



राज्य कृषि-मौसम विज्ञान केंद्र भोपाल  
State Agro-Meteorological Centre Bhopal  
भारत मौसम विज्ञान विभाग  
India Meteorological Department



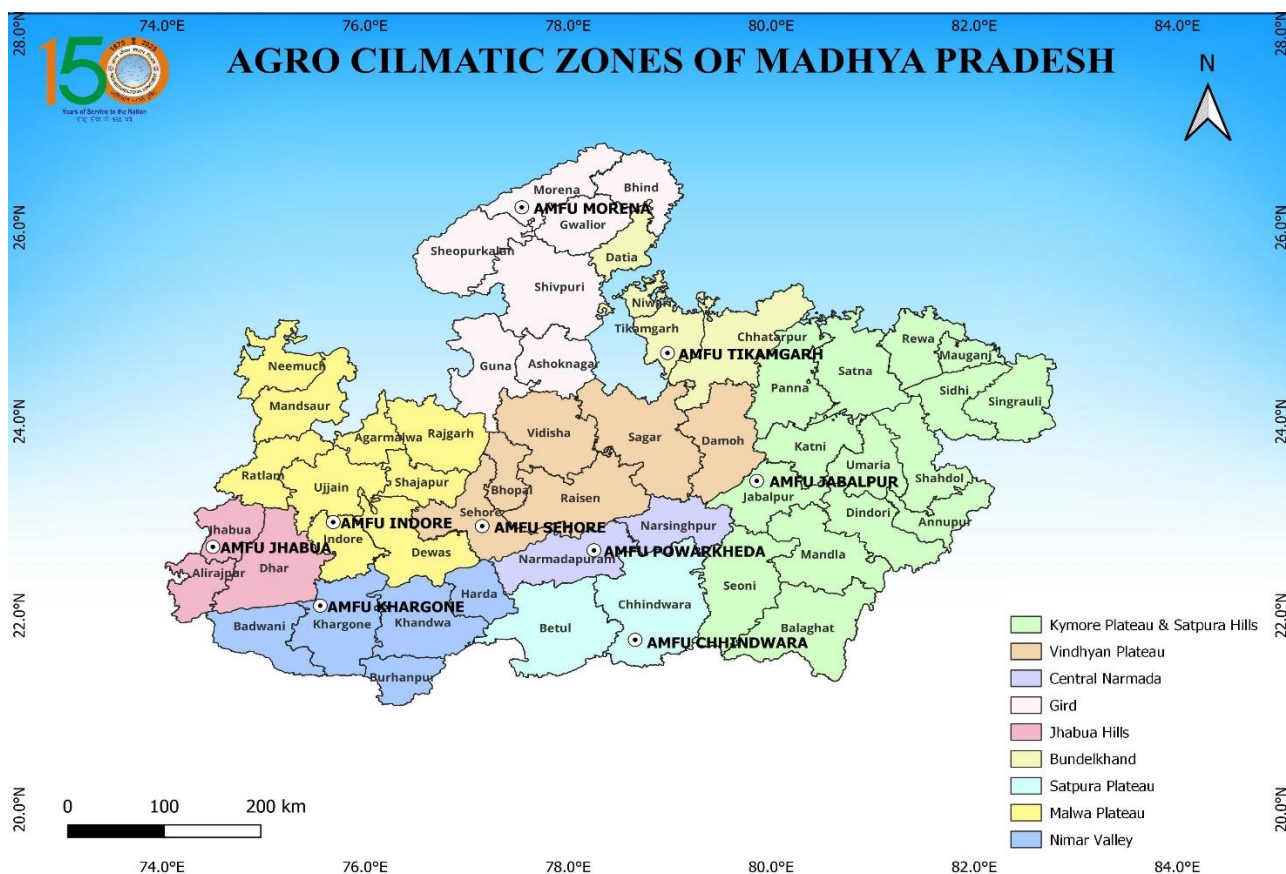
## Agromet Advisory Service Bulletin for the State of Madhya Pradesh

**Bulletin No. 89/2024**

**Issued on Tuesday, 05.11.2024**

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In collaboration with

Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur,

Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior

and

Department of Farmers' Welfare and Agricultural Development, Bhopal, M.P.

## Forecast

No warning for next five days.

## Agromet Advisories

- Undertake land preparation and sowing of rabi crops and vegetables.

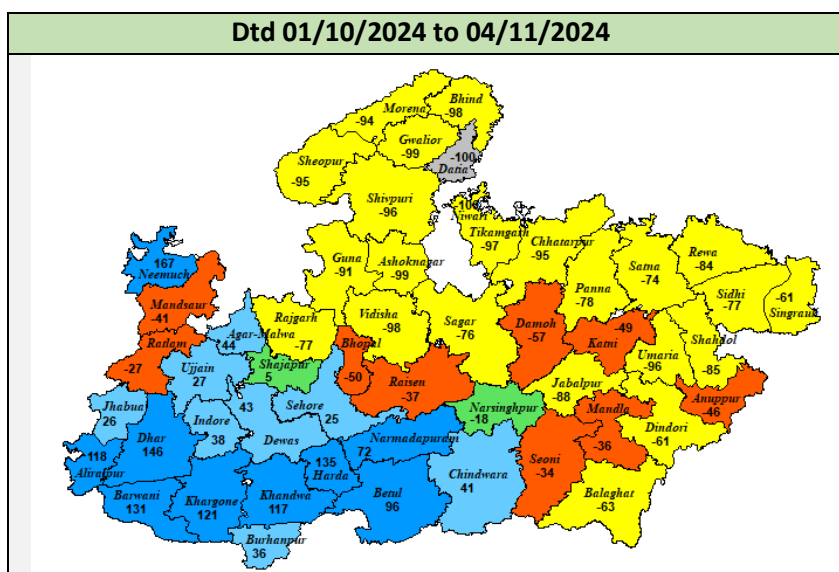
## Synoptic conditions

1. DRY AIR PREVAIL OVER THE STATE.

## Summary of rainfall over the state (01.11.2024 to 04.11.2024):

- Dry weather prevailed over the Madhya Pradesh state during this period.

Dtd 01/10/2024 to 04/11/2024



**LEGEND:** ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)  
 ■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

## Distribution of weather parameters for the period from 01.11.2024 to 04.11.2024

AMFU	Highest		Lowest	
	Maximum Temperature (° C)	District Name and Date	Minimum Temperature (° C)	District Name and Date
Chhindwara	31.8	Betul on 02 Nov.	16.5	Betul on 1, 2, 3 & 4 Nov, Chhindwara on 2 & 4 Nov.
Indore	36.8	Rajgarh on 2 & 3 Nov.	15.5	Shajapur on 3 Nov.
Jabalpur	35.3	Mandla, Rewa, Shahdol, Umari, Jabalpur, Katni on 1 Nov.	13.6	Shahdol on 3 & 4 Nov., Rewa, Sidhi, Mandla on 4 Nov.
Jhabua	34.8	Dhar on 1 Nov.	19.3	Dhar on 2, 3 & 4 Nov.
Khargone	37.1	Barwani on 1 & 2 Nov.	17.5	Barwani on 2 Nov.

<b>Morena</b>	36.4	Guna on 1 Nov.	17.3	Gwalior on 2 Nov., Ashoknagar on 4 Nov.
<b>Powarkheda</b>	35.2	Narmadapuram on 1, 2 & 4 Nov.	19.4	Narmadapuram on 4 Nov.
<b>Sehore</b>	35.5	Damoh on 1, 2 & 3 Nov and Sagar, Sehore, Bhopal on 1 & 2.	16.7	Bhopal on 4 Nov. , Sehore on 1 & 4 Nov., Raisen on 1, 3 & 4 Nov.
<b>Tikamgarh</b>	36.6	Khajuraho on 1 Nov.	16.6	Nowgaon and Tikamgarh on 3 & 4 Nov., Khajuraho on 4 Nov.

- **Highest Maximum Temperature:** 37 °C recorded at Barwani on 01<sup>st</sup> November and at Rajgarh on 02<sup>nd</sup> and 03<sup>rd</sup> November
- **Lowest Minimum Temperature:** 12.2 °C recorded at Anuppur on 04<sup>th</sup> November.
- **Lowest Humidity:** 45 % recorded at Indore on 04<sup>th</sup> November.
- **Highest Humidity:** 96 % recorded at Sidhi on 03<sup>rd</sup> November
- **Day Temperatures departure from normal:** Were normal over the State.
- **Night Temperatures departure from normal:** Were above normal over the State.

#### Rainfall forecast for next 5 days

Sub Division	05-11-2024	06-11-2024	07-11-2024	08-11-2024	09-11-2024
<b>West Madhya Pradesh</b>	DRY	DRY	DRY	DRY	DRY
<b>East Madhya Pradesh</b>	DRY	DRY	DRY	DRY	DRY

**ISOL:** Isolated i.e. Rain at 1 or 2 places

**SCT:** Scattered i.e. Rain at a few places

**FWS:** Fairy Widespread i.e. Rain at many places

**WS:** Widespread i.e. Rain at most places

**DRY:** No rain

#### General Forecast for next 5 days

- No large change in maximum temperature and minimum temperature for next five days

Farmers are advised to download different weather-based application viz; Meghdoot, Damini, Mausam from IOS and google store for acquiring weather-based information.

## Agroclimatic Zonewise/ Agromet Advisories issued by different Agromet Field Units (AMFUs) of Madhya Pradesh

### General Advisory

- Undertake land preparation and sowing of rabi crops like wheat, mustard, linseed, etc.
- Continue nursery preparation and sowing for rabi vegetables.
- Continue picking of cotton.
- Continuously monitor insect-pest in pigeon pea. To control pod borer in pigeon pea, spray 5% NSKE or Quinolphos 25% EC @ 20 ml or Emamectin Benzoate 5% @ 4.5 g per 10 litres of water. Continue nursery sowing of tomato, brinjal, cabbage, cauliflower and sowing of spinach, fenugreek, radish and carrot.
- intercultural operations in timely sown sesame.
- To control fruit borer in tomato, spray Novaluron 10% EC @ 15 ml or Chlorantraniliprole 18.5% S.C. @ 3 ml per 10 litres of water
- After harvesting crop should be dried in the field for 2-3 days and thereafter threshing should be done. Grains should be properly dried to right moisture level before storing. Go downs should be properly cleaned by removing all the grains and other storage matter of previous crop.
- Those farmers who have not been able to get their soil tested in summer, should now take soil samples from 5-6 places per acre to a depth of 6 inches, make samples and send them to the nearest soil testing laboratory for testing.

<b>Rice</b>	<ul style="list-style-type: none"> <li>• Continue harvesting of matured rice.</li> </ul>
<b>Cotton</b>	<ul style="list-style-type: none"> <li>• For better cotton productivity, undertake foliar spray of 2% Urea at the flowering stage and 2% DAP at boll formation stage.</li> </ul>
<b>Mustard</b>	<ul style="list-style-type: none"> <li>• Seed rate: - 1.5-2 kg per acre.</li> <li>• Before sowing seeds should be treated with Thiram or Captan @ 2-2.5 g/ kg of seeds.</li> <li>• Line sowing is beneficial. In non-spreading varieties, row to row spacing should be 30 cm and in spreading cultivars spacing should be 45-50 cm. After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.</li> <li>• Use N:P:K and S (Sulphur) fertilizers @ 80:40:20:20 per ha. and also treat the seed with insecticide (Imidacloprid) and fungicide metalaxyl (31.8) 6.0 g/kg before sowing.</li> <li>• Before sowing, soil testing for sulfur should be done and in deficient areas 20 kg sulfur per hectare should be applied at last ploughing.</li> <li>• Recommended cultivars- Pusa Jai Kisan, Pusa Jagannath, Pusa Sarson-25, Pusa Sarson-26, Pusa Agrni, Pusa Taraka, Pusa Mahak.</li> </ul>
<b>Chick pea</b>	<ul style="list-style-type: none"> <li>• For sowing, preparation of field should be done by doing 2-3 ploughing followed by planking to conserve moisture.</li> <li>• Seed treatment is necessary for the prevention of seed borne diseases, treats the seed with Tricoderma viridi 5g/kg of seed or Thiram 3g/kg of seed and after that seed treatment should be done with 5 grams of Rhizobium culture &amp; 5 grams of P. S. B. culture.</li> <li>• If there is recurring infestation of wilt and collar rot disease in each year, farmers are advised to follow crop rotation. In rabi season wheat, safflower and linseed crops can be sown.</li> </ul>

### **Pea**

- Prepare the field for the green pod pea; sowing should be done.
- Recommended cultivars- Jawahar Matar-1 (JM 1 or GC-141), Jawahar Matar-2 (JM-2 or GC-477), Jawahar Matar-71, Jawahar Pea-15 (JP-15), Jawahar Pea-83 (JP-83).

## Potato

- Prepare the field for potatoes, sowing should also be started.
- Treat the seed with pensiquiron 25ml/quintal of seed.
- Recommended Varieties of Potato Kufri Sindhuri, Kufri Chandramukhi, Kufri Jyoti, Kufri Badshah, Kufri Bahar, Kufri Ashoka, Kufri Pukhraj, Kufri Arun, Kufri Pushkar, Kufri Shailja, Kufri Chipsona-1, Kufri Chipsona-2, Kufri Chipsona-3, Kufri Surya, Kufri Khyati, Kufri Frysona are the popular varieties of Potato under cultivation.

## Satpura Plateau Agro climatic Zone:

### AMFU Chhindwara (Betul, Pandhurna and Chhindwara)

- As mainly dry is expected to prevail during next five days,
  - sowing should be started for rabi crops. After sowing, planking should be done properly to conserve the moisture in the soil.
  - start sowing of Toria and mustard, pea, potato.
  - Continue field preparation and sowing of wheat, chickpea and mustard.
  - Recommended wheat varieties for irrigated condition are M.P. 1203, M.P. 3382, GW 322, GW 366, H.I. 1544, H.I. 8759, MPO 1215, DBW-187, DBW-222, DBW-303, DBW-370, DBW-371, DBW-372 and DBW-316.
  - Recommended wheat varieties for restricted irrigation condition are M.P. 3288, M.P. 3173, M.P.1202.
  - Recommended wheat varieties for non irrigated condition are J.W.S. – 17, M.P. 3020, HI 8627.
  - Recommended wheat varieties for late sown condition are Lok 1, JW 4010, JW 1202.
  - Seed treatment is necessary for the prevention of seed borne diseases, treat the wheat seed with carboxin (Vitavax 75 WP) or benomyl (Benlate 50 WP) 1.5-2.5 or Thirum 2.5-3gm per kg of seed. For control termite treat the seed with chlorpyrifos 20 EC. 400ml per quintal Seed. After that seed treatment should be done with 5-10 grams of Azotobacter & 5 grams of P. S. B. culture.
  - Recommended mustard cultivars- Pusa Jai Kisan, Pusa Jagannath, Pusa Sarson-25, Pusa Sarson-26, Pusa Agrni, Pusa Taraka, Pusa Mahak.
  - For sowing of chick pea, preparation of field should be done by doing 2-3 ploughing followed by planking to conserve moisture. At this time the temperature is high for the sowing of gram. Therefore, the farmer's are advised not to sow gram right now. Field preparation may be started, select and purchase improved varieties of seeds. Sowing can be done only when there is appropriate temperature and sufficient moisture.
  - Recommended varieties of gram JG. 14, JG. 218, Vijay, JG. 322, JG.11, JG.16, B G D 72, Zaki -9218 are the popular varieties under cultivation.
  - Infection of sucking pest has been observed in cotton fields. Therefore, farmers are advised to take spray of Imidacloprid 0.5 ml/liter of water or Imidacloprid + acephate 1 g/liter of water or Verticillium laccan 5 g/liter of water.
  - start sowing of early sown the green vegetables like-reddish, fenugreek, spinach, for vegetable purpose mustard, corianders and turnip at optimum moisture and select the advanced varieties.

- Winter vegetables like cauliflower, cabbage and khol khol early varieties should be selected for nursery sowing. Nursery sowing can be done during clear weather. Preparation for nursery sowing of tomato, brinjal, chillies and capsicum can be done and seed treatment by Thiram should be done @ 2 gram/kg seed.
- In view of dry weather condition during next days; farmers are advised to irrigate the Sugarcane crop. Prepare for sowing of autumn sugarcane. To control of red rot attack in Sugarcane crop spray carbandazim 1g. /liter of water. Use Orchard sprayer for effective spray in sugarcane at any stage.

#### **Central Narmada Agro climatic Zone:**

##### **AMFU Powarkheda (Narsinghpur, Narmadapuram)**

- As mainly dry is expected to prevail during next five days,
  - Undertake field preparation and sowing of wheat, mustard and chick pea.
  - Apply pre sowing irrigation in wheat, mustard and chick pea.
  - Apply irrigation in sugarcane.
  - In sugarcane crop, inter culture operations followed by earthing should be done.
  - Monitor the brinjal crop for Leaf Spot, if observed removal and destruction of affected plant parts and spray the affected plants with Bavistin (0.1%) or Chlorothalonil (2 g/litre of water) for disease control.
  - If Spider Mites observed in chilli crop, spray Emamectin Benzoate 5% SG @ 0.5 gm/lit water.
  - If attack of Fruit borer observed in tomato, spray Indoxacarb 14.5 SC @ 0.5 ml/l water.

#### **Jhabua hills Agro climatic Zone:**

##### **AMFU Jhabua (Jhabua, Alirajpur, Dhar)**

- As mainly dry weather is expected to prevail during next five days,
  - Continue sowing of wheat, chick pea and mustard.
  - Complete sowing of Garlic.
  - Dry the harvested grain/seed at 10 to 12 % moisture level and store it.
  - Give irrigation and recommended dose of fertilizer to vegetable and cotton crop.
  - In cotton, Give 1/10th dose of recommended nitrogen fertilizer in the form of urea at 110-120 DAS
  - During flowering stage of cotton, spray Nephthylacetic acid (NAA) @ 20 ppm for better fruit setting & increasing number of flower.
  - To control sucking pest in BT cotton, spray Thiomethoxim 5.0-7.5 gm/pump (0.35–0.5 gm/l). To control of Fusarium wilt, drenching at root zone of Tebuconazole @ 1 ml/l should be done. To control flower & pod drop, spray planofix @ 2.0 ml/l.
  - continue sowing of pea, onion, potato, carrot, cauliflower, spinach, fenugreek etc.
  - **Wheat: Seed treatment:-** thiram @ 2.0 gm + Carbendazim @ 1.0 gm/kg seed then treat with azotobacter & PSB culture @ 5-5 gm /kg each.
  - Suitable varieties of wheat - **Two irrigation:** HI -1500, HI- 1531 and HW 2004 etc. **Timely Sown and 04 irrigation:** HI-8498, HI -1418, HI- 1479, HI – 1544 and **06 irrigation:** GW-451, GW-322, GW– 366. etc. **Seed rate** is 100 kg/ha.
  - **Mustard: Seed treatment:** mancozeb @ 2.0 gm + Carbendazim @ 1 gm/kg seed.

- Suitable varieties of Mustard - Pusa Jaikisan, RH-749, RH-406, RVM-1, Giraraj, NRCHB-101, RVM-2, IJ-31 etc. **Seed rate** is 5.0 kg/ha.
- **Chickpea: Seed treatment:-** thiram @ 2.0 gm + Carbendazim @ 1 gm/kg seed then treated with rhizobium and PSB culture @ 5-5 gm /kg each.
- **Chickpea: Suitable varieties-** JG-16, JG-130, RVG-204, RVG-205, JAKI-9218, RVG-201, RVG-202, RVG-203. Seed rate – 70-75 kg/ha.

### **Bundelkhand Agro climatic Zone:**

#### **AMFU Tikamgarh (Datia, Tikamgarh, Chhatarpur, Niwari)**

- As mainly dry weather is expected during next five days,
  - Complete sowing of barley, mustard, pea, chickpea, potato and lentil.
  - farmers are advised to sow the recommended improved varieties of wheat in irrigated areas. Before sowing, treat the seeds with carboxin or carbendazim @ 2.5 g./kg to control of loose smut and there after use the azotobacter and PSB culture.
  - Varieties of chick pea: J. G.-130, J. G.-218, J.G.-11, J. G.-6, J. Select G.-16 etc.
  - Fruit borer attacks are observed in brinjal crop, farmers are advised to spray quinalphos 25 E.C. @ 2.0 ml per litre of water. Do not pick up fruits within one week of the spray.
  - Farmers are advised to arrange the early varieties of potato- Kufri Chandramukhi, Kufri Ashok, Kufri Jawahar, Kufri Pukhraj and do seed treatment with Carboxin + Thiram at the rate of 200 grams per quintal seed before sowing and dry in shade and then do sowing.
  - Farmers are advised to sow the early varieties of Pea (Vegetable purpose) like Arkil, V.L-7, Alaska, Jawahar matar-3 and Jawahar matar-4 etc, treat the seed with fungicide keptan or thairum @ 2g/kg and there after use the rhizobium culture.
  - use mulch to enhance germination after the sowing of coriander and garlic.
  - transplant the marigold prepared nursery in main fields.
  - At present fruiting in Guava for better production, therefore farmers are advised to irrigate the Guava.

### **Gird Agro climatic Zone:**

#### **AMFU Morena (Morena, Bhind, Gwalior, Sheopur, Guna, Ashoknagar, Shivpuri)**

- As mainly dry weather is expected to prevail during next five days,
  - continue sowing of rabi crops like mustard, gram, pea, chick pea and potato.
  - improved varieties of gram like – J. G.-16, J. G-24, R.V.G.-202, 203 and 204.
  - improved varieties of field pea like Prakash, Vikas and Rachana etc.
  - To control pod borer in pigeon pea, spray quinalphos 800-850 ml per hectare in 500- 600 litre of water.
  - To control leaf curl (Churramurra disease) in chilli and tomato, apply Thiomethaxam 25 WG. @ 10 grams per hectare in 500 to 600 liters of water.
  - To control stem borer and fruit borer in brinjal crop, spray Spinosad 48 EC 1 ml @ 4 liters of water.
  - To control diamond back moth in cauliflower, apply organic fungicide Beaubaria Bassiana @ 2gm per liter of water.



### **Vindhyan Plateau Agro climatic Zone:**

#### **AMFU Sehore (Sagar, Bhopal, Sehore, Raisen, Vidisha, Damoh)**

- As mainly dry weather is expected to prevail during next five days,
  - Continue sowing of pea, lentil, wheat, mustard and potato.
  - Continue sowing of garlic.
  - Improved Varieties of Lentil – RVL-31 and JL-2
  - Improved Varieties of Wheat- (A) Irrigated – JW-1203, JW-1215, HI-8759, Pusa Tejus etc.  
(B) Semi Irrigated (1-2 Irrigation)- JW-3288, JW-3211, JW-3020, HI-1531, HI-1544,  
(C) Unirrigated- JW-3288, JW-3173
  - Improved Varieties of Gram – RVG-202, JG-130, JG-11, JG-16, JAKI-9218,
  - Improved Varieties of Kabuli Gram – KAK-2, JGK-1
  - Improved Varieties of Sugarcane of winter season – COJN- 86-572 and COJN- 86-141
  - varieties of mustard like - RVM-2, DRMR-IJ 31 (Girraj), RH-749 etc.
  - Potato varieties i.e. Kufri Pukharaj, K. Loker, K. Jawahar, K. Jyoti, Chipsona- 1,2,3,4,5 and K. Surya etc.
  - Seed treatment of Gram and Lentil by Fungicide: premixed combination of Thiram 1.5 gm. + Carbendazim 1.5 gm. /kg seed followed by seed inoculation through rhizobium and PSB culture.
  - In wheat seed should be inoculated with Azotobactor or Azospirillum and PSB culture each 5 gm./kg seed.

### **Malwa Plateau Agro climatic Zone:**

#### **AMFU Indore (Ujjain, Indore, Mandsaur, Ratlam, Shajapur, Dewas, Agar malwa, Neemuch, Rajgarh)**

- As mainly dry weather is likely to prevail during next five days,
  - Continue field preparation and sowing of mustard and chickpea.
  - Suitable varieties for chick pea- JG-16, JG-130, RVG204, RVG-205, JAKI-9218, RVG-201, RVG-202, RVG-203, etc. Seed rate - 30 kg/acre. Recommended cultivars for mustard: Pusa Sarson-25, Pusa Sarson-26, Pusa Agrni, Pusa Taraka, Pusa Mahak

### **Nimar Valley Agro climatic Zone:**

#### **AMFU Khargone (Khargone, Burhanpur, Harda, Barwani, Khandwa)**

- As mainly dry weather is expected to prevail during next five days,
  - Continue field preparation and sowing of wheat and chickpea.
  - Undertake sowing of onion. (Agri Found Light Red onion seedlings for the rabi season).
  - Choose varieties of chick pea: RVG-204, 202, 203, 201, JG-12, JG-14 etc. and use seed rate of 30 kg/acre.
  - For seed treatment of Chickpea: Carboxin 3 gm/ kg + 5gm Trichoderma /kg seed.
  - Early varieties for wheat sowing: HI-1531, HD-2987, HI-1605, JW-3020, 3173, 3211, MP-3288, DBW-110, for timely sowing JW-1201, GW-273, 322, 366, HI-1544, 1636.
  - Late varieties for wheat sowing, select varieties like DBW-187, JW-1202, 1203, MP-3336, HI-1634 etc.
  - In wheat, at the time of sowing, apply 20 kg Urea + 70 kg DAP + 40 kg Potash per acre. Also apply 10 kg Zinc Sulphate per acre before sowing.
  - To remove moisture from the soybean seeds, expose it to sunlight then store it.



- To Protect Arhar crop from Pod fly and Pod borer, spray the crop with Prophenophos-50 @ 30 ml + 15ml Indoxacarb per 15 litre of water.
- Seed treatment of Onion with Thiram 2g/kg seed + Carbendazim 1g/kg of seed before sowing.

#### **Kymore plateau & Satpura Hills Agro climatic Zone:**

**AMFU Jabalpur (Jabalpur, Satna, Maihar, Panna, Seoni, Rewa, Sidhi, Annuppur, Singrauli, Umaria, Mandla, Dindori, Katni, Balaghat, Shahdol)**

- As mainly dry is expected to prevail during next five days,
  - Continue harvesting of matured rice.
  - Continue sowing of rabi crops and vegetables.
  - Continue sowing of pea.

#### **Livestock Advisory**

- Farmers are advised to start sowing of rabi fodder.
- To maintain milk production and prevention from disease cattle sheds should be well protected from flies and mosquitoes.
- Farmers are advised to provide de-worming to the calves of dairy animals.
- Farmers are advised to vaccinate their cattle against H.F. and B.Q disease if not vaccinated previously.
- To control ecto-parasite use Butox or cleaner 2ml/liter of water on whole body of animals. Tie mushika on mouth of animal at the time of using medicines.