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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. 36****Date: Tuesday, 7 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 39.6°C and 23.8°C, respectively. Average relative humidity was 70 percent at 0700 hrs and 49 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.5°C at 0700 hrs and 41.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.5km/hr, 8.9hours and 7.3mm, respectively. At the center, about 1.1 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
 |
| Wheat/Pigeon pea/Rabi maize | Harvesting | Farmers are advised to give top priority in the harvesting and threshing of wheat, pigeon pea and *rabi* maize. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger. Application of 25-30 tones of cow dung per hectare is advised during land preparation. Farmers are advised to start the sowing of turmeric and ginger from 15th May. Also advised to arrange the seed from authentic resources. *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric and *Maran* and *Nadia* varieties of ginger are recommended for sowing in North Bihar . |
| Paddy | Land preparation | Land preparation is advised for paddy nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings.  |
| Elephant foot yam | Sowing | Sowing of elephant foot yam is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar. Seed should be treated with *Trichoderma viridi* before sowing. Seed rate@ 80 quintals/hectare is advised. |
| Green gram/ Black gram | Flowering/Fruiting | * Monitoring is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. This disease is spread by white fly. If infestation is found, spraying of Imidacloprid17.8 S L@0.3ml/liter of water is suggested. Affected plants are to be uprooted and destroyed before spraying.
* Monitoring is advised against attack of hairy caterpillars in the late sown crop. The caterpillars which are profusely covered with long greyish hairs eat foliage, soft portion of stem and branches. In severe cases of infestation, the plants may be completely denuded of leaves. For management of insect-pest, spraying of Methyl parathion 50EC@2.0ml/liter or Chlorpyriphos 20 EC@2.5ml/liter of water is advised in clear days.
 |
| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
 |
| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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. 36****Date: Tuesday, 7 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 39.6°C and 23.8°C, respectively. Average relative humidity was 70 percent at 0700 hrs and 49 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.5°C at 0700 hrs and 41.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.5km/hr, 8.9hours and 7.3mm, respectively. At the center, about 1.1 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
 |
| Wheat/Pigeon pea/Rabi maize | Harvesting | Farmers are advised to give top priority in the harvesting and threshing of wheat, pigeon pea and *rabi* maize. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger. Application of 25-30 tones of cow dung per hectare is advised during land preparation. Farmers are advised to start the sowing of turmeric and ginger from 15th May. Also advised to arrange the seed from authentic resources. *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric and *Maran* and *Nadia* varieties of ginger are recommended for sowing in North Bihar . |
| Paddy | Land preparation | Land preparation is advised for paddy nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings.  |
| Elephant foot yam | Sowing | Sowing of elephant foot yam is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar. Seed should be treated with *Trichoderma viridi* before sowing. Seed rate@ 80 quintals/hectare is advised. |
| Green gram/ Black gram | Flowering/Fruiting | * Monitoring is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. This disease is spread by white fly. If infestation is found, spraying of Imidacloprid17.8 S L@0.3ml/liter of water is suggested. Affected plants are to be uprooted and destroyed before spraying.
* Monitoring is advised against attack of hairy caterpillars in the late sown crop. The caterpillars which are profusely covered with long greyish hairs eat foliage, soft portion of stem and branches. In severe cases of infestation, the plants may be completely denuded of leaves. For management of insect-pest, spraying of Methyl parathion 50EC@2.0ml/liter or Chlorpyriphos 20 EC@2.5ml/liter of water is advised in clear days.
 |
| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
 |
| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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. 36****Date: Tuesday, 7 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 39.6°C and 23.8°C, respectively. Average relative humidity was 70 percent at 0700 hrs and 49 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.5°C at 0700 hrs and 41.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.5km/hr, 8.9hours and 7.3mm, respectively. At the center, about 1.1 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
 |
| Wheat/Pigeon pea/Rabi maize | Harvesting | Farmers are advised to give top priority in the harvesting and threshing of wheat, pigeon pea and *rabi* maize. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger. Application of 25-30 tones of cow dung per hectare is advised during land preparation. Farmers are advised to start the sowing of turmeric and ginger from 15th May. Also advised to arrange the seed from authentic resources. *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric and *Maran* and *Nadia* varieties of ginger are recommended for sowing in North Bihar . |
| Paddy | Land preparation | Land preparation is advised for paddy nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings.  |
| Elephant foot yam | Sowing | Sowing of elephant foot yam is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar. Seed should be treated with *Trichoderma viridi* before sowing. Seed rate@ 80 quintals/hectare is advised. |
| Green gram/ Black gram | Flowering/Fruiting | * Monitoring is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. This disease is spread by white fly. If infestation is found, spraying of Imidacloprid17.8 S L@0.3ml/liter of water is suggested. Affected plants are to be uprooted and destroyed before spraying.
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 |
| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
 |
| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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. 36****Date: Tuesday, 7 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

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

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
 |
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| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger. Application of 25-30 tones of cow dung per hectare is advised during land preparation. Farmers are advised to start the sowing of turmeric and ginger from 15th May. Also advised to arrange the seed from authentic resources. *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric and *Maran* and *Nadia* varieties of ginger are recommended for sowing in North Bihar . |
| Paddy | Land preparation | Land preparation is advised for paddy nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings.  |
| Elephant foot yam | Sowing | Sowing of elephant foot yam is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar. Seed should be treated with *Trichoderma viridi* before sowing. Seed rate@ 80 quintals/hectare is advised. |
| Green gram/ Black gram | Flowering/Fruiting | * Monitoring is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. This disease is spread by white fly. If infestation is found, spraying of Imidacloprid17.8 S L@0.3ml/liter of water is suggested. Affected plants are to be uprooted and destroyed before spraying.
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 |
| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
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| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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. 36****Date: Tuesday, 7 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

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

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
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| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
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| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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** |
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**Medium Range Weather Forecast**

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

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
 |
| Wheat/Pigeon pea/Rabi maize | Harvesting | Farmers are advised to give top priority in the harvesting and threshing of wheat, pigeon pea and *rabi* maize. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger. Application of 25-30 tones of cow dung per hectare is advised during land preparation. Farmers are advised to start the sowing of turmeric and ginger from 15th May. Also advised to arrange the seed from authentic resources. *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric and *Maran* and *Nadia* varieties of ginger are recommended for sowing in North Bihar . |
| Paddy | Land preparation | Land preparation is advised for paddy nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings.  |
| Elephant foot yam | Sowing | Sowing of elephant foot yam is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar. Seed should be treated with *Trichoderma viridi* before sowing. Seed rate@ 80 quintals/hectare is advised. |
| Green gram/ Black gram | Flowering/Fruiting | * Monitoring is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. This disease is spread by white fly. If infestation is found, spraying of Imidacloprid17.8 S L@0.3ml/liter of water is suggested. Affected plants are to be uprooted and destroyed before spraying.
* Monitoring is advised against attack of hairy caterpillars in the late sown crop. The caterpillars which are profusely covered with long greyish hairs eat foliage, soft portion of stem and branches. In severe cases of infestation, the plants may be completely denuded of leaves. For management of insect-pest, spraying of Methyl parathion 50EC@2.0ml/liter or Chlorpyriphos 20 EC@2.5ml/liter of water is advised in clear days.
 |
| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
 |
| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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. 36****Date: Tuesday, 7 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 39.6°C and 23.8°C, respectively. Average relative humidity was 70 percent at 0700 hrs and 49 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.5°C at 0700 hrs and 41.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.5km/hr, 8.9hours and 7.3mm, respectively. At the center, about 1.1 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
 |
| Wheat/Pigeon pea/Rabi maize | Harvesting | Farmers are advised to give top priority in the harvesting and threshing of wheat, pigeon pea and *rabi* maize. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger. Application of 25-30 tones of cow dung per hectare is advised during land preparation. Farmers are advised to start the sowing of turmeric and ginger from 15th May. Also advised to arrange the seed from authentic resources. *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric and *Maran* and *Nadia* varieties of ginger are recommended for sowing in North Bihar . |
| Paddy | Land preparation | Land preparation is advised for paddy nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings.  |
| Elephant foot yam | Sowing | Sowing of elephant foot yam is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar. Seed should be treated with *Trichoderma viridi* before sowing. Seed rate@ 80 quintals/hectare is advised. |
| Green gram/ Black gram | Flowering/Fruiting | * Monitoring is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. This disease is spread by white fly. If infestation is found, spraying of Imidacloprid17.8 S L@0.3ml/liter of water is suggested. Affected plants are to be uprooted and destroyed before spraying.
* Monitoring is advised against attack of hairy caterpillars in the late sown crop. The caterpillars which are profusely covered with long greyish hairs eat foliage, soft portion of stem and branches. In severe cases of infestation, the plants may be completely denuded of leaves. For management of insect-pest, spraying of Methyl parathion 50EC@2.0ml/liter or Chlorpyriphos 20 EC@2.5ml/liter of water is advised in clear days.
 |
| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
 |
| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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. 36****Date: Tuesday, 7 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 39.6°C and 23.8°C, respectively. Average relative humidity was 70 percent at 0700 hrs and 49 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.5°C at 0700 hrs and 41.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.5km/hr, 8.9hours and 7.3mm, respectively. At the center, about 1.1 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
 |
| Wheat/Pigeon pea/Rabi maize | Harvesting | Farmers are advised to give top priority in the harvesting and threshing of wheat, pigeon pea and *rabi* maize. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger. Application of 25-30 tones of cow dung per hectare is advised during land preparation. Farmers are advised to start the sowing of turmeric and ginger from 15th May. Also advised to arrange the seed from authentic resources. *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric and *Maran* and *Nadia* varieties of ginger are recommended for sowing in North Bihar . |
| Paddy | Land preparation | Land preparation is advised for paddy nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings.  |
| Elephant foot yam | Sowing | Sowing of elephant foot yam is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar. Seed should be treated with *Trichoderma viridi* before sowing. Seed rate@ 80 quintals/hectare is advised. |
| Green gram/ Black gram | Flowering/Fruiting | * Monitoring is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. This disease is spread by white fly. If infestation is found, spraying of Imidacloprid17.8 S L@0.3ml/liter of water is suggested. Affected plants are to be uprooted and destroyed before spraying.
* Monitoring is advised against attack of hairy caterpillars in the late sown crop. The caterpillars which are profusely covered with long greyish hairs eat foliage, soft portion of stem and branches. In severe cases of infestation, the plants may be completely denuded of leaves. For management of insect-pest, spraying of Methyl parathion 50EC@2.0ml/liter or Chlorpyriphos 20 EC@2.5ml/liter of water is advised in clear days.
 |
| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
 |
| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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. 36****Date: Tuesday, 7 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 39.6°C and 23.8°C, respectively. Average relative humidity was 70 percent at 0700 hrs and 49 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.5°C at 0700 hrs and 41.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.5km/hr, 8.9hours and 7.3mm, respectively. At the center, about 1.1 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
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| Wheat/Pigeon pea/Rabi maize | Harvesting | Farmers are advised to give top priority in the harvesting and threshing of wheat, pigeon pea and *rabi* maize. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger. Application of 25-30 tones of cow dung per hectare is advised during land preparation. Farmers are advised to start the sowing of turmeric and ginger from 15th May. Also advised to arrange the seed from authentic resources. *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric and *Maran* and *Nadia* varieties of ginger are recommended for sowing in North Bihar . |
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| Elephant foot yam | Sowing | Sowing of elephant foot yam is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar. Seed should be treated with *Trichoderma viridi* before sowing. Seed rate@ 80 quintals/hectare is advised. |
| Green gram/ Black gram | Flowering/Fruiting | * Monitoring is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. This disease is spread by white fly. If infestation is found, spraying of Imidacloprid17.8 S L@0.3ml/liter of water is suggested. Affected plants are to be uprooted and destroyed before spraying.
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 |
| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
 |
| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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. 36****Date: Tuesday, 7 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

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

 **(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
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 |
| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
 |
| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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. 36****Date: Tuesday, 7 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

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

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
 |
| Wheat/Pigeon pea/Rabi maize | Harvesting | Farmers are advised to give top priority in the harvesting and threshing of wheat, pigeon pea and *rabi* maize. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger. Application of 25-30 tones of cow dung per hectare is advised during land preparation. Farmers are advised to start the sowing of turmeric and ginger from 15th May. Also advised to arrange the seed from authentic resources. *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric and *Maran* and *Nadia* varieties of ginger are recommended for sowing in North Bihar . |
| Paddy | Land preparation | Land preparation is advised for paddy nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings.  |
| Elephant foot yam | Sowing | Sowing of elephant foot yam is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar. Seed should be treated with *Trichoderma viridi* before sowing. Seed rate@ 80 quintals/hectare is advised. |
| Green gram/ Black gram | Flowering/Fruiting | * Monitoring is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. This disease is spread by white fly. If infestation is found, spraying of Imidacloprid17.8 S L@0.3ml/liter of water is suggested. Affected plants are to be uprooted and destroyed before spraying.
* Monitoring is advised against attack of hairy caterpillars in the late sown crop. The caterpillars which are profusely covered with long greyish hairs eat foliage, soft portion of stem and branches. In severe cases of infestation, the plants may be completely denuded of leaves. For management of insect-pest, spraying of Methyl parathion 50EC@2.0ml/liter or Chlorpyriphos 20 EC@2.5ml/liter of water is advised in clear days.
 |
| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
 |
| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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. 36****Date: Tuesday, 7 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 39.6°C and 23.8°C, respectively. Average relative humidity was 70 percent at 0700 hrs and 49 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.5°C at 0700 hrs and 41.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.5km/hr, 8.9hours and 7.3mm, respectively. At the center, about 1.1 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| * In view of dry and hot weather, farmers are advised to do deep ploughing of their fallow lands to reduce the abundance of eggs, larva, pupa of insect pests, diseases and weeds.
* In view of dry weather condition and westernly wind blowing during forecast period, farmers are advised to give irrigation in late sown *rabi* maize, summer maize, sugarcane, sunflower, fodder crop and vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, onion in the evening hour. Also advised to maintain proper soil moisture in the litchi and mango orchard.
 |
| Wheat/Pigeon pea/Rabi maize | Harvesting | Farmers are advised to give top priority in the harvesting and threshing of wheat, pigeon pea and *rabi* maize. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger. Application of 25-30 tones of cow dung per hectare is advised during land preparation. Farmers are advised to start the sowing of turmeric and ginger from 15th May. Also advised to arrange the seed from authentic resources. *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric and *Maran* and *Nadia* varieties of ginger are recommended for sowing in North Bihar . |
| Paddy | Land preparation | Land preparation is advised for paddy nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings.  |
| Elephant foot yam | Sowing | Sowing of elephant foot yam is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar. Seed should be treated with *Trichoderma viridi* before sowing. Seed rate@ 80 quintals/hectare is advised. |
| Green gram/ Black gram | Flowering/Fruiting | * Monitoring is advised for yellow vein mosaic virus (YMV) disease in green gram and black gram. This disease is spread by white fly. If infestation is found, spraying of Imidacloprid17.8 S L@0.3ml/liter of water is suggested. Affected plants are to be uprooted and destroyed before spraying.
* Monitoring is advised against attack of hairy caterpillars in the late sown crop. The caterpillars which are profusely covered with long greyish hairs eat foliage, soft portion of stem and branches. In severe cases of infestation, the plants may be completely denuded of leaves. For management of insect-pest, spraying of Methyl parathion 50EC@2.0ml/liter or Chlorpyriphos 20 EC@2.5ml/liter of water is advised in clear days.
 |
| Lady’s fingerand Cucurbitaceous crop | Flowering/Fruiting | * Monitoring is advised for infestation of fruit fly in cucurbitaceous crop. If infestation of is found, spraying of Dimethoate 30 EC @ 2 ml+10 gram sugar /liter of water is advised. Intercultural operation is also advised in summer vegetables.
 |
| Onion | Bulb formation | Dry and hot weather is favorable for outbreak of onion thrips. If insect population is found above ETL, spraying of Profenofos @1ml/L or Imidacloprid@1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.  |
| Livestock | **-** |  In view of increasing temperature, give clean water to the milch animals and keep them in the shaded place in day hours. |

**(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. 36****Date: Tuesday, 7 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

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**Medium Range Weather Forecast**

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

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **8** **May** | **9****May** | **10** **May** | **11****May** | **12****May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry weather** |
| **Max. T (°C)** | **40** | **41** | **41** | **40** | **40** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **70** | **70** | **65** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **40** | **40** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

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

**(Nodal Officer)**