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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. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 36.0°C and 26.3°C, respectively. Average relative humidity was 88 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 40.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.1km/hr, 8.1 hours and 6.3mm, respectively. At the center, about 5.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **0** | **5** | **2** | **5** | **2** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Sowing of *kharif* onion in raised bed is advised. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed. * Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight/rainfall. |
| Sesamum *(Til)* | Sowing | Sowing of sesamum is advised. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(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. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 36.0°C and 26.3°C, respectively. Average relative humidity was 88 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 40.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.1km/hr, 8.1 hours and 6.3mm, respectively. At the center, about 5.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **0** | **2** | **10** | **5** | **3** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Sowing of *kharif* onion in raised bed is advised. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed. * Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight/rainfall. |
| Sesamum *(Til)* | Sowing | Sowing of sesamum is advised. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(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. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 36.0°C and 26.3°C, respectively. Average relative humidity was 88 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 40.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.1km/hr, 8.1 hours and 6.3mm, respectively. At the center, about 5.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **10** | **10** | **10** | **5** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Sowing of *kharif* onion in raised bed is advised. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed. * Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight/rainfall. |
| Sesamum *(Til)* | Sowing | Sowing of sesamum is advised. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(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. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 36.0°C and 26.3°C, respectively. Average relative humidity was 88 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 40.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.1km/hr, 8.1 hours and 6.3mm, respectively. At the center, about 5.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **0** | **2** | **5** | **10** | **2** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Sowing of *kharif* onion in raised bed is advised. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed. * Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight/rainfall. |
| Sesamum *(Til)* | Sowing | Sowing of sesamum is advised. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(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. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **10** | **10** | **5** | **2** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
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| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(A. Sattar)**

**(Nodal Officer)**

|  |  |  |
| --- | --- | --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

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**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **0** | **5** | **2** | **5** | **2** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Sowing of *kharif* onion in raised bed is advised. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed. * Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight/rainfall. |
| Sesamum *(Til)* | Sowing | Sowing of sesamum is advised. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(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. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 36.0°C and 26.3°C, respectively. Average relative humidity was 88 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 40.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.1km/hr, 8.1 hours and 6.3mm, respectively. At the center, about 5.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **0** | **3** | **2** | **3** | **5** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Sowing of *kharif* onion in raised bed is advised. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed. * Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight/rainfall. |
| Sesamum *(Til)* | Sowing | Sowing of sesamum is advised. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(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. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 36.0°C and 26.3°C, respectively. Average relative humidity was 88 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 40.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.1km/hr, 8.1 hours and 6.3mm, respectively. At the center, about 5.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **3** | **2** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Sowing of *kharif* onion in raised bed is advised. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed. * Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight/rainfall. |
| Sesamum *(Til)* | Sowing | Sowing of sesamum is advised. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(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. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 36.0°C and 26.3°C, respectively. Average relative humidity was 88 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 40.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.1km/hr, 8.1 hours and 6.3mm, respectively. At the center, about 5.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **0** | **5** | **3** | **4** | **2** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Sowing of *kharif* onion in raised bed is advised. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed. * Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight/rainfall. |
| Sesamum *(Til)* | Sowing | Sowing of sesamum is advised. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(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. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 36.0°C and 26.3°C, respectively. Average relative humidity was 88 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 40.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.1km/hr, 8.1 hours and 6.3mm, respectively. At the center, about 5.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **10** | **5** | **1** | **3** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Sowing of *kharif* onion in raised bed is advised. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed. * Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight/rainfall. |
| Sesamum *(Til)* | Sowing | Sowing of sesamum is advised. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(A. Sattar)**

**(Nodal Officer)**

|  |  |  |
| --- | --- | --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 36.0°C and 26.3°C, respectively. Average relative humidity was 88 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 40.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.1km/hr, 8.1 hours and 6.3mm, respectively. At the center, about 5.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **0** | **2** | **2** | **3** | **2** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Sowing of *kharif* onion in raised bed is advised. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed. * Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight/rainfall. |
| Sesamum *(Til)* | Sowing | Sowing of sesamum is advised. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(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. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 36.0°C and 26.3°C, respectively. Average relative humidity was 88 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 40.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.1km/hr, 8.1 hours and 6.3mm, respectively. At the center, about 5.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **0** | **2** | **5** | **3** | **2** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
| *Kharif* Rice | Nursery  sowing | * As light to medium rainfall has happened over North Bihar districts over the last forecasted period. Taking advantage of this rainfall, farmers are advised to give priority in nursery sowing of paddy. * Nursery sowing in the upland areas is advised for early varieties of paddy such as *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4 and Rajendra Bhagwati.* Before sowing, seeds should be treated with Carbendazim@2.0 gram/kg of seed. * Farmers are advised to finish the nursery sowing of medium duration rice varieties such as *Sita, Santosh, Saroj, Rajendra sweta, Rajendra suhasni, Rajendra kasturi, Kamini and Sugandha* at the earliest. Weeding is advised in 10-12 days old paddy nursery. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Sowing of *kharif* onion in raised bed is advised. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed. * Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight/rainfall. |
| Sesamum *(Til)* | Sowing | Sowing of sesamum is advised. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| *Kharif* Maize | Sowing | Complete the sowing of *kharif* maize at the earliest. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are recommended for North Bihar. Application of 100 quintal of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised before sowing. Seed rate@20 kg per hectare is advised. |
| Pigeon Pea *(Arher)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar)* and sunflower. Application of well decomposed FYM/Compost is suggested during land preparation. It increases the water use efficiency and nutrient quantity in the soil. |
| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(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. 51**  **Date: Saturday, 29 June,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 36.0°C and 26.3°C, respectively. Average relative humidity was 88 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 40.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.1km/hr, 8.1 hours and 6.3mm, respectively. At the center, about 5.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 June-3 July, 2019)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **June** | **30**  **June** | **1**  **July** | **2**  **July** | **3**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **10** | **10** | **10** | **5** | **Light to medium rainfall** |
| **Max. T (°C)** | **40** | **38** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **2** | **4** | **6** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **50** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Summer maize | Harvesting | In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. |
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| Livestock | **-** | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(A. Sattar)**

**(Nodal Officer)**