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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. 42**  **Date: Tuesday, 28 May,2019** | **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 37.7°C and 24.5°C, respectively. Average relative humidity was 75 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 40.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.8km/hr, 8.8hours and 6.2mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **2** | **5** | **5** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(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. 42**  **Date: Tuesday, 28 May,2019** | **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 37.7°C and 24.5°C, respectively. Average relative humidity was 75 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 40.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.8km/hr, 8.8hours and 6.2mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **4** | **5** | **5** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(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. 42**  **Date: Tuesday, 28 May,2019** | **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 37.7°C and 24.5°C, respectively. Average relative humidity was 75 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 40.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.8km/hr, 8.8hours and 6.2mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **2** | **1** | **5** | **5** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(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. 42**  **Date: Tuesday, 28 May,2019** | **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 37.7°C and 24.5°C, respectively. Average relative humidity was 75 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 40.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.8km/hr, 8.8hours and 6.2mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **5** | **5** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(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. 42**  **Date: Tuesday, 28 May,2019** | **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 37.7°C and 24.5°C, respectively. Average relative humidity was 75 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 40.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.8km/hr, 8.8hours and 6.2mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **4** | **5** | **5** | **5** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(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. 42**  **Date: Tuesday, 28 May,2019** | **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 37.7°C and 24.5°C, respectively. Average relative humidity was 75 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 40.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.8km/hr, 8.8hours and 6.2mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **5** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(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. 42**  **Date: Tuesday, 28 May,2019** | **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 37.7°C and 24.5°C, respectively. Average relative humidity was 75 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 40.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.8km/hr, 8.8hours and 6.2mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **2** | **5** | **5** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(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. 42**  **Date: Tuesday, 28 May,2019** | **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 37.7°C and 24.5°C, respectively. Average relative humidity was 75 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 40.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.8km/hr, 8.8hours and 6.2mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **1** | **3** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(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. 42**  **Date: Tuesday, 28 May,2019** | **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 37.7°C and 24.5°C, respectively. Average relative humidity was 75 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 40.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.8km/hr, 8.8hours and 6.2mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **5** | **5** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(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. 42**  **Date: Tuesday, 28 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **1** | **3** | **5** | **5** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(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. 42**  **Date: Tuesday, 28 May,2019** | **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 37.7°C and 24.5°C, respectively. Average relative humidity was 75 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 40.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.8km/hr, 8.8hours and 6.2mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(Siwan)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **2** | **1** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(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. 42**  **Date: Tuesday, 28 May,2019** | **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 37.7°C and 24.5°C, respectively. Average relative humidity was 75 percent at 0700 hrs and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 40.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.8km/hr, 8.8hours and 6.2mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **5** | **5** | **Chances of light rainfall during 1-2 May** |
| **Max. T (°C)** | **41** | **40** | **38** | **37** | **36** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **1** | **1** | **3** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| *Rabi* Maize & green gram/black gram | Harvesting | In view of rainfall during 1-2 June, farmers are advised to take precaution in agricultural operations. Farmers are also advised to complete the harvesting, threshing of these crops before 31St May. |
| *Kharif* Paddy | Land preparation/  Nursery  sowing | 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* 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. |
| Spring Maize | Vegetative | Regular monitoring is advised for insect pest/diseases in spring maize crop. Maintain proper soil moisture in maize crop. |
| *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 tones 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. |
| Vegetables | Flowering/  Fruiting | Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised. Monitoring is also advised for infestation of fruit fly in cucurbitaceous crop. |
| 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. Provide clean water to the milch animals and keep them in the shaded place in day hour. |

**(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **May** | **30**  **May** | **31**  **May** | **1**  **June** | **2**  **June** | **Remarks** |
| **Rainfall(mm)** | **0** | **1** | **2** | **5** | **5** | **Chances of light rainfall during 1-2 May** |
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| **Max Relative Humidity (%)** | **70** | **70** | **65** | **65** | **65** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **40** | **40** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
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**(A. Sattar)**

**(Nodal Officer)**