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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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **0** | **20** | **20** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **0** | **20** | **20** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **10** | **10** | **50** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **10** | **20** | **20** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **5** | **10** | **20** | **30** | **10** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **10** | **0** | **0** | **20** | **30** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **0** | **20** | **20** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **5** | **0** | **0** | **20** | **10** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **20** | **0** | **0** | **10** | **50** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **10** | **5** | **5** | **10** | **50** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **10** | **5** | **0** | **10** | **10** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **10** | **0** | **0** | **50** | **15** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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* 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. |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Treated seed should be used for healthy growth of crops. |
| *Kharif* Maize | Sowing | Sowing of *kharif* maize is advised. *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)/*  Sesamum *(Til)/*  Sunflower | Land  preparation | Land preparation is advised for sowing of pigeon pea *(Arhar),* sesamum*(Til)* 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. |
| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | 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. 49**  **Date: Friday, 21 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 39.2°C and 28.2°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 42 percent at 1400 hrs. Soil temperature at 5 cm depth was 32.4°C at 0700 hrs and 42.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.9km/hr, 8.8 hours and 7.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(22-26 June, 2019)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **22**  **June** | **23**  **June** | **24**  **June** | **25**  **June** | **26**  **June** | **Remarks** |
| **Rainfall(mm)** | **10** | **5** | **5** | **15** | **20** | **Chances of light rainfall, medium rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **36** | **37** | **36** | **35** | **-** |
| **Mini. T (°C)** | **28** | **27** | **28** | **27** | **25** |
| **Cloud cover (okta)** | **5** | **6** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **85** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **45** | **50** | **45** | **50** | **50** |  |
| **Wind speed (kmph)** | **12** | **10** | **10** | **12** | **12** |  |
| **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. Farmers are also advised to postpone irrigation and spraying of pesticides in the standing crops. | | |
| *Kharif* Rice | Nursery  sowing | * 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. |
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| *Kharif* /Summer  Vegetables | Flowering/  Fruiting | * Land preparation is advised for *kharif* vegetables. For healthy crop production, application of FYM/compost is advised during land preparation. * Intercultural operation is advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. * To protect the summer vegetables from leaf feeder/fruit borer insect-pest, spraying of Di-methoate 30 EC @1-1.5ml/L of water is advised. |
| Livestock | **-** | Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. |

**(A. Sattar)**

**(Nodal Officer)**