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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. 51****Date: Tuesday, 17 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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **37** | **37** | **37** | **Maximum temperature will remain between 37-38°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **27** | **27** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(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. 51****Date: Tuesday, 17 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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **37** | **37** | **37** | **Maximum temperature will remain between 37-38°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **27** | **27** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(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. 51****Date: Tuesday, 17 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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **37** | **38** | **38** | **37** | **Maximum temperature will remain between 38-39°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(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. 51****Date: Tuesday, 17 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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **37** | **38** | **38** | **37** | **Maximum temperature will remain between 38-39°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(A. Sattar)**

**(Nodal Officer)**

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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **36** | **36** | **37** | **37** | **37** | **Maximum temperature will remain between 38-39°C and the minimum between** **27- 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **29** | **29** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **37** | **38** | **38** | **Maximum temperature will remain between 35-36°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **27** | **27** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **37** | **37** | **37** | **Maximum temperature will remain between 37-38°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **27** | **27** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(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. 51****Date: Tuesday, 17 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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **37** | **38** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between 27- 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **27** | **27** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(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. 51****Date: Tuesday, 17 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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **37** | **38** | **38** | **Maximum temperature will remain between 35-36°C and the minimum 27 - 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **27** | **27** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(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. 51****Date: Tuesday, 17 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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **38** | **38** | **37** | **Maximum temperature will remain between 38-39°C and the minimum between 27 28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **28** | **28** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(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. 51****Date: Tuesday, 17 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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **38** | **38** | **37** | **38** | **38** | **Maximum temperature will remain between 38-39°C and the minimum between** **27- 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **27** | **27** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(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. 51****Date: Tuesday, 17 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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **38** | **37** | **38** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between** **27 - 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **27** | **27** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(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. 51****Date: Tuesday, 17 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 34.9°C and 27.5°C respectively. Average relative humidity was 85 percent at 0700 hrs. and 66 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.7°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 7.1 km/hr. 7.2 hours and 5.4 mm respectively. Mainly dry condition prevailed over north Bihar districts.

**Medium Range Weather Forecast**

**(18– 22 July, 2018)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **18 July** | **19 July** | **20 July** | **21 July** | **22 July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **5** | **5** | **Scattered rainfall** |
| **Max. T (°C)** | **37** | **37** | **38** | **38** | **37** | **Maximum temperature will remain between** **37- 39°C and the minimum between** **27- 28°C.** |
| **Mini. T (°C)** | **28** | **28** | **28** | **28** | **27** |
| **Cloud cover (okta)** | **6** | **6** | **7** | **7** | **7** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **50** | **50** | **50** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Kharif maize | Early vegetative to Knee high stage |  In the kharif maize crop which is in 30-35 days stage, it is advised to do the earthing-up operation after removing weeds from the fields and application of 40 kg urea per hectare is suggested. |
| Rice | Transplanting | In view of poor rainfall in the forecasted period, it would prudent not to transplant paddy seedlings in the upland areas. Farmers having irrigation facility and seedlings ready are advised to transplant rice in the low land areas. In the condition of low rainfall and dry weather, weed growth in the early planted rice and nursery would be rampant. Farmers are advised to remove weeds from the fields. |
| Yam bean | Sowing | Sowing of yam bean is advised in upland areas. *Rajendra Mishrikand-1* and *Rajendra Mishrikand-2* varieties are recommended for sowing in North Bihar.  |
| *Kharif* onion | - | Weeding is advised in onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against rainfall and scorching sun.  |
| Pigeon Pea *(Arhar)* | Sowing | Sowing of Pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13* varieties of pigeon pea are recommended for sowing in North Bihar. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus and 20 kg/ha Potash and 20 kg Sulphur/ha is advised during land preparation. Seed rate@ 18-20 kg/ha is suggested. Seed should be treated with thiram/Capton @2.5gm/kg of seed. |

**(A. Sattar)**

**(Nodal Officer)**