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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. 52**  **Date: Friday, 20 July, 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **37** | **37** | **Maximum temperature will remain between 37-38°C and the minimum between 28-29°C.** |
| **Mini. T (°C)** | **28** | **28** | **29** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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. 52**  **Date: Friday, 20 July, 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **37** | **37** | **Maximum temperature will remain between 37-38°C and the minimum between 28- 29°C.** |
| **Mini. T (°C)** | **28** | **28** | **29** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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. 52**  **Date: Friday, 20 July, 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **38** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between 28- 29°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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. 52**  **Date: Friday, 20 July, 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **38** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between 28- 29°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **6** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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. 52**  **Date: Friday, 20 July, 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **37** | **37** | **Maximum temperature will remain between 37-38°C and the minimum between**  **28- 29°C.** |
| **Mini. T (°C)** | **28** | **28** | **29** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **37** | **37** | **Maximum temperature will remain between 37-38°C and the minimum between 28- 30°C.** |
| **Mini. T (°C)** | **30** | **30** | **29** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
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| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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. 52**  **Date: Friday, 20 July, 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **37** | **37** | **Maximum temperature will remain between 37-38°C and the minimum between 28- 29°C.** |
| **Mini. T (°C)** | **28** | **28** | **29** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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. 52**  **Date: Friday, 20 July, 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **37** | **37** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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. 52**  **Date: Friday, 20 July, 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **37** | **37** | **Maximum temperature will remain between 37-38°C and the minimum 28 - 30°C.** |
| **Mini. T (°C)** | **30** | **30** | **29** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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. 52**  **Date: Friday, 20 July, 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **37** | **37** | **Maximum temperature will remain between 37-38°C and the minimum between 28 29°C.** |
| **Mini. T (°C)** | **28** | **28** | **29** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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. 52**  **Date: Friday, 20 July, 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **38** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between**  **28- 29°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **37** | **37** | **Maximum temperature will remain between 37-38°C and the minimum between**  **28 - 29°C.** |
| **Mini. T (°C)** | **28** | **28** | **29** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm 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. 52**  **Date: Friday, 20 July, 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 36.3°C and 28.5°C respectively. Average relative humidity was 81 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.8°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 9.7 km/hr. 7.9 hours and 5.6 mm respectively. High temperature and dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(21– 25 July, 2018)**

**(West Champaran)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **21 July** | **22 July** | **23 July** | **24 July** | **25 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **38** | **38** | **Maximum temperature will remain between**  **38- 39°C and the minimum between**  **28- 29°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **6** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
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| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Rice | Transplanting | In view of weak monsoon phase during the forecasted period, farmers are advised to continue to provide life saving irrigation. They should avoid transplanting in the upland areas. |
| Turmeric, elephant footyam, Sugarcane | \_ | In view of high temperature and prolong dry spell, farmers are advised to give irrigation to standing crops such as turmeric, elephant footyam and sugarcane. Weeding is advised in turmeric crop. |
| Yambean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar. |
| Sesamum *(Til)* | Sowing | Complete the sowing of sesamum crop at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Kharif maize | Early vegetative to Knee high stage | In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Sunflower | Sowing | Complete the sowing of sunflower crop at the earliest in the upland and medium land areas. *Mordane, Surya, CO-1, Pairadevik and DRSF-108* for composite and *BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8* for hybrid varieties of sunflower is recommended for sowing in North Bihar.Seed should be treated with Thiram/Captaaf @ 2.5 gram/ kg of seed. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |

**(A. Sattar)**

**(Nodal Officer)**