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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. 25****Date: Tuesday, 10 April, 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **34** | **35** | **37** | **38** | **37** | **Maximum temperature will remain between 34-38°C and the minimum between 22- 23°C.** |
| **Mini. T (°C)** | **22** | **22** | **23** | **23** | **22** |
| **Cloud cover (okta)** | **4** | **2** | **2** | **1** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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. 25****Date: Tuesday, 10 April, 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **32** | **34** | **35** | **35** | **36** | **Maximum temperature will remain between 32-36°C and the minimum between 21- 23°C.** |
| **Mini. T (°C)** | **22** | **21** | **22** | **22** | **23** |
| **Cloud cover (okta)** | **4** | **3** | **1** | **1** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **60** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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. 25****Date: Tuesday, 10 April, 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **4** | **4** | **3** | **0** | **0** | **Light rainfall** |
| **Max. T (°C)** | **32** | **35** | **36** | **36** | **37** | **Maximum temperature will remain between 32-37°C and the minimum between 21- 22°C.** |
| **Mini. T (°C)** | **22** | **21** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **6** | **3** | **3** | **0** | **1** | **Thunder clouds** |
| **Max Relative Humidity (%)** | **80** | **70** | **70** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **33** | **36** | **37** | **37** | **37** | **Maximum temperature will remain between 33-37°C and the minimum between 21- 22°C.** |
| **Mini. T (°C)** | **22** | **21** | **22** | **22** | **22** |
| **Cloud cover (okta)** | **4** | **3** | **3** | **0** | **1** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **70** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **5** | **3** | **0** | **0** | **0** | **Light rainfall** |
| **Max. T (°C)** | **31** | **34** | **35** | **34** | **35** | **Maximum temperature will remain between 31-35°C and the minimum between 21- 23°C.** |
| **Mini. T (°C)** | **22** | **21** | **22** | **22** | **23** |
| **Cloud cover (okta)** | **6** | **3** | **2** | **0** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **70** | **60** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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**

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**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **32** | **35** | **35** | **34** | **35** | **Maximum temperature will remain between 32-35°C and the minimum between 23- 24°C.** |
| **Mini. T (°C)** | **24** | **23** | **23** | **24** | **24** |
| **Cloud cover (okta)** | **4** | **3** | **1** | **2** | **0** | **Thunder clouds** |
| **Max Relative Humidity (%)** | **60** | **60** | **60** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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. 25****Date: Tuesday, 10 April, 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **32** | **34** | **35** | **35** | **36** | **Maximum temperature will remain between 32-36°C and the minimum between 21- 23°C.** |
| **Mini. T (°C)** | **22** | **21** | **22** | **22** | **23** |
| **Cloud cover (okta)** | **4** | **2** | **2** | **1** | **0** | **Thunder clouds** |
| **Max Relative Humidity (%)** | **70** | **70** | **60** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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. 25****Date: Tuesday, 10 April, 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **33** | **35** | **37** | **37** | **38** | **Maximum temperature will remain between 33-38°C and the minimum between 19- 23°C.** |
| **Mini. T (°C)** | **23** | **21** | **19** | **20** | **21** |
| **Cloud cover (okta)** | **4** | **2** | **2** | **1** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **60** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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. 25****Date: Tuesday, 10 April, 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **32** | **35** | **36** | **35** | **36** | **Maximum temperature will remain between 32-36°C and the minimum between 21- 23°C.** |
| **Mini. T (°C)** | **23** | **21** | **21** | **22** | **23** |
| **Cloud cover (okta)** | **4** | **2** | **2** | **2** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **60** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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. 25****Date: Tuesday, 10 April, 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **31** | **35** | **36** | **35** | **36** | **Maximum temperature will remain between 31-36°C and the minimum between 21- 22°C.** |
| **Mini. T (°C)** | **22** | **22** | **22** | **21** | **22** |
| **Cloud cover (okta)** | **4** | **2** | **2** | **2** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **60** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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. 25****Date: Tuesday, 10 April, 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **33** | **35** | **37** | **37** | **38** | **Maximum temperature will remain between 33-38°C and the minimum between 21- 23°C.** |
| **Mini. T (°C)** | **23** | **21** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **4** | **3** | **2** | **1** | **0** | **Thunder clouds** |
| **Max Relative Humidity (%)** | **60** | **60** | **60** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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. 25****Date: Tuesday, 10 April, 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **34** | **36** | **35** | **36** | **37** | **Maximum temperature will remain between 34-37°C and the minimum between 23- 24°C.** |
| **Mini. T (°C)** | **24** | **24** | **23** | **24** | **24** |
| **Cloud cover (okta)** | **4** | **2** | **1** | **1** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **60** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
 |
| Mango and litchi | \_ | Spraying of Planofix @1.0 ml per 3 litres of water is suggested in mango and litchi orchards under clear weather conditions. This will help reduce fruit drop. Application of Imidachlor@1.0 ml per litre of water is also advised. |
| Tomato | Fruiting  | Monitoring is advised in tomato crops for infestation of fruit borer insect. If infestation is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruits and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water, if pest population reaches ETL.  |
| Green gram/Black gram | Sowing | Taking advantage of light rainfall which brought enough soil moisture in the fields, farmers are advised to finish the sowing of green gram and black gram by 15 April. Application of 20 kg Nitrogen, 40 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised before sowing.  |
| Cucurbitaceous crops | Sowing | Weather is remaining congenial for sowing of *bhindi* and Cucurbitaceous crops. Farmers are advised to sow these crops. Farmers who have sown these crops are advised not to give any irrigation in view of rainfall forecast. Spray of Monocil/Malathion @1.0-1.5 ml per 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. 25****Date: Tuesday, 10 April, 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 31.5°C and 21.4°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 65 percent at 1400 hrs. Soil temperature at 5 cm depth was 22.4°C at 0700 hrs. and 27.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 4.9 hours and 4.2 mm respectively. Severe hailstorm occurred on 7 April in Muzaffarpur, Saran, Vaishali, Samastipur, Darbhanga districts of north Bihar.

**Medium Range Weather Forecast**

 **(11-15 April, 2018)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11 April** | **12 April** | **13 April** | **14 April** | **15 April** | **Remarks** |
| **Rainfall(mm)** | **5** | **2** | **1** | **0** | **0** | **Light rainfall** |
| **Max. T (°C)** | **32** | **36** | **37** | **36** | **37** | **Maximum temperature will remain between 32-37°C and the minimum between 20- 22°C.** |
| **Mini. T (°C)** | **22** | **20** | **21** | **20** | **20** |
| **Cloud cover (okta)** | **5** | **3** | **3** | **0** | **1** | **Thunder clouds** |
| **Max Relative Humidity (%)** | **80** | **70** | **70** | **60** | **60** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **20** | **20** | **20** |  |
| **Wind speed (kmph)** | **10** | **110** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Easterly/Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Wheat | Harvesting | In view of rain forecast, farmers of East Champaran, West Champaran, Madhubani and Darbhanga districts are advised to take precaution in the harvesting and threshing of wheat crop. However, farmers of other north Bihar districts are advised to do the work of wheat harvesting and threshing.  |
| Lady’s finger | Fruiting | * Monitoring is advised for infestation of leaf hopper in okra. The damage is caused due to sucking of sap by hoppers, which lead to curling and crinkling of leaves. In case of heavy infestation the leaves turn brick red and crumble. If hopper crosses ETL (5 hoppers/plant), spraying of Imidacloprid @ 0.5ml/liter of water is advised.
* Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
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