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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. 35**  **Date: Friday, 3 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 38.3°C and 24.6°C, respectively. Average relative humidity was 74 percent at 0700 hrs and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 41.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.0km/hr, 9.8hours and 6.6mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(Begusarai)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **10** | **0** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Easterly/Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
| Lady’s finger  and Cucurbitaceous crop | Flowering/  Fruiting | * Monitoring is advised for infestation of mites in lady’s finger. 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 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 advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd. |
| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(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. 35**  **Date: Friday, 3 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 38.3°C and 24.6°C, respectively. Average relative humidity was 74 percent at 0700 hrs and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 41.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.0km/hr, 9.8hours and 6.6mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **10** | **2** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
| Lady’s finger  and Cucurbitaceous crop | Flowering/  Fruiting | * Monitoring is advised for infestation of mites in lady’s finger. 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 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 advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd. |
| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(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. 35**  **Date: Friday, 3 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 38.3°C and 24.6°C, respectively. Average relative humidity was 74 percent at 0700 hrs and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 41.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.0km/hr, 9.8hours and 6.6mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **5** | **2** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
| Lady’s finger  and Cucurbitaceous crop | Flowering/  Fruiting | * Monitoring is advised for infestation of mites in lady’s finger. 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 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 advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd. |
| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(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. 35**  **Date: Friday, 3 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 38.3°C and 24.6°C, respectively. Average relative humidity was 74 percent at 0700 hrs and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 41.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.0km/hr, 9.8hours and 6.6mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **5** | **0** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Easterly/Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
| Lady’s finger  and Cucurbitaceous crop | Flowering/  Fruiting | * Monitoring is advised for infestation of mites in lady’s finger. 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 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 advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd. |
| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(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. 35**  **Date: Friday, 3 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **15** | **5** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
| Lady’s finger  and Cucurbitaceous crop | Flowering/  Fruiting | * Monitoring is advised for infestation of mites in lady’s finger. 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 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 advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd. |
| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(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. 35**  **Date: Friday, 3 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 38.3°C and 24.6°C, respectively. Average relative humidity was 74 percent at 0700 hrs and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 41.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.0km/hr, 9.8hours and 6.6mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **10** | **0** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **7** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
| Lady’s finger  and Cucurbitaceous crop | Flowering/  Fruiting | * Monitoring is advised for infestation of mites in lady’s finger. 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 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 advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd. |
| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(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. 35**  **Date: Friday, 3 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 38.3°C and 24.6°C, respectively. Average relative humidity was 74 percent at 0700 hrs and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 41.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.0km/hr, 9.8hours and 6.6mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **15** | **0** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Easterly/Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
| Lady’s finger  and Cucurbitaceous crop | Flowering/  Fruiting | * Monitoring is advised for infestation of mites in lady’s finger. 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 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 advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd. |
| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(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. 35**  **Date: Friday, 3 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 38.3°C and 24.6°C, respectively. Average relative humidity was 74 percent at 0700 hrs and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 41.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.0km/hr, 9.8hours and 6.6mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **2** | **0** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Easterly/Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
| Lady’s finger  and Cucurbitaceous crop | Flowering/  Fruiting | * Monitoring is advised for infestation of mites in lady’s finger. 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 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 advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd. |
| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(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. 35**  **Date: Friday, 3 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 38.3°C and 24.6°C, respectively. Average relative humidity was 74 percent at 0700 hrs and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 41.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.0km/hr, 9.8hours and 6.6mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **2** | **0** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
| Lady’s finger  and Cucurbitaceous crop | Flowering/  Fruiting | * Monitoring is advised for infestation of mites in lady’s finger. 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 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 advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd. |
| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(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. 35**  **Date: Friday, 3 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **5** | **0** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
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| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(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. 35**  **Date: Friday, 3 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 38.3°C and 24.6°C, respectively. Average relative humidity was 74 percent at 0700 hrs and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 41.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.0km/hr, 9.8hours and 6.6mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(Siwan)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Easterly/Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
| Lady’s finger  and Cucurbitaceous crop | Flowering/  Fruiting | * Monitoring is advised for infestation of mites in lady’s finger. 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 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 advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd. |
| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(A. Sattar)**

**(Nodal Officer)**

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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.3°C and 24.6°C, respectively. Average relative humidity was 74 percent at 0700 hrs and 51 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.0°C at 0700 hrs and 41.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.0km/hr, 9.8hours and 6.6mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **10** | **0** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Easterly/Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
| Turmeric/Ginger | Land preparation | Land preparation is advised for turmeric and ginger crop. Application of 25-30 tons of cow dung per hectare is advised during land preparation. |
| 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 | Land  Preparation/  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 | Vegetative/  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 50[EC@2.0ml/liter](mailto:EC@2.0ml/liter) or Chlorpyriphos 20 [EC@2.5ml/liter](mailto:EC@2.5ml/liter) of water is advised in clear days. |
| Lady’s finger  and Cucurbitaceous crop | Flowering/  Fruiting | * Monitoring is advised for infestation of mites in lady’s finger. 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 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 advised in summer vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd. |
| Spring maize | Vegetative | Monitoring is advised for infestation of maize stem borer. The young caterpillars feed on the epidermal layer of leaf sheath and remain there in the early stages of growth. Later they bore in to central shoots resulting in the drying up of the growing point and formation of dead heart in young maize plants. For management, spraying of Chlorpyriphos 20 EC @20.5 ml/liter of water is advised. |
| Livestock | **-** | Provide clean water to the milch animals and keep them in the shaded place in day hours. |
| 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. | | |

**(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(4-8 May, 2019)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4**  **May** | **5**  **May** | **6**  **May** | **7**  **May** | **8**  **May** | **Remarks** |
| **Rainfall(mm)** | **5** | **2** | **0** | **0** | **0** | **Light rainfall during 4-5 May** |
| **Max. T (°C)** | **37** | **36** | **34** | **34** | **35** | **-** |
| **Mini. T (°C)** | **23** | **22** | **21** | **22** | **22** |
| **Cloud cover (okta)** | **8** | **2** | **1** | **0** | **0** | **Cloudy sky during 4-5 May** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall during 4-5 May, farmers are advised to postpone irrigation in standing crop. Also postpone spraying of pesticides in the crop during this period. | | |
| Wheat | Harvesting | Farmers are advised to postpone harvesting and threshing of wheat crop. Keep the harvested produce in the secure place to prevent it from damage. |
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**(A. Sattar)**

**(Nodal Officer)**