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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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **38** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **38** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **39** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **39** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **39** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between**  **27- 28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **36** | **36** | **36** | **35** | **36** | **Maximum temperature will remain between 35-36°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **27** | **27** | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **38** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **27** | **27** | 28 | 28 | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **38** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **27** | **27** | 28 | 28 | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **36** | 36 | 36 | **35** | **36** | **Maximum temperature will remain between 35-36°C and the minimum 27 - 28°C.** |
| **Mini. T (°C)** | **28** | **28** | 27 | 27 | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **39** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between 27 28°C.** |
| **Mini. T (°C)** | **27** | **27** | 28 | 28 | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **39** | **39** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between**  **27- 28°C.** |
| **Mini. T (°C)** | **27** | **27** | 28 | 28 | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **38** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between**  **27 - 28°C.** |
| **Mini. T (°C)** | **27** | **27** | 28 | 28 | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(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. 50**  **Date: Friday, 13 July, 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 35.0°C and 24.8°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 68 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.1°C at 0700 hrs. and 34.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.3 km/hr. 7.5 hours and 5.9 mm respectively. Mainly dry condition prevailed over north Bihar districts. At the centre, about 15.0 mm rainfall has been reported.

**Medium Range Weather Forecast**

**(14– 18 July, 2018)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **14 July** | **15 July** | **16 July** | **17 July** | **18 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **39** | **39** | **38** | **Maximum temperature will remain between**  **37- 39°C and the minimum between**  **27- 28°C.** |
| **Mini. T (°C)** | **27** | **27** | 28 | 28 | **27** |
| **Cloud cover (okta)** | **6** | **7** | **6** | **7** | **6** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Pigeon Pea  (Arher) | Sowing | Sowing of *Bahar, Pusa-9, Narendra Arhar-1* varieties of Pigeon pea is advised in upland areas. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur/ha is advised before sowing. Keep seed rate 18-20 kg/ha. Seed should be treated with Thiram/Capton@2.5gm/kg of seed. |
| Til | Sowing | Sowing of til crop is advised. Krishna, Kaakee safed, Kalika, Pragati varieties are recommended for sowing. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Sunflower | Sowing | Sowing of sunflower is advised in upland areas. Mordane, Surya, C O-1, Pairadevik and DRSF-108 for composite and BSH-1, KBSH-1, KBSH-44 and MSFH-1, MSHF-8 for hybrid varieties of sunflower are recommended for North Bihar. Application of 100 quintal FYM, 30 kg Nitrogen and 80 kg Phosphorus, 30-40 kg Potash per hectare is suggested during land preparation.Seed should be treated with thiram/captaaf @ 2 gram/ kg of seed. |
| Banana | Planting | Planting of healthy suckers of banana is advised. Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23 are the tall varieties and Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1 are the dwarf varieties, which are recommended for planting in North Bihar. Battisha, Sawa, Bankel, Kachkel,PHIA-3 varieties are used for vegetable purposes and Kothia, Muthia, Dudhsaager, and Chakia varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. |
| Rice | Sowing/transplanting | In view of poor rainfall, farmers are advised not to transplant rice seedlings in the upland areas. |

**(A. Sattar)**

**(Nodal Officer)**