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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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.5°C and 27.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 60 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.5°C at 0700 hrs and 32.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.0km/hr, 9.5 hours and 5.8mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **15** | **15** | **20** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **7** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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. |
| Papaya | Nursery sowing | Nursery sowing of papaya is advised in raised seedbed. *Pusa dwarf, Pusa nanha, Pusa delicious, CO-07, Surya, Red lady* varieties of papaya are recommended for planting in North Bihar. Seed rate@300-350 gram per hectare is advised. Sowing of seed is advised at a distance of 7-10 cm. Seed should be treated with Carbendazim@2gram /kg of seed. |
| Cauliflower | Transplanting/  Nursery sowing | * Transplanting of early varieties of cauliflower such as *Kashi Kuwanri, Pusa Deepali, Early Kuwanri, Pusa Kartik, Pant Gobhi-3, Pusa Kartik Shanker* is advised. * Nursery sowing of *Pusa Aghani, Pusa Shubhra, Pusa Sarad, Pant Gobhi-4 and Pusa Hybrid-2* varieties of cauliflower is advised in raised seedbed. Seed rate @500-700 gram /hectare is advised. |
| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
| Fruit plants | Planting | Planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, blackberry, custard apple, lemon is advised. It is the congenial period for planting. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation. |
| * Weeding is advised in turmeric, ginger, elephant foot yam and *kharif* vegetables. Regular monitoring is also advised against attack of insect-pests and diseases. * Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetable nursery. These insect-pests cause viral infections in nursery. For management, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear days. | | |

**(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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.5°C and 27.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 60 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.5°C at 0700 hrs and 32.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.0km/hr, 9.5 hours and 5.8mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(Darbhanga)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **2** | **2** | **2** | **10** | **10** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **7** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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. |
| Papaya | Nursery sowing | Nursery sowing of papaya is advised in raised seedbed. *Pusa dwarf, Pusa nanha, Pusa delicious, CO-07, Surya, Red lady* varieties of papaya are recommended for planting in North Bihar. Seed rate@300-350 gram per hectare is advised. Sowing of seed is advised at a distance of 7-10 cm. Seed should be treated with Carbendazim@2gram /kg of seed. |
| Cauliflower | Transplanting/  Nursery sowing | * Transplanting of early varieties of cauliflower such as *Kashi Kuwanri, Pusa Deepali, Early Kuwanri, Pusa Kartik, Pant Gobhi-3, Pusa Kartik Shanker* is advised. * Nursery sowing of *Pusa Aghani, Pusa Shubhra, Pusa Sarad, Pant Gobhi-4 and Pusa Hybrid-2* varieties of cauliflower is advised in raised seedbed. Seed rate @500-700 gram /hectare is advised. |
| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
| Fruit plants | Planting | Planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, blackberry, custard apple, lemon is advised. It is the congenial period for planting. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation. |
| * Weeding is advised in turmeric, ginger, elephant foot yam and *kharif* vegetables. Regular monitoring is also advised against attack of insect-pests and diseases. * Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetable nursery. These insect-pests cause viral infections in nursery. For management, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear days. | | |

**(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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.5°C and 27.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 60 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.5°C at 0700 hrs and 32.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.0km/hr, 9.5 hours and 5.8mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **25** | **5** | **5** | **20** | **10** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **7** | **6** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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. |
| Papaya | Nursery sowing | Nursery sowing of papaya is advised in raised seedbed. *Pusa dwarf, Pusa nanha, Pusa delicious, CO-07, Surya, Red lady* varieties of papaya are recommended for planting in North Bihar. Seed rate@300-350 gram per hectare is advised. Sowing of seed is advised at a distance of 7-10 cm. Seed should be treated with Carbendazim@2gram /kg of seed. |
| Cauliflower | Transplanting/  Nursery sowing | * Transplanting of early varieties of cauliflower such as *Kashi Kuwanri, Pusa Deepali, Early Kuwanri, Pusa Kartik, Pant Gobhi-3, Pusa Kartik Shanker* is advised. * Nursery sowing of *Pusa Aghani, Pusa Shubhra, Pusa Sarad, Pant Gobhi-4 and Pusa Hybrid-2* varieties of cauliflower is advised in raised seedbed. Seed rate @500-700 gram /hectare is advised. |
| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
| Fruit plants | Planting | Planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, blackberry, custard apple, lemon is advised. It is the congenial period for planting. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation. |
| * Weeding is advised in turmeric, ginger, elephant foot yam and *kharif* vegetables. Regular monitoring is also advised against attack of insect-pests and diseases. * Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetable nursery. These insect-pests cause viral infections in nursery. For management, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear days. | | |

**(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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.5°C and 27.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 60 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.5°C at 0700 hrs and 32.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.0km/hr, 9.5 hours and 5.8mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **10** | **20** | **10** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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. |
| Papaya | Nursery sowing | Nursery sowing of papaya is advised in raised seedbed. *Pusa dwarf, Pusa nanha, Pusa delicious, CO-07, Surya, Red lady* varieties of papaya are recommended for planting in North Bihar. Seed rate@300-350 gram per hectare is advised. Sowing of seed is advised at a distance of 7-10 cm. Seed should be treated with Carbendazim@2gram /kg of seed. |
| Cauliflower | Transplanting/  Nursery sowing | * Transplanting of early varieties of cauliflower such as *Kashi Kuwanri, Pusa Deepali, Early Kuwanri, Pusa Kartik, Pant Gobhi-3, Pusa Kartik Shanker* is advised. * Nursery sowing of *Pusa Aghani, Pusa Shubhra, Pusa Sarad, Pant Gobhi-4 and Pusa Hybrid-2* varieties of cauliflower is advised in raised seedbed. Seed rate @500-700 gram /hectare is advised. |
| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
| Fruit plants | Planting | Planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, blackberry, custard apple, lemon is advised. It is the congenial period for planting. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation. |
| * Weeding is advised in turmeric, ginger, elephant foot yam and *kharif* vegetables. Regular monitoring is also advised against attack of insect-pests and diseases. * Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetable nursery. These insect-pests cause viral infections in nursery. For management, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear days. | | |

**(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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.5°C and 27.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 60 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.5°C at 0700 hrs and 32.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.0km/hr, 9.5 hours and 5.8mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **15** | **10** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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. |
| Papaya | Nursery sowing | Nursery sowing of papaya is advised in raised seedbed. *Pusa dwarf, Pusa nanha, Pusa delicious, CO-07, Surya, Red lady* varieties of papaya are recommended for planting in North Bihar. Seed rate@300-350 gram per hectare is advised. Sowing of seed is advised at a distance of 7-10 cm. Seed should be treated with Carbendazim@2gram /kg of seed. |
| Cauliflower | Transplanting/  Nursery sowing | * Transplanting of early varieties of cauliflower such as *Kashi Kuwanri, Pusa Deepali, Early Kuwanri, Pusa Kartik, Pant Gobhi-3, Pusa Kartik Shanker* is advised. * Nursery sowing of *Pusa Aghani, Pusa Shubhra, Pusa Sarad, Pant Gobhi-4 and Pusa Hybrid-2* varieties of cauliflower is advised in raised seedbed. Seed rate @500-700 gram /hectare is advised. |
| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
| Fruit plants | Planting | Planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, blackberry, custard apple, lemon is advised. It is the congenial period for planting. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation. |
| * Weeding is advised in turmeric, ginger, elephant foot yam and *kharif* vegetables. Regular monitoring is also advised against attack of insect-pests and diseases. * Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetable nursery. These insect-pests cause viral infections in nursery. For management, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear days. | | |

**(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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.5°C and 27.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 60 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.5°C at 0700 hrs and 32.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.0km/hr, 9.5 hours and 5.8mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **20** | **15** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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. |
| Papaya | Nursery sowing | Nursery sowing of papaya is advised in raised seedbed. *Pusa dwarf, Pusa nanha, Pusa delicious, CO-07, Surya, Red lady* varieties of papaya are recommended for planting in North Bihar. Seed rate@300-350 gram per hectare is advised. Sowing of seed is advised at a distance of 7-10 cm. Seed should be treated with Carbendazim@2gram /kg of seed. |
| Cauliflower | Transplanting/  Nursery sowing | * Transplanting of early varieties of cauliflower such as *Kashi Kuwanri, Pusa Deepali, Early Kuwanri, Pusa Kartik, Pant Gobhi-3, Pusa Kartik Shanker* is advised. * Nursery sowing of *Pusa Aghani, Pusa Shubhra, Pusa Sarad, Pant Gobhi-4 and Pusa Hybrid-2* varieties of cauliflower is advised in raised seedbed. Seed rate @500-700 gram /hectare is advised. |
| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
| Fruit plants | Planting | Planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, blackberry, custard apple, lemon is advised. It is the congenial period for planting. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation. |
| * Weeding is advised in turmeric, ginger, elephant foot yam and *kharif* vegetables. Regular monitoring is also advised against attack of insect-pests and diseases. * Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetable nursery. These insect-pests cause viral infections in nursery. For management, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear days. | | |

**(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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.5°C and 27.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 60 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.5°C at 0700 hrs and 32.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.0km/hr, 9.5 hours and 5.8mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **30** | **20** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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. |
| Papaya | Nursery sowing | Nursery sowing of papaya is advised in raised seedbed. *Pusa dwarf, Pusa nanha, Pusa delicious, CO-07, Surya, Red lady* varieties of papaya are recommended for planting in North Bihar. Seed rate@300-350 gram per hectare is advised. Sowing of seed is advised at a distance of 7-10 cm. Seed should be treated with Carbendazim@2gram /kg of seed. |
| Cauliflower | Transplanting/  Nursery sowing | * Transplanting of early varieties of cauliflower such as *Kashi Kuwanri, Pusa Deepali, Early Kuwanri, Pusa Kartik, Pant Gobhi-3, Pusa Kartik Shanker* is advised. * Nursery sowing of *Pusa Aghani, Pusa Shubhra, Pusa Sarad, Pant Gobhi-4 and Pusa Hybrid-2* varieties of cauliflower is advised in raised seedbed. Seed rate @500-700 gram /hectare is advised. |
| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
| Fruit plants | Planting | Planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, blackberry, custard apple, lemon is advised. It is the congenial period for planting. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation. |
| * Weeding is advised in turmeric, ginger, elephant foot yam and *kharif* vegetables. Regular monitoring is also advised against attack of insect-pests and diseases. * Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetable nursery. These insect-pests cause viral infections in nursery. For management, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear days. | | |

**(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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.5°C and 27.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 60 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.5°C at 0700 hrs and 32.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.0km/hr, 9.5 hours and 5.8mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **30** | **20** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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. |
| Papaya | Nursery sowing | Nursery sowing of papaya is advised in raised seedbed. *Pusa dwarf, Pusa nanha, Pusa delicious, CO-07, Surya, Red lady* varieties of papaya are recommended for planting in North Bihar. Seed rate@300-350 gram per hectare is advised. Sowing of seed is advised at a distance of 7-10 cm. Seed should be treated with Carbendazim@2gram /kg of seed. |
| Cauliflower | Transplanting/  Nursery sowing | * Transplanting of early varieties of cauliflower such as *Kashi Kuwanri, Pusa Deepali, Early Kuwanri, Pusa Kartik, Pant Gobhi-3, Pusa Kartik Shanker* is advised. * Nursery sowing of *Pusa Aghani, Pusa Shubhra, Pusa Sarad, Pant Gobhi-4 and Pusa Hybrid-2* varieties of cauliflower is advised in raised seedbed. Seed rate @500-700 gram /hectare is advised. |
| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
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| * Weeding is advised in turmeric, ginger, elephant foot yam and *kharif* vegetables. Regular monitoring is also advised against attack of insect-pests and diseases. * Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetable nursery. These insect-pests cause viral infections in nursery. For management, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear days. | | |

**(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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.5°C and 27.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 60 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.5°C at 0700 hrs and 32.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.0km/hr, 9.5 hours and 5.8mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **10** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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. |
| Papaya | Nursery sowing | Nursery sowing of papaya is advised in raised seedbed. *Pusa dwarf, Pusa nanha, Pusa delicious, CO-07, Surya, Red lady* varieties of papaya are recommended for planting in North Bihar. Seed rate@300-350 gram per hectare is advised. Sowing of seed is advised at a distance of 7-10 cm. Seed should be treated with Carbendazim@2gram /kg of seed. |
| Cauliflower | Transplanting/  Nursery sowing | * Transplanting of early varieties of cauliflower such as *Kashi Kuwanri, Pusa Deepali, Early Kuwanri, Pusa Kartik, Pant Gobhi-3, Pusa Kartik Shanker* is advised. * Nursery sowing of *Pusa Aghani, Pusa Shubhra, Pusa Sarad, Pant Gobhi-4 and Pusa Hybrid-2* varieties of cauliflower is advised in raised seedbed. Seed rate @500-700 gram /hectare is advised. |
| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
| Fruit plants | Planting | Planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, blackberry, custard apple, lemon is advised. It is the congenial period for planting. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation. |
| * Weeding is advised in turmeric, ginger, elephant foot yam and *kharif* vegetables. Regular monitoring is also advised against attack of insect-pests and diseases. * Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetable nursery. These insect-pests cause viral infections in nursery. For management, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear days. | | |

**(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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **10** | **5** | **5** | **5** | **10** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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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| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
| Fruit plants | Planting | Planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, blackberry, custard apple, lemon is advised. It is the congenial period for planting. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation. |
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**(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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.5°C and 27.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 60 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.5°C at 0700 hrs and 32.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.0km/hr, 9.5 hours and 5.8mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(Siwan)**

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| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **10** | **5** | **5** | **30** | **15** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
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| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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. |
| Papaya | Nursery sowing | Nursery sowing of papaya is advised in raised seedbed. *Pusa dwarf, Pusa nanha, Pusa delicious, CO-07, Surya, Red lady* varieties of papaya are recommended for planting in North Bihar. Seed rate@300-350 gram per hectare is advised. Sowing of seed is advised at a distance of 7-10 cm. Seed should be treated with Carbendazim@2gram /kg of seed. |
| Cauliflower | Transplanting/  Nursery sowing | * Transplanting of early varieties of cauliflower such as *Kashi Kuwanri, Pusa Deepali, Early Kuwanri, Pusa Kartik, Pant Gobhi-3, Pusa Kartik Shanker* is advised. * Nursery sowing of *Pusa Aghani, Pusa Shubhra, Pusa Sarad, Pant Gobhi-4 and Pusa Hybrid-2* varieties of cauliflower is advised in raised seedbed. Seed rate @500-700 gram /hectare is advised. |
| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
| Fruit plants | Planting | Planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, blackberry, custard apple, lemon is advised. It is the congenial period for planting. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation. |
| * Weeding is advised in turmeric, ginger, elephant foot yam and *kharif* vegetables. Regular monitoring is also advised against attack of insect-pests and diseases. * Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetable nursery. These insect-pests cause viral infections in nursery. For management, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear days. | | |

**(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. 62**  **Date: Tuesday, 6th August, 2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.5°C and 27.8°C, respectively. Average relative humidity was 85 percent at 0700 hrs and 60 percent at 1400 hrs. Soil temperature at 5 cm depth was 30.5°C at 0700 hrs and 32.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.0km/hr, 9.5 hours and 5.8mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(Vaishali)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **30** | **10** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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. |
| Papaya | Nursery sowing | Nursery sowing of papaya is advised in raised seedbed. *Pusa dwarf, Pusa nanha, Pusa delicious, CO-07, Surya, Red lady* varieties of papaya are recommended for planting in North Bihar. Seed rate@300-350 gram per hectare is advised. Sowing of seed is advised at a distance of 7-10 cm. Seed should be treated with Carbendazim@2gram /kg of seed. |
| Cauliflower | Transplanting/  Nursery sowing | * Transplanting of early varieties of cauliflower such as *Kashi Kuwanri, Pusa Deepali, Early Kuwanri, Pusa Kartik, Pant Gobhi-3, Pusa Kartik Shanker* is advised. * Nursery sowing of *Pusa Aghani, Pusa Shubhra, Pusa Sarad, Pant Gobhi-4 and Pusa Hybrid-2* varieties of cauliflower is advised in raised seedbed. Seed rate @500-700 gram /hectare is advised. |
| Chili | Transplanting/  Nursery sowing | Transplanting of chili is advised for those farmers whose seedlings are ready. Nursery sowing of chili in raised seedbed is also advised. |
| *Kharif* paddy | Transplanting | Complete the transplanting of paddy. In the transplanted rice field, farmers are advised to give priority of weed management. |
| Pigeon Pea *(Arher)* | Sowing | Complete the sowing of Pigeon pea. Weeding is advised in early sown crop. Land preparation is advised for September pigeon pea. |
| *Kharif* onion | Land preparation/  Transplanting | * Application of 150-200 quintals of cow dung/hectare, 60 kg Nitrogen, 80 kg Phosphorus and 80 kg Potash is advised during land preparation. * Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. The size of seed bed may be 3X2m or 5x2 m. * Weeding is advised in late sown onion nursery. |
| Fruit plants | Planting | Planting of new saplings of fruit plants such as mango, litchi, jackfruit, guava, blackberry, custard apple, lemon is advised. It is the congenial period for planting. Before planting, pits should be treated with Cloropyrifos 20 EC@5 ml/ liter of water to prevent termite and white grub infestation. |
| * Weeding is advised in turmeric, ginger, elephant foot yam and *kharif* vegetables. Regular monitoring is also advised against attack of insect-pests and diseases. * Monitoring of sucking insect pests such as white fly, leaf hopper and aphid is advised in vegetable nursery. These insect-pests cause viral infections in nursery. For management, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear days. | | |

**(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(7-11 August, 2019)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **7**  **August** | **8**  **August** | **9**  **August** | **10**  **August** | **11**  **August** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **10** | **30** | **10** | **Scattered rainfall at isolated places; Light to moderate rainfall around 10-11 August at some places** |
| **Max. T (°C)** | **37** | **37** | **36** | **34** | **35** | **-** |
| **Mini. T (°C)** | **29** | **29** | **28** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **7** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| 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 region. 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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**(Nodal Officer)**