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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 13****Date: Tuesday, 13th February, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **26** | **26** | **25** | **25** | **27** | **Maximum temperature will remain between 25-27°C and the minimum between 13- 14°C.** |
| **Mini. T (°C)** | **13** | **13** | **13** | **14** | **13** |
| **Cloud cover (okta)** | **4** | **0** | **0** | **0** | **0** | **Partially cloudy sky on 14th Feb**  |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 13****Date: Tuesday, 13th February, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **26** | **26** | **25** | **25** | **26** | **Maximum temperature will remain between 25-26°C and the minimum between 10- 14°C.** |
| **Mini. T (°C)** | **14** | **12** | **11** | **10** | **11** |
| **Cloud cover (okta)** | **4** | **0** | **0** | **0** | **0** | **Partially cloudy sky on 14th Feb** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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| **Bulletin No. 13****Date: Tuesday, 13th February, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **25** | **26** | **27** | **27** | **28** | **Maximum temperature will remain between 25-28°C and the minimum between 10- 11°C.** |
| **Mini. T (°C)** | **11** | **10** | **10** | **10** | **10** |
| **Cloud cover (okta)** | **3** | **0** | **0** | **0** | **0** | **Partially cloudy sky on 14th Feb** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **25** | **25** | **24** | **25** | **25** | **Maximum temperature will remain between 24-25°C and the minimum between 10- 12°C.** |
| **Mini. T (°C)** | **12** | **11** | **10** | **10** | **11** |
| **Cloud cover (okta)** | **5** | **0** | **0** | **0** | **0** | **Partially cloudy sky on 14th Feb** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **25** | **26** | **25** | **25** | **25** | **Maximum temperature will remain between 25-26°C and the minimum between 10- 12°C.** |
| **Mini. T (°C)** | **14** | **12** | **12** | **10** | **10** |
| **Cloud cover (okta)** | **4** | **0** | **0** | **0** | **0** | **Partially cloudy sky on 14th Feb** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **24** | **24** | **25** | **26** | **27** | **Maximum temperature will remain between 24-27°C and the minimum between 11- 12°C.** |
| **Mini. T (°C)** | **12** | **11** | **11** | **13** | **12** |
| **Cloud cover (okta)** | **4** | **0** | **0** | **0** | **0** | **Partially cloudy sky on 14th Feb** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 13****Date: Tuesday, 13th February, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **26** | **26** | **25** | **25** | **27** | **Maximum temperature will remain between 25-27°C and the minimum between 10- 14°C.** |
| **Mini. T (°C)** | **14** | **12** | **11** | **10** | **11** |
| **Cloud cover (okta)** | **4** | **0** | **0** | **0** | **0** | **Partially cloudy sky on 14th Feb** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 13****Date: Tuesday, 13th February, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **22** | **22** | **22** | **23** | **24** | **Maximum temperature will remain between 22-24°C and the minimum between 12- 13°C.** |
| **Mini. T (°C)** | **14** | **13** | **12** | **12** | **13** |
| **Cloud cover (okta)** | **4** | **0** | **0** | **0** | **0** | **Partially cloudy sky on 14th Feb** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 13****Date: Tuesday, 13th February, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **24** | **24** | **25** | **26** | **27** | **Maximum temperature will remain between 24-27°C and the minimum between 11- 12°C.** |
| **Mini. T (°C)** | **12** | **11** | **11** | **13** | **12** |
| **Cloud cover (okta)** | **4** | **0** | **0** | **0** | **0** | **Partially cloudy sky on 14th Feb** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 13****Date: Tuesday, 13th February, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(Sitamadhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **25** | **26** | **25** | **25** | **25** | **Maximum temperature will remain between 25-26°C and the minimum between 10- 13°C.** |
| **Mini. T (°C)** | **13** | **11** | **10** | **10** | **10** |
| **Cloud cover (okta)** | **4** | **0** | **0** | **0** | **0** | **On 14th Feb partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 13****Date: Tuesday, 13th February, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **22** | **22** | **22** | **23** | **24** | **Maximum temperature will remain between 22-24°C and the minimum between 12- 14°C.** |
| **Mini. T (°C)** | **14** | **13** | **12** | **12** | **13** |
| **Cloud cover (okta)** | **4** | **0** | **0** | **0** | **0** | **Partially cloudy sky on 14th Feb** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 13****Date: Tuesday, 13th February, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **23** | **23** | **25** | **24** | **26** | **Maximum temperature will remain between 23-26°C and the minimum between 10- 14°C.** |
| **Mini. T (°C)** | **14** | **12** | **11** | **10** | **11** |
| **Cloud cover (okta)** | **4** | **0** | **0** | **0** | **0** | **On 14 Feb partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 13****Date: Tuesday, 13th February, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 23.9°C and 11.1°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.6°C at 0700 hrs. and 25.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.9 km/hr, 2.7 hours and 1.8 mm respectively. Dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(14 – 18 February, 2018)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14****February** | **15****February** | **16****February** | **17****February** | **18****February** | **Remarks** |
| **Rainfall(mm)** | **1** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **25** | **26** | **26** | **27** | **28** | **Maximum temperature will remain between 25-28°C and the minimum between 10- 14°C.** |
| **Mini. T (°C)** | **11** | **10** | **10** | **10** | **10** |
| **Cloud cover (okta)** | **5** | **0** | **0** | **0** | **0** | **Partially cloudy sky on 14th Feb** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Summer maize | - | Weather would remain favourable for field preparation and sowing of summer maize. *Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4 & 5* varieties are suitable for sowing in north Bihar region. Seed rate@20 kg per hectare should be used. Farmers are advised to treat seeds with Thiram and *Captaf@2.5* gm per kilogram of seeds. |
| Sweet Potato | - | Sowing of sweet potato is advised. Varieties such as *Cross-4, Rajendra Shakarkand-35 and Rajendra Shakarkand-92* are recommended for planting in this region. At the time of land preparation, apply 200 quintal compost, 60 kg Nitrogen, 40 Kg Phosphorus and 60 Potassium per hectare. |
| *Bhindi* | Sowing | Weather condition is likely to remain favourable for sowing of Bhindi. Farmers are advised to sow the crop. The varieties *Parvani Kranti, Arka Abhay, Arka Anamika, Barsha Uphar, KS-312, Okra-4, Punjab-7, Pant Bhindi-1, Kashi Pragati, Bhawani, Krisna, Indranil, Kashi Bhairav* are recommended for sowing. Apply 200 quintal compost, 120 kg Nitrogen, 60 Kg Phosphorus and 60 Potassium per hectare. Seed rate@15-18 Kg/ha is advised. |
| Coriander, Fenugreek, Cumin, Fennel | - | Apply light irrigation to these spices crops. Against stem gall disease in coriander, apply Endophyl M-45 @ 2.5 gm plus Bavistin @1.0 per litre of water. Spray of this solution is advised at an interval of 10-15 days. |
| Wheat | Booting to panicle initiation | Farmers are advised to provide irrigation in timely sown wheat crop which is in booting to panicle initiation stage. Application of 30 kg nitrogen/ha after irrigation. |
| Mustard | Flowering to siliqua formation | Monitoring is advised for mustard aphid in the crop. Both the nymphs and adults suck cell sap from leaves, stems, inflorescence or developing pods. Due to very high population of the pest, the vitality of plants is greatly reduced. The leaves acquire a curly appearance, the flowers fail to form pods and the developing pods do not produce healthy seeds. If insect population is above ETL, spraying of Dimethoate 30EC @ 1.5 ml/litre of water is advised. |

**(A. Sattar)**

**(Nodal Officer)**