|  |  |  |
| --- | --- | --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **9** | **10** | **15** | **10** | **30** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **10** | **10** | **25** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **30** | **45** | **35** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **10** | **25** | **25** | **25** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **10** | **10** | **40** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **10** | **25** | **40** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **15** | **10** | **50** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **10** | **30** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **10** | **15** | **20** | **5** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **15** | **15** | **30** | **15** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **10** | **35** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **10** | **15** | **10** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(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. 52**  **Date: Tuesday, 2 July,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 38.1°C and 26.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.1°C at 0700 hrs and 36.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.5km/hr, 7.9 hours and 5.8mm, respectively. At the center, about 10.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(3-7 July, 2019)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3**  **July** | **4**  **July** | **5**  **July** | **6**  **July** | **7**  **July** | **Remarks** |
| **Rainfall(mm)** | **15** | **15** | **35** | **45** | **20** | **Light rainfall in next 2-3 days, thereafter chances of medium rainfall due to active monsoon** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **32** | **-** |
| **Mini. T (°C)** | **26** | **25** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop. | | |
| *Kharif* paddy | Nursery  Sowing/ Transplanting | * Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar. * As light rainfall has happened over North Bihar districts over the last last forecasted period and in view of rainfall forecast, farmers are advised for rice transplanting in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. |
| *Kharif* /Summer  Vegetables | Sowing/  Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area. * Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases. |
| *Kharif* onion | Nursery  sowing | * Nursery 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 and rainfall. * Protect the nursery crop against damping off disease infestation. |
| 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. * Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given. * Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept. |

**(A. Sattar)**

**(Nodal Officer)**