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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. 53**  **Date: Tuesday, 24 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 33.7°C and 26.7°C respectively. Average relative humidity was 82 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.7°C at 0700 hrs. and 32.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 12.4 km/hr. 6.8 hours and 5.3 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **10** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **32** | **32** | **31** | **31** | **Maximum temperature will remain between 31-33°C and the minimum between 26-28°C.** |
| **Mini. T (°C)** | **27** | **27** | **28** | **27** | **26** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
| *Kharif* onion | Land preparation | * Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. * For healthy seedlings, weeding is advised in onion nursery in regular bases. |
| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
| Yambean | 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. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |
| 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. |
| *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. |

**(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. 53**  **Date: Tuesday, 24 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 33.7°C and 26.7°C respectively. Average relative humidity was 82 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.7°C at 0700 hrs. and 32.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 12.4 km/hr. 6.8 hours and 5.3 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **10** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **32** | **32** | **31** | **31** | **Maximum temperature will remain between 31-33°C and the minimum between 25-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
| *Kharif* onion | Land preparation | * Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. * For healthy seedlings, weeding is advised in onion nursery in regular bases. |
| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
| Yambean | 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. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |
| 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. |
| *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. |

**(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. 53**  **Date: Tuesday, 24 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 33.7°C and 26.7°C respectively. Average relative humidity was 82 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.7°C at 0700 hrs. and 32.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 12.4 km/hr. 6.8 hours and 5.3 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **40** | **10** | **10** | **20** | **15** | **Light to medium** |
| **Max. T (°C)** | **34** | **33** | **33** | **32** | **30** | **Maximum temperature will remain between 30-34°C and the minimum between 25-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
| *Kharif* onion | Land preparation | * Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. * For healthy seedlings, weeding is advised in onion nursery in regular bases. |
| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
| Yambean | 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. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |
| 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. |
| *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. |

**(A. Sattar)**

**(Nodal Officer)**

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

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 33.7°C and 26.7°C respectively. Average relative humidity was 82 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.7°C at 0700 hrs. and 32.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 12.4 km/hr. 6.8 hours and 5.3 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **10** | **20** | **15** | **Light to medium** |
| **Max. T (°C)** | **34** | **33** | **33** | **32** | **30** | **Maximum temperature will remain between 30-34°C and the minimum between 25-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
| *Kharif* onion | Land preparation | * Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. * For healthy seedlings, weeding is advised in onion nursery in regular bases. |
| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
| Yambean | 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. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |
| 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. |
| *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. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
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**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **30** | **15** | **15** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **32** | **32** | **31** | **31** | **Maximum temperature will remain between 31-33°C and the minimum between 25-27°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
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| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
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| 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. |
| *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. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
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**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **10** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **32** | **32** | **31** | **31** | **Maximum temperature will remain between 31-33°C and the minimum between 25-28°C.** |
| **Mini. T (°C)** | **28** | **28** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
| *Kharif* onion | Land preparation | * Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. * For healthy seedlings, weeding is advised in onion nursery in regular bases. |
| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
| Yambean | 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. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |
| 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. |
| *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. |

**(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. 53**  **Date: Tuesday, 24 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 33.7°C and 26.7°C respectively. Average relative humidity was 82 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.7°C at 0700 hrs. and 32.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 12.4 km/hr. 6.8 hours and 5.3 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **10** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **34** | **33** | **32** | **31** | **31** | **Maximum temperature will remain between 31-34°C and the minimum between 25-28°C.** |
| **Mini. T (°C)** | **28** | **28** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
| *Kharif* onion | Land preparation | * Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. * For healthy seedlings, weeding is advised in onion nursery in regular bases. |
| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
| Yambean | 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. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |
| 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. |
| *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. |

**(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. 53**  **Date: Tuesday, 24 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 33.7°C and 26.7°C respectively. Average relative humidity was 82 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.7°C at 0700 hrs. and 32.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 12.4 km/hr. 6.8 hours and 5.3 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **10** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **34** | **33** | **32** | **31** | **30** | **Maximum temperature will remain between 30-34°C and the minimum between 25-28°C.** |
| **Mini. T (°C)** | **28** | **28** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
| *Kharif* onion | Land preparation | * Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. * For healthy seedlings, weeding is advised in onion nursery in regular bases. |
| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
| Yambean | 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. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |
| 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. |
| *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. |

**(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. 53**  **Date: Tuesday, 24 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 33.7°C and 26.7°C respectively. Average relative humidity was 82 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.7°C at 0700 hrs. and 32.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 12.4 km/hr. 6.8 hours and 5.3 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **10** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **32** | **32** | **31** | **30** | **Maximum temperature will remain between 31-33°C and the minimum between 25-28°C.** |
| **Mini. T (°C)** | **28** | **28** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
| *Kharif* onion | Land preparation | * Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. * For healthy seedlings, weeding is advised in onion nursery in regular bases. |
| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
| Yambean | 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. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |
| 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. |
| *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. |

**(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. 53**  **Date: Tuesday, 24 July, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

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**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **30** | **15** | **15** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **32** | **32** | **31** | **31** | **Maximum temperature will remain between 31-33°C and the minimum between 25-27°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
| *Kharif* onion | Land preparation | * Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. * For healthy seedlings, weeding is advised in onion nursery in regular bases. |
| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
| Yambean | 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. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |
| 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. |
| *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. |

**(A. Sattar)**

**(Nodal Officer)**

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| --- | --- | --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
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**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **10** | **20** | **15** | **Light to medium** |
| **Max. T (°C)** | **34** | **33** | **33** | **32** | **30** | **Maximum temperature will remain between 30-34°C and the minimum between 25-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
| *Kharif* onion | Land preparation | * Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. * For healthy seedlings, weeding is advised in onion nursery in regular bases. |
| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
| Yambean | 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. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |
| 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. |
| *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. |

**(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. 53**  **Date: Tuesday, 24 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 33.7°C and 26.7°C respectively. Average relative humidity was 82 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 28.7°C at 0700 hrs. and 32.3°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 12.4 km/hr. 6.8 hours and 5.3 mm respectively. At the center, about 1.0 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **20** | **10** | **10** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **33** | **32** | **31** | **31** | **Maximum temperature will remain between 31-33°C and the minimum between 27-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **27** | **27** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
| *Kharif* onion | Land preparation | * Land preparation is advised for *kharif* onion. Application of 150-200 quintals of cow dung per hectare is suggested during land preparation. * For healthy seedlings, weeding is advised in onion nursery in regular bases. |
| *Lobia* | Sowing | Farmers are advised to complete the sowing of *lobia* crop in this weekend. *Pusa barsaati, Pusa do fasali, Pusa komal, Nerandra lobiya-1 and Selection-263* varieties are recommended for sowing in north Bihar. Seed rate@20-25 kg/hectare with planting distance 60X45 cm is advised. |
| Chili | Nursery sowing | Nursery sowing of chili in raised seedbed is advised. Improved varieties such as *Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol* and Hybrid varieties such as *Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267* of chili are recommended for sowing in North Bihar. Seeds should be treated with Thiram75% dust before sowing. |
| Yambean | 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. |
| Green gram/  Black gram | Sowing | Sowing of Green gram (*Mung bean*) & Black gram (*Urd*) is advised in the upland areas. Application of 20 kg Nitrogen, 45 kg Phosphorus, 20kg Potash and 20 kg sulphur/ha is advised during land preparation. *HUM-16* variety for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Treated seed with rhizobium culture should be applied. Seed rate@20-25 kg/hectare with planting distance 30X10 cm is advised. |
| 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. |
| *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. |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
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**Medium Range Weather Forecast**

**(25– 29 July, 2018)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **25 July** | **26 July** | **27 July** | **28 July** | **29 July** | **Remarks** |
| **Rainfall(mm)** | **40** | **10** | **10** | **20** | **15** | **Light to medium** |
| **Max. T (°C)** | **34** | **33** | **33** | **32** | **30** | **Maximum temperature will remain between 30-34°C and the minimum between 25-28°C.** |
| **Mini. T (°C)** | **28** | **27** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **7** | **8** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **65** | **65** | **65** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Transplanting | In view of rainfall in the forecasted period, priority should be given for transplanting of rice in low/medium land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 40 kg Potassium for medium duration paddy and 25 kg Nitrogen, 40 kg Phosphorus and 30 kg Potassium for early varieties with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation. Weeding is also suggested in 20-25 days old paddy crop. |
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**(A. Sattar)**

**(Nodal Officer)**