2016 | Indira Matar 1 (RFP 2009-1) |
| | 2017 | IPFD 12-2 |
| | 2018 | Pant Pea 243, IPFD 2014-2 |
| Oilseeds | | |
| Soybean | 2017 | RVS 2002-4, Chhattisgarh Soya-1 (CG SOYA-1) |
| Linseed | 2016 | Chhattisgarh Alsi-1 (RLC-133) |
| | 2018 | Varsha Alsi (RLC-148) |
| R&M | 2016 | Raj Vijay Mustard 1 |
| Sunflower | 2017 | Kaveri Champ |
| | 2018 | DSH-185 |

Source: www.seednet.gov.in, AICRP, ICAR, IIPR, Kanpur, ICAR annual report 2022-23.

4.2.9 National Food Security Mission (NFSM) Districts in CG (2023-24)

| S.No. | Commodities | Chhattisgarh Districts (Nos.) |
|-------|---------------------|--|
| i. | Paddy (14) | Raipur, Baloda Bazar, Rajnandgaon, Kabirdham, Bilaspur, Mungeli, Korba, Raigarh, Gaurela-Pendra-Marwahi (GPM), Korea, Jashpur, Dantewada, Sukma, Bijapur |
| ii. | Pulses (28) | Raipur, Janjgir-Champa, Gariyaband, Mungeli, Mahasamund, Raigarh, Dhamtari, Korba, Baloda Bazar, Bilaspur, Bemetara, Gaurela-Pendra-Marwahi (GPM), Balod, Rajnandgaon, Dantewada, Durg, Narayanpur, Kabirdham, Sukma, Kondagaon, Jashpur, Kanker, Korea, Bastar, Surajpur, Bijapur, Surguja, Balrampur |
| iii. | Nutri-Cereals (10) | Rajnandgaon, Kabirdham, Balrampur, Surguja, Korba, Kondagaon, Kanker, Sukma, Jagdalpur, Dantewada |
| iv. | Coarse Cereals (08) | Gariaband, Balrampur, Surguja, Korba, Surajpur, Kanker, Jagdalpur, Kondagaon |

4.2.10 National Mission on Edible Oils (NMEO) Oilseeds Districts in CG (2023-24)

| Division | Oilpals (19) | TBOs (21) | | Oilseeds (33) | TRFA Oilseeds (13) |
|-----------------|--|---|---|--|---|
| | | Mahua oil (16) | Olive (05) | | |
| Raipur | Raipur, Gariyaband, Mahasamund, | | | Raipur, Baloda-Bajar, Dhamtari, Gariyaband, Mahasamund, | Baloda-Bajar, Gariyaband, |
| Durg | Durg, Kabirdham, | | | Balod, Bemetara, Durg, Kabirdham, Khairagarh-Chhuikhadan-Gandai, MohlaManpur,Rajnandgaon, | Rajnandgaon, Bemetara, |
| Bilaspur | Bilaspur, Gaurella-Pendra-Marwahi, Janjgir-Champa, Korba, Raigarh, Sarangarh-Bilaigarh | Bilaspur, Gaurella-Pendra-Marwahi, Raigarh, Janjgir-Champa | Bilaspur, Gaurella-Pendra-Marwahi | Bilaspur, Gaurella-Pendra-Marwahi Janjgir-Champa Korba, Mungeli, Raigarh, Sakti, Sarangarh-Bilaigarh | Bilaspur, Gaurella-Pendra-Marwahi Mungeli, Raigarh, |
| Surgaja | Jashpur, Sarguja, | Balrampur-Ramanujanj, Jashpur, Sarguja, Korba, Surajpur, | Balrampur-Ramanujanj, Jashpur, Sarguja, | Balrampur- Ramanujanj, Jashpur, Koriya, Manendragarh-Chirmiri-Bharatpur, Surajpur,Sarguja, | Balrampur-Ramanujanj, Sarguja, |
| Bastar | Bastar, Bijapur, Narayanpur, Dantewara, Kondagaon, Kanker, | Jagadalpur, Kondagaon, Kanker, Narayanpur, Bijapur, Dantewara, Sukma, | | Bastar, Bijapur, Narayanpur, Sukma, Dantewara, Kondagaon, Kanker, | Jagadalpur, Kondagaon, Kanker, |

5. Directorate Budget Allocation & Expenditure during 2022-23**(Rs. in Lakh)**

| Sl.No. | Object Head | Budget Allocation | Expenditure |
|----------------|--------------------------|-------------------|---------------|
| 1. | Salary | 109.36 | 109.36 |
| 2. | Medical | 1.80 | 0.74 |
| 3. | Domestic Travel Expenses | 5.00 | 4.39 |
| 4. | Office Expenses | 15.10 | 14.97 |
| 5. | Swachta | 0.90 | 0.90 |
| Total : | | 132.16 | 130.36 |

5.1 Technical Assistants under NFSM Scheme during 2022-23**(Rs. in Lakh)**

| Sl.No. | Object Head | Budget Allocation | Expenditure |
|----------------|--|-------------------|--------------|
| 1. | Honorarium Fee & Conveyance Allowances | 10.17 | 10.15 |
| 2. | TA/DA | 0.73 | 0.65 |
| Total : | | 10.90 | 10.80 |

6. MONITORING, FIELD VISITS & ACTIVITIES OF VARIOUS CROP DEVELOPMENTS PROGRAMMES IN ASSIGNED STATES DURING 2022-23

District - Rewa, State-Mahdy Pradesh



CFLD Demo.-Soybean (Var. JS 20-69)
Village Khajuhkala, Block-Rewa, Distt. Rewa



CFLD Demo.-Arhar (BDN-716) + Urd (Indira Urd-1)
Village Khajuhkala, Block-Rewa (Distt. Rewa)



Interactions with CFLD & Seed Minikits beneficiaries
Distt. Rewa



Seed Processing Plant (Bhole Beej Utpadak Samiti,
Village- Umri, Block-Rewa, Distt. Rewa

District - Satna, State-Mahdy Pradesh



CFLD-Soybean (Var. JS 20-58),
Vill.- Devipura, Block-Showal, Distt. Satna



Visit and Interaction with Kardmeshwar Farmers Producer
Company Limited Nagoud

Photographs with Padma Shri Awardee and Organic Herbal & Medicinal Gardens Grower



With of Padma Shri Awardee Shri Babulal Dahiya At his museum of germplasm collection centre



Visited Shri. Ramlotan Kushwaha's Medicinal Garden and Interacted with Gardener

DISTRICT - DHAMTARI, STATE-CHHATTISGARH



Summer Seed Minikit Distribution under NFSM Scheme Crop/Var.- Urd/Indra Urd 1



New Insect identified in paddy crop namely-Panicle Mite (Spider) & Red Worm

खेतों में पहुंचा निरीक्षण दल, किसानों ने बताई समस्या

कुरुद के ग्राम मोंगरा में केन्द्रीय दल ने किया निरीक्षण, खेतों में कीट व्याधि की समस्या से हुए रुबरु

नवभारत ब्यूरो । धमतरी।

कृषि विभाग के केन्द्रीय निरीक्षण दल ने कुरुद क्षेत्र का दौरा कर किसानों के फसलों का निरीक्षण करने के साथ ही युवाओं एवं सामग्री वितरण के संबंध में चर्चा की। इस दौरान किसानों ने निरीक्षण दल को कीट व्याधि के बढ़ते प्रकोप एवं कृषि लागत बढ़ने की समस्या से केन्द्रीय निरीक्षण दल में शामिल डा.एफे सिखवहरे कार्यालय संयुक्त संचालक कृषि, दलहन/किसान विदेशालय भोपाल भारत सरकार ने कुरुद विकासखण्ड के ग्राम मोंगरा में एनएनएएमयुआ प्रदर्शन का निरीक्षण किया, यहां कुल 100 हेक्टेयर के कलसदर में प्रदर्शन किया गया है। केन्द्रीय दल ने किसान भागत साहु, कोलेशम, शिवलोक साहु, कोलेश साहु, चंद्रमाम, कोमलर के खेतों में प्रवेश का निरीक्षण किया,



साथ ही आदान सामग्री वितरण एवं प्रशिक्षण के बारे में चर्चा की। किसानों ने दल को बताया कि खेतों 2-3 गणों से धान में धानिकत माइट जमाक मकड़ी का प्रकोप बढ़ रहा है, शीपकालीन धान के खेतों में लाल कीड़ा का प्रकोप भी बढ़ा है। उक्त दोनों कीट व्याधि प्रकोप के चलते कृषि लागत में

बढ़ोचरी हुई है और उत्पादन भी प्रभावित हुआ है। केन्द्रीय दल ने खेतों में धान के पौधों में मौजूद कीट का निरीक्षण किया। इस दौरान यहां मौजूद कृषि विभाग के अधिकारियों ने बताया कि कृषि विज्ञान केन्द्र कृषि विश्वविद्यालय को इस संबंध में विभागीय रूप से अवगत कराया गया है, लेकिन यहां से

सफ्ट समाधान वारक रोकथाम व बचाव को अनुरोध किया गया है। निरीक्षण के दौरान अनुसंधान कृषि अधिकारी मनीश सागर, संचालक कृषि वित्तार अधिकारी चण्डीराम, ग्रामीण कृषि विज्ञान अधिकारी डॉ. राम पटेल सहित अन्य अधिकारी कर्मचारी व किसान मौजूद थे।

कातलबोड के किसानों को उड़द का मिनीकिट वितरित

फसल चक्र से मृदा की उर्वरता बढ़ती है : तारिणी

हरिभुमि ब्यूरो | कुरुद

ग्राम कातलबोड में राष्ट्रीय सुरक्षा मिशन (दलहन) योजना अंतर्गत उड़द मिनीकिट का वितरण किया गया। मुख्य अतिथि तारिणी नीलम चंद्रकार कृषि सभापति जिला पंचायत झमतरा ने किसानों को अपने हाथों से मिनीकिट का वितरण कर फसल चक्र परिवर्तन अंतर्गत दलहन तिलहन की फसल लगाने के लिए प्रोत्साहित किया एवं जैविक खेती को अपनाने पर जोर दिया।

इस दौरान उन्होंने फसल चक्र के फायदे गिनाते हुए कहा कि लगातार एक फसल उगाने से मिट्टी में ह्रास उत्पन्न होता है। मिट्टी की उपजता कम होती है। इसे तिलहन दलहन की खेती द्वारा पुनःप्राप्त किया जा



सकता है। जैविक खेती एक ऐसी प्रक्रिया है जिसके द्वारा भूमि की उपजाऊ क्षमता में वृद्धि हो जाती है। भूमि लंबे समय तक खेती लायक बनी रहती है। जैविक खेती के उपयोग से रासायनिक खाद पर निर्भरता कम होने से लागत में कमी आती है और विषैली फसल लोगों तक नहीं पहुंचती साथ ही साथ फसलों की उत्पादन में वृद्धि होती है।

इस अवसर पर सुनीता साहु, सरपंच, देवराय साहु, कामराय साहु, भागीरथी साहु, नरसिंह ठाकुर, हरप्रसाद साहु, बेनीराम साहु, कवलसिंह साहु, सोहनराम, बसंत, हिरामन, रमेश, देवेंद्र, नरेश, गणेशराम, रूपेन्द्र, गुलशन, संतराम, गणपत, बरतू राम व जिले के कृषि विभाग के अधिकारी उपस्थित थे।

Field visit report in Vill.-Mogra & Katalboad Block-Kurud District-Dhamtari Navbharat & Haribhumi newspaper

DISTRICT - GWALIOR, DATIA, SATNA & REWA STATE- MADHYA PRADESH



Seed Minikit Demo.Soybean Var.JS-2069, Gwalior (MP)



NFSM-CSBD –Pulses, Urd-Var.MU-2, Gwalior (MP)



CFLD- Urd Var.- IPU 13-1 KVK-Datia



CFLD-Pulses Urd Var. Indira Urd-1, Datia



Kisan Mela at KVK under Kisan Bhagidari Prathmikta Hamari Campaign under Aazadi ka Amrit Mahotsav



Interaction with Farmers, District- Rewa

NFSM-NLMT VISIT, STATE- CHHATTISGARH (KHARIF 2022)



Seed Minikit of R&M Distribution Var.- RH 725, Kabirdham (CG)



Seed Minikits-Pulses Distribution (Lentil variety KM-2) Village -Sahaspur Dalli, Block- Rajnandgaon



Monitoring of NFSM-Pulses Godown, Village Bijetala, Block-Rajnandgaon



Farmers Feedback/Review of NFSM-Rice Hybrid Rice Village - Barbaspur , Block - Rajnandgaon



NFSM-Rice: Hybrid Rice Cluster Demonstration Variety JK 90-82, Village Barbaspur , Block- Rajnandgaon



NFSM-Rice Stress Tolerance Rice Cluster Demo. Village -Tekapar, Block - Khairagarh

CHHATTISGARH & MADHYA PRADESH FIELD VISIT & OTHER ACTIVITIES



Seed Minikit Demo.-R&M (Var.-RH-761)
Chitrangi block/Lalmati, Distt.-Singrauli



Seed Minikit Demo- R&M (Var.-RH-761)
Chitrangi block/Lalmati, Distt.-Singrauli



Crop Cutting Experiemnt Var. DRMR-1165-40 Piplya
Mana/ Badod, Distt.-Aagar Malwa



CFLD- Chickpea Var. RVG-202, KVK-Balaghat



Seed Minikit Demo.Sesame Var.-GJT-5, Surguja, CG



Kisan Mela at KVK under Kisan Bhagidari Prathmikta
Hamari Campaign under Aazadi ka Amrit Mahotsav

CHHATTISGARH & MADHYA PRADESH FIELD VISIT & OTHER ACTIVITIES



Special Programme- NMEO-OS , Seed Minikit Demo. of Mustard Block –Pali, Village-Chokra Dand



Special Programme- NMEO-OS, Seed Minikit Demo. of Mustard Block–Pali,Village-Chokra Dand

CFLD- Chickpea Var. RVG-202 Village –Masora, Block Kondagoan



Seed Minikit -Oilseeds (Soybean Var.JS-2069) Village –Maika, Block Sohagpur, Distt.-Shahdol

Celebration of “POSHAN Pakhwada” in the event of International Year of Millets 2023

DISTRICT GUNA & TIKAMGARH, STATE: MADHYA PRADESH



Seed Minikit Demonstration-Urd (var-Vallbh Urd 1)
Block/Village - Raghogarh/Aawan, Distt.-Guna



Cluster Demo.- Soybean (var. JS 2069)
Block/Village - Guna/Madhopura, Distt.-Guna



Germinated seed of harvested Urd crop due to heavy rain
(Var.-Pratap Urd 1), Block- Aron, Disst.-Guna



Seed Production Programme by NSC
Var.-JS 2094,Bold seeded-4-5 seeds/pod (FS)
Block/Village - Aron/Bhador, Disst.-Guna



Crop-R&M (Special programme on R&M) Minikit
Demo. Field Variety- RH 761, Distt.-Tikamgarh



R&M Minikit (Special programme) (var.- RH 761)
Block-Jatara, Village-Birotha, Distt.-Tikamgarh

CHHATTISGARH & MADHYA PRADESH FIELD VISIT & OTHER ACTIVITIES



NFSM Seed Minikit (Oilseeds) Mustard (var. Giriraj)
Village Masora, Block & Distt.-Kondagoan,



Seed Minikit of Summer Urd , Var.- Indra Urd 1
Distt.- Dhamtari (CG)



Cluster Demo. of Pulses, Tur Var. Pusa 992,
Distt.- Dhar (MP)



NFSM Seed Minikit (Oilseeds) Soybean (var. JS 2034) Village-
Kadipura, Bblock –Nalcha, Distt.- Dhar (MP)



Seed Minikit Demo. of Sesame Var.-GJT -5, Chhatarpur (MP)



Celebration of “POSHAN Pakhwada” in the event of
International Year of Millets 2023
