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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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **10** | **15** | **Light rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **38** | **38** | **Maximum temperature will remain between 38-29°C and the minimum between 27-29°C.** |
| **Mini. T (°C)** | **29** | **29** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **10** | **15** | **Dry weather** |
| **Max. T (°C)** | **38** | **38** | **39** | **38** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between 27- 29°C.** |
| **Mini. T (°C)** | **29** | **29** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **10** | **15** | **Light rainfall** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **39** | **Maximum temperature will remain between 39-41°C and the minimum between 28- 30°C.** |
| **Mini. T (°C)** | **29** | **28** | **28** | **30** | **28** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **10** | **15** | **Light rainfall** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **39** | **Maximum temperature will remain between 39-41°C and the minimum between 28- 30°C.** |
| **Mini. T (°C)** | **29** | **28** | **28** | **30** | **28** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **10** | **30** | **40** | **Light Rainfall** |
| **Max. T (°C)** | **38** | **38** | **37** | **35** | **33** | **Maximum temperature will remain between 33-38°C and the minimum between 26- 29°C.** |
| **Mini. T (°C)** | **28** | **29** | **27** | **27** | **26** |
| **Cloud cover (okta)** | **6** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **50** | **55** | **60** | **65** | **70** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **10** | **15** | **Light rainfall** |
| **Max. T (°C)** | **39** | **40** | **40** | **39** | **38** | **Maximum temperature will remain between 38-40°C and the minimum between 27- 29°C.** |
| **Mini. T (°C)** | **29** | **28** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **10** | **15** | **Light rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **38** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between 27- 29°C.** |
| **Mini. T (°C)** | **29** | **29** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **10** | **15** | **Light rainfall** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **39** | **Maximum temperature will remain between 39-41°C and the minimum between 28- 30°C.** |
| **Mini. T (°C)** | **29** | **28** | **28** | **30** | **28** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **10** | **15** | **Light rainfall** |
| **Max. T (°C)** | **39** | **40** | **40** | **39** | **38** | **Maximum temperature will remain between 38-40°C and the minimum between 27- 29°C.** |
| **Mini. T (°C)** | **29** | **28** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **10** | **15** | **Light rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **38** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between 27- 29°C.** |
| **Mini. T (°C)** | **29** | **29** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **10** | **15** | **Light rainfall** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **39** | **Maximum temperature will remain between 39-41°C and the minimum between 28- 30°C.** |
| **Mini. T (°C)** | **29** | **28** | **28** | **30** | **28** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **10** | **15** | **Light rainfall** |
| **Max. T (°C)** | **39** | **40** | **40** | **39** | **38** | **Maximum temperature will remain between 38-40°C and the minimum between 27- 29°C.** |
| **Mini. T (°C)** | **29** | **28** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(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. 43**  **Date: Tuesday, 19 June, 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 37.9°C and 26.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 36.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 8.8 hours and 6.4 mm respectively. Mainly dry weather prevailed north Bihar districts. Mainly dry weather prevailed all over Bihar.

**Medium Range Weather Forecast**

**(20 - 24 June, 2018)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **20 June** | **21 June** | **22 June** | **23 June** | **24 June** | **Remarks** |
| **Rainfall(mm)** | **0** | **10** | **10** | **10** | **15** | **Light rainfall** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **39** | **Maximum temperature will remain between 39-41°C and the minimum between 28- 30°C.** |
| **Mini. T (°C)** | **29** | **28** | **28** | **30** | **28** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **7** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **60** | **60** | **70** | **75** | **90** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **30** | **35** | **60** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Sugarcane | Tillering stage | In view of current high temperature and dry spell, there would be moisture deficiency in spring planted sugarcane field, which may lead to incidence of shoot borers in the crop. Farmers are advised to give irrigation to the crop and remove the dead shoots form the crop field. |
| Maize, vegetable and paddy seeddling | - | In view of lesser chance of good rainfall all over north Bihar, farmers are advised to give irrigation to the standing crops such as vegetables, maize and rice nurseries as temperature during the forecast period is likely to remain higher than normal and there is likelihood of dry spell in the region before arrival of monsoon. |
| Vegetables | Sowing | Weather is congenial for sowing of kharif vegetables. Farmers are advised to apply fertilizers based on soil test. If such test has not been done in their field, they are suggested to apply 20-25 tonnes of cow dung per hectare. Also apply 60 kg N, 50 Phosphorus and 40 kg potassium per hectare. |
| *Kharif* maize | Sowing | Sowing of *kharif* maize varieties such as Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki is recommended. |
| Bhindi | Sowing | Farmers are advised to plant *bhindi* crop. *Arka Abhay, Pant bhindi 1 and Kashi Leela* are recommended varieties for sowing in north Bihar districts. Against fruit borer and mosaic, spray of [Malathion@2.0](mailto:Malathion@2.0) to 2.5 ml per litre of water at an interval of 15 days is advised. |
| *Kharif* onion | Nursery preparation | Nursery preparation is advised for *kharif* onion. Application of FYM/compost is also advised in nursery for healthy seedlings. *Agri Found Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for *kharif* onion. Farmers are advised to arrange the seeds from reliable sources. |
| Animal | - | Vaccination of cattles is advised against Anthrax, Black Quarter etc. Farmers are advised to feed their cattle Ecolite oral and sacolite D mixing with water to offset the bad impact of hot condition. |

**(A. Sattar)**

**(Nodal Officer)**