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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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **1** | **2** | **2** | **2** | **2** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **37** | **38** | **40** | **39** | **40** | **-** |
| **Mini. T (°C)** | **28** | **28** | **29** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **5** | **5** | **2** | **4** | **Partially sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **1** | **2** | **2** | **2** | **2** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **36** | **37** | **38** | **36** | **37** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **27** | **27** |
| **Cloud cover (okta)** | **5** | **6** | **4** | **2** | **4** | **Partially sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **2** | **5** | **3** | **5** | **2** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **37** | **37** | **38** | **39** | **39** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **27** | **28** |
| **Cloud cover (okta)** | **2** | **5** | **2** | **3** | **3** | **Partially sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **2** | **2** | **2** | **5** | **2** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **36** | **37** | **38** | **38** | **38** | **-** |
| **Mini. T (°C)** | **28** | **27** | **27** | **28** | **28** |
| **Cloud cover (okta)** | **4** | **4** | **6** | **2** | **2** | **Partially sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **2** | **3** | **5** | **2** | **3** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **37** | **36** | **37** | **38** | **38** | **-** |
| **Mini. T (°C)** | **27** | **28** | **28** | **27** | **28** |
| **Cloud cover (okta)** | **2** | **6** | **3** | **2** | **2** | **Partially sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **1** | **2** | **3** | **2** | **2** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **35** | **36** | **36** | **37** | **38** | **-** |
| **Mini. T (°C)** | **27** | **28** | **28** | **29** | **29** |
| **Cloud cover (okta)** | **2** | **5** | **3** | **2** | **2** | **Partially sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **2** | **1** | **3** | **1** | **2** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **37** | **36** | **37** | **38** | **38** | **-** |
| **Mini. T (°C)** | **28** | **29** | **30** | **29** | **29** |
| **Cloud cover (okta)** | **2** | **5** | **2** | **3** | **2** | **Partially sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **85** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **2** | **2** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **37** | **38** | **40** | **41** | **41** | **-** |
| **Mini. T (°C)** | **29** | **30** | **30** | **30** | **30** |
| **Cloud cover (okta)** | **2** | **3** | **2** | **1** | **2** | **Partially sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **1** | **1** | **2** | **0** | **0** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **37** | **37** | **37** | **38** | **38** | **-** |
| **Mini. T (°C)** | **27** | **28** | **28** | **27** | **27** |
| **Cloud cover (okta)** | **3** | **4** | **1** | **1** | **1** | **Partially sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **70** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **2** | **1** | **3** | **2** | **3** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **35** | **35** | **37** | **38** | **38** | **-** |
| **Mini. T (°C)** | **27** | **28** | **28** | **27** | **28** |
| **Cloud cover (okta)** | **3** | **5** | **2** | **1** | **1** | **Partially sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **39** | **38** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **29** | **30** | **30** | **30** | **29** |
| **Cloud cover (okta)** | **2** | **5** | **2** | **2** | **3** | **Partially sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **38** | **39** | **39** | **40** | **40** | **-** |
| **Mini. T (°C)** | **28** | **30** | **30** | **30** | **30** |
| **Cloud cover (okta)** | **1** | **4** | **2** | **1** | **2** | **Partially sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
* To see the possibility of drizzle/light rainfall at isolated places, farmers are advised to take precaution in agricultural operations.
 |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* /Summer Maize | Land preparation/Sowing | * Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
* Regular monitoring is advised for stem borer insect-pest in summer maize. Maintain proper soil moisture in the crop for healthy growth and development.
 |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant 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. 45****Date: Friday, 7 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 34.0°C and 24.6°C, respectively. Average relative humidity was 72 percent at 0700 hrs and 45 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.4°C at 0700 hrs and 38.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.1km/hr, 8.2 hours and 5.3mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(8-12 June, 2019)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8****June** | **9****June** | **10****June** | **11****June** | **12****June** | **Remarks** |
| **Rainfall(mm)** | **2** | **2** | **5** | **2** | **5** | **Mainly dry weather, Chances of drizzle/light rainfall at 1-2 places** |
| **Max. T (°C)** | **37** | **38** | **37** | **37** | **38** | **-** |
| **Mini. T (°C)** | **28** | **28** | **28** | **27** | **28** |
| **Cloud cover (okta)** | **4** | **4** | **3** | **2** | **3** | **Partially sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | * In view of mainly dry weather in forecast period, harvesting and threshing of *rabi* maize is advised. Picking of matured pods of mung bean and urd bean is also advised.
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 |
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| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc. Give irrigation in the vegetables in case of poor soil moisture. Regular monitoring is suggested against attack of insect-pest and diseases.  |
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| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**