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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. 57**  **Date: Friday, 10th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 33.3°C and 26.8°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 72 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.4°C at 0700 hrs. and 32.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.6 km/hr, 8.5 hours and 4.9 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(11th -15th August, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **15** | **10** | **10** | **Light to medium** |
| **Max. T (°C)** | **35** | **35** | **34** | **35** | **35** | **Maximum temperature will remain between 34-35°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **28** | **27** | **27** | **27** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
| Pigeon Pea/ September pigeon pea | Land preparation | Complete the sowing of *kharif* pigeon pea at the earliest. Intercultural operation is advised in 25-30 days old pigeon pea crop. Land preparation is advised for sowing of September pigeon pea. |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended. For good flowering, planting of 5% male plants is advised. |
| Cauliflower | Nursery sowing/  Transplanting | * Farmers who have not done nursery sowing of mid duration varieties of cauliflower are advised to complete it soon. For this, *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* varieties are to be sown in raised seedbed. Seed rate @350-400 gram /hectare is advised. * Complete the transplanting of early varieties of cauliflower such as *Kuwari, Patna early, Pusa katki, Pusa deepali and Hajipur agaat.* Application of 10-15 kg Borax and 1.0 kg ammonium molibdate per hectare is advised in boron/molybdenum deficient land. * Regular monitoring of leaf eating caterpillar (*diamondback moth)* is advised in early sown cauliflower*.* If infestation is observed in the field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition. |
| Chilli/*Kharif* Onion | Transplanting | Transplanting of chilli/*kharif* onion seedlings are advised in raised bed. Planting of Chilli is advised at a distance of 50x45 cm, whereas onion seedlings at a spacing of 15 x 10 cm. |
| Vegetables | - | Intercultural operation is advised in standing vegetables crop. Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetables nursery. These pests cause viral infections in the nursery crop. Spraying of Imidaclorprid @ 0.3ml/liter of water is suggested to protect the crop against these insect pests. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borers in brinjal. If infestation occurs, spraying of Spinosad 48 EC @1ml/4 liters of water is advised. Collection of infested fruits and shoots, and burying of these infested parts are advised before spraying. |
| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(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. 57**  **Date: Friday, 10th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 33.3°C and 26.8°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 72 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.4°C at 0700 hrs. and 32.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.6 km/hr, 8.5 hours and 4.9 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(11th -15th August, 2018)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **15** | **20** | **20** | **20** | **20** | **Light to medium** |
| **Max. T (°C)** | **34** | **34** | **34** | **35** | **34** | **Maximum temperature will remain between 34-35°C and the minimum between 26-27°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
| Pigeon Pea/ September pigeon pea | Land preparation | Complete the sowing of *kharif* pigeon pea at the earliest. Intercultural operation is advised in 25-30 days old pigeon pea crop. Land preparation is advised for sowing of September pigeon pea. |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended. For good flowering, planting of 5% male plants is advised. |
| Cauliflower | Nursery sowing/  Transplanting | * Farmers who have not done nursery sowing of mid duration varieties of cauliflower are advised to complete it soon. For this, *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* varieties are to be sown in raised seedbed. Seed rate @350-400 gram /hectare is advised. * Complete the transplanting of early varieties of cauliflower such as *Kuwari, Patna early, Pusa katki, Pusa deepali and Hajipur agaat.* Application of 10-15 kg Borax and 1.0 kg ammonium molibdate per hectare is advised in boron/molybdenum deficient land. * Regular monitoring of leaf eating caterpillar (*diamondback moth)* is advised in early sown cauliflower*.* If infestation is observed in the field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition. |
| Chilli/*Kharif* Onion | Transplanting | Transplanting of chilli/*kharif* onion seedlings are advised in raised bed. Planting of Chilli is advised at a distance of 50x45 cm, whereas onion seedlings at a spacing of 15 x 10 cm. |
| Vegetables | - | Intercultural operation is advised in standing vegetables crop. Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetables nursery. These pests cause viral infections in the nursery crop. Spraying of Imidaclorprid @ 0.3ml/liter of water is suggested to protect the crop against these insect pests. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borers in brinjal. If infestation occurs, spraying of Spinosad 48 EC @1ml/4 liters of water is advised. Collection of infested fruits and shoots, and burying of these infested parts are advised before spraying. |
| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(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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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 33.3°C and 26.8°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 72 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.4°C at 0700 hrs. and 32.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.6 km/hr, 8.5 hours and 4.9 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(11th -15th August, 2018)**

**(East Champaran)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **10** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **35** | **34** | **34** | **35** | **34** | **Maximum temperature will remain between 34-35°C and the minimum between 26-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
| Pigeon Pea/ September pigeon pea | Land preparation | Complete the sowing of *kharif* pigeon pea at the earliest. Intercultural operation is advised in 25-30 days old pigeon pea crop. Land preparation is advised for sowing of September pigeon pea. |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended. For good flowering, planting of 5% male plants is advised. |
| Cauliflower | Nursery sowing/  Transplanting | * Farmers who have not done nursery sowing of mid duration varieties of cauliflower are advised to complete it soon. For this, *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* varieties are to be sown in raised seedbed. Seed rate @350-400 gram /hectare is advised. * Complete the transplanting of early varieties of cauliflower such as *Kuwari, Patna early, Pusa katki, Pusa deepali and Hajipur agaat.* Application of 10-15 kg Borax and 1.0 kg ammonium molibdate per hectare is advised in boron/molybdenum deficient land. * Regular monitoring of leaf eating caterpillar (*diamondback moth)* is advised in early sown cauliflower*.* If infestation is observed in the field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition. |
| Chilli/*Kharif* Onion | Transplanting | Transplanting of chilli/*kharif* onion seedlings are advised in raised bed. Planting of Chilli is advised at a distance of 50x45 cm, whereas onion seedlings at a spacing of 15 x 10 cm. |
| Vegetables | - | Intercultural operation is advised in standing vegetables crop. Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetables nursery. These pests cause viral infections in the nursery crop. Spraying of Imidaclorprid @ 0.3ml/liter of water is suggested to protect the crop against these insect pests. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borers in brinjal. If infestation occurs, spraying of Spinosad 48 EC @1ml/4 liters of water is advised. Collection of infested fruits and shoots, and burying of these infested parts are advised before spraying. |
| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(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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**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(11th -15th August, 2018)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **10** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **35** | **34** | **34** | **35** | **34** | **Maximum temperature will remain between 34-35°C and the minimum between 26-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
| Pigeon Pea/ September pigeon pea | Land preparation | Complete the sowing of *kharif* pigeon pea at the earliest. Intercultural operation is advised in 25-30 days old pigeon pea crop. Land preparation is advised for sowing of September pigeon pea. |
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| Cauliflower | Nursery sowing/  Transplanting | * Farmers who have not done nursery sowing of mid duration varieties of cauliflower are advised to complete it soon. For this, *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* varieties are to be sown in raised seedbed. Seed rate @350-400 gram /hectare is advised. * Complete the transplanting of early varieties of cauliflower such as *Kuwari, Patna early, Pusa katki, Pusa deepali and Hajipur agaat.* Application of 10-15 kg Borax and 1.0 kg ammonium molibdate per hectare is advised in boron/molybdenum deficient land. * Regular monitoring of leaf eating caterpillar (*diamondback moth)* is advised in early sown cauliflower*.* If infestation is observed in the field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition. |
| Chilli/*Kharif* Onion | Transplanting | Transplanting of chilli/*kharif* onion seedlings are advised in raised bed. Planting of Chilli is advised at a distance of 50x45 cm, whereas onion seedlings at a spacing of 15 x 10 cm. |
| Vegetables | - | Intercultural operation is advised in standing vegetables crop. Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetables nursery. These pests cause viral infections in the nursery crop. Spraying of Imidaclorprid @ 0.3ml/liter of water is suggested to protect the crop against these insect pests. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borers in brinjal. If infestation occurs, spraying of Spinosad 48 EC @1ml/4 liters of water is advised. Collection of infested fruits and shoots, and burying of these infested parts are advised before spraying. |
| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(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**

**(11th -15th August, 2018)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **15** | **20** | **20** | **20** | **20** | **Light to medium** |
| **Max. T (°C)** | **35** | **34** | **34** | **35** | **34** | **Maximum temperature will remain between 34-35°C and the minimum between 26-27°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
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| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(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. 57**  **Date: Friday, 10th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 33.3°C and 26.8°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 72 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.4°C at 0700 hrs. and 32.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.6 km/hr, 8.5 hours and 4.9 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(11th -15th August, 2018)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **10** | **10** | **10** | **Light to medium** |
| **Max. T (°C)** | **34** | **34** | **34** | **35** | **34** | **Maximum temperature will remain between 34-35°C and the minimum between 26-28°C.** |
| **Mini. T (°C)** | **27** | **28** | **27** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
| Pigeon Pea/ September pigeon pea | Land preparation | Complete the sowing of *kharif* pigeon pea at the earliest. Intercultural operation is advised in 25-30 days old pigeon pea crop. Land preparation is advised for sowing of September pigeon pea. |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended. For good flowering, planting of 5% male plants is advised. |
| Cauliflower | Nursery sowing/  Transplanting | * Farmers who have not done nursery sowing of mid duration varieties of cauliflower are advised to complete it soon. For this, *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* varieties are to be sown in raised seedbed. Seed rate @350-400 gram /hectare is advised. * Complete the transplanting of early varieties of cauliflower such as *Kuwari, Patna early, Pusa katki, Pusa deepali and Hajipur agaat.* Application of 10-15 kg Borax and 1.0 kg ammonium molibdate per hectare is advised in boron/molybdenum deficient land. * Regular monitoring of leaf eating caterpillar (*diamondback moth)* is advised in early sown cauliflower*.* If infestation is observed in the field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition. |
| Chilli/*Kharif* Onion | Transplanting | Transplanting of chilli/*kharif* onion seedlings are advised in raised bed. Planting of Chilli is advised at a distance of 50x45 cm, whereas onion seedlings at a spacing of 15 x 10 cm. |
| Vegetables | - | Intercultural operation is advised in standing vegetables crop. Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetables nursery. These pests cause viral infections in the nursery crop. Spraying of Imidaclorprid @ 0.3ml/liter of water is suggested to protect the crop against these insect pests. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borers in brinjal. If infestation occurs, spraying of Spinosad 48 EC @1ml/4 liters of water is advised. Collection of infested fruits and shoots, and burying of these infested parts are advised before spraying. |
| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(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. 57**  **Date: Friday, 10th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 33.3°C and 26.8°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 72 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.4°C at 0700 hrs. and 32.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.6 km/hr, 8.5 hours and 4.9 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(11th -15th August, 2018)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **15** | **20** | **20** | **20** | **20** | **Light to medium** |
| **Max. T (°C)** | **34** | **34** | **34** | **35** | **34** | **Maximum temperature will remain between 34-35°C and the minimum between 26-27°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
| Pigeon Pea/ September pigeon pea | Land preparation | Complete the sowing of *kharif* pigeon pea at the earliest. Intercultural operation is advised in 25-30 days old pigeon pea crop. Land preparation is advised for sowing of September pigeon pea. |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended. For good flowering, planting of 5% male plants is advised. |
| Cauliflower | Nursery sowing/  Transplanting | * Farmers who have not done nursery sowing of mid duration varieties of cauliflower are advised to complete it soon. For this, *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* varieties are to be sown in raised seedbed. Seed rate @350-400 gram /hectare is advised. * Complete the transplanting of early varieties of cauliflower such as *Kuwari, Patna early, Pusa katki, Pusa deepali and Hajipur agaat.* Application of 10-15 kg Borax and 1.0 kg ammonium molibdate per hectare is advised in boron/molybdenum deficient land. * Regular monitoring of leaf eating caterpillar (*diamondback moth)* is advised in early sown cauliflower*.* If infestation is observed in the field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition. |
| Chilli/*Kharif* Onion | Transplanting | Transplanting of chilli/*kharif* onion seedlings are advised in raised bed. Planting of Chilli is advised at a distance of 50x45 cm, whereas onion seedlings at a spacing of 15 x 10 cm. |
| Vegetables | - | Intercultural operation is advised in standing vegetables crop. Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetables nursery. These pests cause viral infections in the nursery crop. Spraying of Imidaclorprid @ 0.3ml/liter of water is suggested to protect the crop against these insect pests. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borers in brinjal. If infestation occurs, spraying of Spinosad 48 EC @1ml/4 liters of water is advised. Collection of infested fruits and shoots, and burying of these infested parts are advised before spraying. |
| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(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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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 33.3°C and 26.8°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 72 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.4°C at 0700 hrs. and 32.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.6 km/hr, 8.5 hours and 4.9 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(11th -15th August, 2018)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **10** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **34** | **34** | **35** | **35** | **34** | **Maximum temperature will remain between 34-35°C and the minimum between 26-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
| Pigeon Pea/ September pigeon pea | Land preparation | Complete the sowing of *kharif* pigeon pea at the earliest. Intercultural operation is advised in 25-30 days old pigeon pea crop. Land preparation is advised for sowing of September pigeon pea. |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended. For good flowering, planting of 5% male plants is advised. |
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| Vegetables | - | Intercultural operation is advised in standing vegetables crop. Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetables nursery. These pests cause viral infections in the nursery crop. Spraying of Imidaclorprid @ 0.3ml/liter of water is suggested to protect the crop against these insect pests. |
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| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(11th -15th August, 2018)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **10** | **10** | **10** | **Light to medium** |
| **Max. T (°C)** | **35** | **34** | **34** | **35** | **34** | **Maximum temperature will remain between 34-35°C and the minimum between 26-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
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| Vegetables | - | Intercultural operation is advised in standing vegetables crop. Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetables nursery. These pests cause viral infections in the nursery crop. Spraying of Imidaclorprid @ 0.3ml/liter of water is suggested to protect the crop against these insect pests. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borers in brinjal. If infestation occurs, spraying of Spinosad 48 EC @1ml/4 liters of water is advised. Collection of infested fruits and shoots, and burying of these infested parts are advised before spraying. |
| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(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**

**(11th -15th August, 2018)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **20** | **10** | **10** | **Light to medium** |
| **Max. T (°C)** | **35** | **35** | **34** | **34** | **35** | **Maximum temperature will remain between 34-35°C and the minimum between 26-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **27** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
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| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(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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According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 33.3°C and 26.8°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 72 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.4°C at 0700 hrs. and 32.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.6 km/hr, 8.5 hours and 4.9 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(11th -15th August, 2018)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **10** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **34** | **34** | **35** | **35** | **34** | **Maximum temperature will remain between 34-35°C and the minimum between 26-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
| Pigeon Pea/ September pigeon pea | Land preparation | Complete the sowing of *kharif* pigeon pea at the earliest. Intercultural operation is advised in 25-30 days old pigeon pea crop. Land preparation is advised for sowing of September pigeon pea. |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended. For good flowering, planting of 5% male plants is advised. |
| Cauliflower | Nursery sowing/  Transplanting | * Farmers who have not done nursery sowing of mid duration varieties of cauliflower are advised to complete it soon. For this, *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* varieties are to be sown in raised seedbed. Seed rate @350-400 gram /hectare is advised. * Complete the transplanting of early varieties of cauliflower such as *Kuwari, Patna early, Pusa katki, Pusa deepali and Hajipur agaat.* Application of 10-15 kg Borax and 1.0 kg ammonium molibdate per hectare is advised in boron/molybdenum deficient land. * Regular monitoring of leaf eating caterpillar (*diamondback moth)* is advised in early sown cauliflower*.* If infestation is observed in the field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition. |
| Chilli/*Kharif* Onion | Transplanting | Transplanting of chilli/*kharif* onion seedlings are advised in raised bed. Planting of Chilli is advised at a distance of 50x45 cm, whereas onion seedlings at a spacing of 15 x 10 cm. |
| Vegetables | - | Intercultural operation is advised in standing vegetables crop. Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetables nursery. These pests cause viral infections in the nursery crop. Spraying of Imidaclorprid @ 0.3ml/liter of water is suggested to protect the crop against these insect pests. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borers in brinjal. If infestation occurs, spraying of Spinosad 48 EC @1ml/4 liters of water is advised. Collection of infested fruits and shoots, and burying of these infested parts are advised before spraying. |
| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(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. 57**  **Date: Friday, 10th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 33.3°C and 26.8°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 72 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.4°C at 0700 hrs. and 32.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.6 km/hr, 8.5 hours and 4.9 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(11th -15th August, 2018)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **20** | **20** | **15** | **Light to medium** |
| **Max. T (°C)** | **35** | **35** | **34** | **34** | **35** | **Maximum temperature will remain between 34-35°C and the minimum between 26-27°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **26** | **27** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
| Pigeon Pea/ September pigeon pea | Land preparation | Complete the sowing of *kharif* pigeon pea at the earliest. Intercultural operation is advised in 25-30 days old pigeon pea crop. Land preparation is advised for sowing of September pigeon pea. |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended. For good flowering, planting of 5% male plants is advised. |
| Cauliflower | Nursery sowing/  Transplanting | * Farmers who have not done nursery sowing of mid duration varieties of cauliflower are advised to complete it soon. For this, *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* varieties are to be sown in raised seedbed. Seed rate @350-400 gram /hectare is advised. * Complete the transplanting of early varieties of cauliflower such as *Kuwari, Patna early, Pusa katki, Pusa deepali and Hajipur agaat.* Application of 10-15 kg Borax and 1.0 kg ammonium molibdate per hectare is advised in boron/molybdenum deficient land. * Regular monitoring of leaf eating caterpillar (*diamondback moth)* is advised in early sown cauliflower*.* If infestation is observed in the field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition. |
| Chilli/*Kharif* Onion | Transplanting | Transplanting of chilli/*kharif* onion seedlings are advised in raised bed. Planting of Chilli is advised at a distance of 50x45 cm, whereas onion seedlings at a spacing of 15 x 10 cm. |
| Vegetables | - | Intercultural operation is advised in standing vegetables crop. Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetables nursery. These pests cause viral infections in the nursery crop. Spraying of Imidaclorprid @ 0.3ml/liter of water is suggested to protect the crop against these insect pests. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borers in brinjal. If infestation occurs, spraying of Spinosad 48 EC @1ml/4 liters of water is advised. Collection of infested fruits and shoots, and burying of these infested parts are advised before spraying. |
| Fruit plants | Planting | Present weather conditions are congenial for planting of fruit trees. Planting of healthy saplings of fruit trees such as mango, litchi, jackfruit, guava, custard and lemon is advised. |

**(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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According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 33.3°C and 26.8°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 72 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.4°C at 0700 hrs. and 32.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.6 km/hr, 8.5 hours and 4.9 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(11th -15th August, 2018)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th August** | **12th August** | **13th August** | **14th August** | **15th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **10** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **35** | **35** | **34** | **34** | **35** | **Maximum temperature will remain between 34-35°C and the minimum between 26-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **27** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | Complete the transplanting of *kharif* paddy at the earliest. Weed management is advised in the rice field on priority bases. Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. |
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**(Nodal Officer)**