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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. 58****Date: Tuesday, 14th 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 31.7°C and 25.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 78 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.2°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.2 hours and 3.7 mm respectively. At the center, about 75.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(15th -19th August, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **5** | **5** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **34** | **35** | **35** | **35** | **36** | **Maximum temperature will remain between 34-36°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **6** | **8** | **6** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **60** | **60** | **60** |  |
| **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
* After the harvest of mango from the orchard of 10 years old, application of 15-20 kg cow dung, 1.25 kg nitrogen, 300-400 gram phosphorus, 1.0 kg potash, 50 gram borax and 15-20 gram Thimate per plant is advised every year. This will help good harvest and the trees would remain healthy.
 |
| Paddy | Tillering | Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. Weed management is also advised in the rice field on priority bases. |
| Maize | Vegetative | Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phonological stages of the crop are conductive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant. |
| Pigeon Pea/ September pigeon pea  | Land preparation | Land preparation is advised for sowing of September pigeon pea. Intercultural operation is advised in July sown pigeon pea crop.  |
| 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.  |
| Cauliflower | Nursery sowing | * 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.
* Complete the nursery sowing of mid duration varieties of cauliflower such as *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* in raised seedbed at the earliest.
 |
| 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  | - | 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. |
| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

**(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. 58****Date: Tuesday, 14th 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 31.7°C and 25.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 78 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.2°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.2 hours and 3.7 mm respectively. At the center, about 75.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **25** | **10** | **5** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **35** | **35** | **35** | **35** | **Maximum temperature will remain between 33-35°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **6** | **8** | **6** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
* After the harvest of mango from the orchard of 10 years old, application of 15-20 kg cow dung, 1.25 kg nitrogen, 300-400 gram phosphorus, 1.0 kg potash, 50 gram borax and 15-20 gram Thimate per plant is advised every year. This will help good harvest and the trees would remain healthy.
 |
| Paddy | Tillering | Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. Weed management is also advised in the rice field on priority bases. |
| Maize | Vegetative | Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phonological stages of the crop are conductive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant. |
| Pigeon Pea/ September pigeon pea  | Land preparation | Land preparation is advised for sowing of September pigeon pea. Intercultural operation is advised in July sown pigeon pea crop.  |
| 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.  |
| Cauliflower | Nursery sowing | * 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.
* Complete the nursery sowing of mid duration varieties of cauliflower such as *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* in raised seedbed at the earliest.
 |
| 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  | - | 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. |
| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

 **(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. 58****Date: Tuesday, 14th 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 31.7°C and 25.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 78 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.2°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.2 hours and 3.7 mm respectively. At the center, about 75.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **5** | **5** | **5** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **35** | **36** | **36** | **Maximum temperature will remain between 33-36°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **7** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
* After the harvest of mango from the orchard of 10 years old, application of 15-20 kg cow dung, 1.25 kg nitrogen, 300-400 gram phosphorus, 1.0 kg potash, 50 gram borax and 15-20 gram Thimate per plant is advised every year. This will help good harvest and the trees would remain healthy.
 |
| Paddy | Tillering | Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. Weed management is also advised in the rice field on priority bases. |
| Maize | Vegetative | Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phonological stages of the crop are conductive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant. |
| Pigeon Pea/ September pigeon pea  | Land preparation | Land preparation is advised for sowing of September pigeon pea. Intercultural operation is advised in July sown pigeon pea crop.  |
| 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.  |
| Cauliflower | Nursery sowing | * 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.
* Complete the nursery sowing of mid duration varieties of cauliflower such as *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* in raised seedbed at the earliest.
 |
| 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  | - | 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. |
| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

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

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **5** | **5** | **5** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **36** | **36** | **36** | **Maximum temperature will remain between 33-36°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **7** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
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 |
| Paddy | Tillering | Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. Weed management is also advised in the rice field on priority bases. |
| Maize | Vegetative | Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phonological stages of the crop are conductive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant. |
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| 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.  |
| Cauliflower | Nursery sowing | * 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.
* Complete the nursery sowing of mid duration varieties of cauliflower such as *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* in raised seedbed at the earliest.
 |
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| Vegetables  | - | 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. |
| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

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

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **25** | **10** | **5** | **2** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **36** | **36** | **36** | **Maximum temperature will remain between 33-36°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **7** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
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| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

 **(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)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **25** | **10** | **5** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **35** | **35** | **35** | **35** | **Maximum temperature will remain between 33-35°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **6** | **8** | **6** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
* After the harvest of mango from the orchard of 10 years old, application of 15-20 kg cow dung, 1.25 kg nitrogen, 300-400 gram phosphorus, 1.0 kg potash, 50 gram borax and 15-20 gram Thimate per plant is advised every year. This will help good harvest and the trees would remain healthy.
 |
| Paddy | Tillering | Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. Weed management is also advised in the rice field on priority bases. |
| Maize | Vegetative | Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phonological stages of the crop are conductive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant. |
| Pigeon Pea/ September pigeon pea  | Land preparation | Land preparation is advised for sowing of September pigeon pea. Intercultural operation is advised in July sown pigeon pea crop.  |
| 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.  |
| Cauliflower | Nursery sowing | * 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.
* Complete the nursery sowing of mid duration varieties of cauliflower such as *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* in raised seedbed at the earliest.
 |
| 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  | - | 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. |
| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

 **(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. 58****Date: Tuesday, 14th 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 31.7°C and 25.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 78 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.2°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.2 hours and 3.7 mm respectively. At the center, about 75.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **5** | **5** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **35** | **35** | **35** | **35** | **Maximum temperature will remain between 33-35°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **6** | **8** | **6** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
* After the harvest of mango from the orchard of 10 years old, application of 15-20 kg cow dung, 1.25 kg nitrogen, 300-400 gram phosphorus, 1.0 kg potash, 50 gram borax and 15-20 gram Thimate per plant is advised every year. This will help good harvest and the trees would remain healthy.
 |
| Paddy | Tillering | Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. Weed management is also advised in the rice field on priority bases. |
| Maize | Vegetative | Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phonological stages of the crop are conductive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant. |
| Pigeon Pea/ September pigeon pea  | Land preparation | Land preparation is advised for sowing of September pigeon pea. Intercultural operation is advised in July sown pigeon pea crop.  |
| 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.  |
| Cauliflower | Nursery sowing | * 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.
* Complete the nursery sowing of mid duration varieties of cauliflower such as *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* in raised seedbed at the earliest.
 |
| 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  | - | 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. |
| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

 **(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. 58****Date: Tuesday, 14th 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 31.7°C and 25.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 78 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.2°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.2 hours and 3.7 mm respectively. At the center, about 75.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **25** | **10** | **5** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **34** | **35** | **35** | **35** | **36** | **Maximum temperature will remain between 34-36°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **7** | **7** | **6** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
* After the harvest of mango from the orchard of 10 years old, application of 15-20 kg cow dung, 1.25 kg nitrogen, 300-400 gram phosphorus, 1.0 kg potash, 50 gram borax and 15-20 gram Thimate per plant is advised every year. This will help good harvest and the trees would remain healthy.
 |
| Paddy | Tillering | Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. Weed management is also advised in the rice field on priority bases. |
| Maize | Vegetative | Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phonological stages of the crop are conductive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant. |
| Pigeon Pea/ September pigeon pea  | Land preparation | Land preparation is advised for sowing of September pigeon pea. Intercultural operation is advised in July sown pigeon pea crop.  |
| 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.  |
| Cauliflower | Nursery sowing | * 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.
* Complete the nursery sowing of mid duration varieties of cauliflower such as *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* in raised seedbed at the earliest.
 |
| 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  | - | 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. |
| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

 **(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. 58****Date: Tuesday, 14th 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 31.7°C and 25.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 78 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.2°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.2 hours and 3.7 mm respectively. At the center, about 75.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **10** | **5** | **2** | **2** | **5** | **Light to medium** |
| **Max. T (°C)** | **34** | **35** | **36** | **36** | **37** | **Maximum temperature will remain between 34-37°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **7** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
* After the harvest of mango from the orchard of 10 years old, application of 15-20 kg cow dung, 1.25 kg nitrogen, 300-400 gram phosphorus, 1.0 kg potash, 50 gram borax and 15-20 gram Thimate per plant is advised every year. This will help good harvest and the trees would remain healthy.
 |
| Paddy | Tillering | Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. Weed management is also advised in the rice field on priority bases. |
| Maize | Vegetative | Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phonological stages of the crop are conductive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant. |
| Pigeon Pea/ September pigeon pea  | Land preparation | Land preparation is advised for sowing of September pigeon pea. Intercultural operation is advised in July sown pigeon pea crop.  |
| 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.  |
| Cauliflower | Nursery sowing | * 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.
* Complete the nursery sowing of mid duration varieties of cauliflower such as *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* in raised seedbed at the earliest.
 |
| 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  | - | 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. |
| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

 **(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. 58****Date: Tuesday, 14th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

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

 **(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **5** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **35** | **35** | **36** | **Maximum temperature will remain between 33-36°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **7** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
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 |
| Paddy | Tillering | Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. Weed management is also advised in the rice field on priority bases. |
| Maize | Vegetative | Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phonological stages of the crop are conductive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant. |
| Pigeon Pea/ September pigeon pea  | Land preparation | Land preparation is advised for sowing of September pigeon pea. Intercultural operation is advised in July sown pigeon pea crop.  |
| 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.  |
| Cauliflower | Nursery sowing | * 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.
* Complete the nursery sowing of mid duration varieties of cauliflower such as *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* in raised seedbed at the earliest.
 |
| 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  | - | 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. |
| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

 **(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 58****Date: Tuesday, 14th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

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

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **5** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **34** | **34** | **35** | **35** | **36** | **Maximum temperature will remain between 34-36°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **7** | **7** | **6** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
* After the harvest of mango from the orchard of 10 years old, application of 15-20 kg cow dung, 1.25 kg nitrogen, 300-400 gram phosphorus, 1.0 kg potash, 50 gram borax and 15-20 gram Thimate per plant is advised every year. This will help good harvest and the trees would remain healthy.
 |
| Paddy | Tillering | Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. Weed management is also advised in the rice field on priority bases. |
| Maize | Vegetative | Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phonological stages of the crop are conductive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant. |
| Pigeon Pea/ September pigeon pea  | Land preparation | Land preparation is advised for sowing of September pigeon pea. Intercultural operation is advised in July sown pigeon pea crop.  |
| 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.  |
| Cauliflower | Nursery sowing | * 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.
* Complete the nursery sowing of mid duration varieties of cauliflower such as *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* in raised seedbed at the earliest.
 |
| 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  | - | 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. |
| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

 **(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. 58****Date: Tuesday, 14th 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 31.7°C and 25.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 78 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.2°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.2 hours and 3.7 mm respectively. At the center, about 75.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

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

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **5** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **32** | **35** | **35** | **35** | **Maximum temperature will remain between 32-35°C and the minimum between 27-29°C.** |
| **Mini. T (°C)** | **28** | **28** | **27** | **27** | **28** |
| **Cloud cover (okta)** | **8** | **7** | **7** | **6** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
* After the harvest of mango from the orchard of 10 years old, application of 15-20 kg cow dung, 1.25 kg nitrogen, 300-400 gram phosphorus, 1.0 kg potash, 50 gram borax and 15-20 gram Thimate per plant is advised every year. This will help good harvest and the trees would remain healthy.
 |
| Paddy | Tillering | Regular monitoring is advised for infestation of stem borer and leaf folder in early sown paddy crop. Weed management is also advised in the rice field on priority bases. |
| Maize | Vegetative | Regular monitoring is advised for infestation of stem borer in maize crop. Current weather and present phonological stages of the crop are conductive for infestation of this pest. If infestation is observed, placing of carbofuran 3G@7kg per hectare is advised in whorl of the crop plant. |
| Pigeon Pea/ September pigeon pea  | Land preparation | Land preparation is advised for sowing of September pigeon pea. Intercultural operation is advised in July sown pigeon pea crop.  |
| 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.  |
| Cauliflower | Nursery sowing | * 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.
* Complete the nursery sowing of mid duration varieties of cauliflower such as *Aghani, Pusi, Patna main, Pusa synthetic-I, Pusa shubhra, Pusa sarad, Pusa meghna, Kashi kuwari, and Early snowball* in raised seedbed at the earliest.
 |
| 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  | - | 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. |
| Animal care | - | Prophylactic measures against contagious diseases for milch animals are advised as per instruction of veterinarians. Hygiene should be maintained at the place where animals are kept. |

 **(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)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **15th August** | **16th August** | **17th August** | **18th August** | **19th August** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **5** | **5** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **35** | **35** | **36** | **Maximum temperature will remain between 33-36°C and the minimum between 26-28°C.** |
| **Mini. T (°C)** | **26** | **27** | **28** | **28** | **28** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **7** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **50** | **50** | **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)** |
| 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. Before planting, 40-50 kg FYM per plant is advised for healthy growth.
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 **(A. Sattar)**

**(Nodal Officer)**