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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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 26.4°C and 12.0°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 47 percent at 1400 hrs. Soil temperature at 5 cm depth was 16.5°C at 0700 hrs and 26.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.6km/hr, 6.0 hours and 3.0mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **7** | **2** | **0** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
| Sunflower | Sowing | Sowing of sunflower is advised. *Mordane, Surya, CO-1 and Pairadevik* and *DRSF-108* are composite varieties and *BSH-1, KBSH-1, MSFH-1, MSFH-8, MSFH-17* and *KBSH-44* varieties are hybrid, which are recommended for sowing in North Bihar. Application of 10-15 ton FYM, 30-40 kg Nitrogen, 80-90kg Phosphorus and 40 kg Potash per hectare is advised during land preparation. Seed rate@ 5.0 kg/ha for hybrid and 8.0 kg/ha for composite varieties is advised. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 26.4°C and 12.0°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 47 percent at 1400 hrs. Soil temperature at 5 cm depth was 16.5°C at 0700 hrs and 26.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.6km/hr, 6.0 hours and 3.0mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **2** | **2** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **5** | **2** | **0** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
| Sunflower | Sowing | Sowing of sunflower is advised. *Mordane, Surya, CO-1 and Pairadevik* and *DRSF-108* are composite varieties and *BSH-1, KBSH-1, MSFH-1, MSFH-8, MSFH-17* and *KBSH-44* varieties are hybrid, which are recommended for sowing in North Bihar. Application of 10-15 ton FYM, 30-40 kg Nitrogen, 80-90kg Phosphorus and 40 kg Potash per hectare is advised during land preparation. Seed rate@ 5.0 kg/ha for hybrid and 8.0 kg/ha for composite varieties is advised. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 26.4°C and 12.0°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 47 percent at 1400 hrs. Soil temperature at 5 cm depth was 16.5°C at 0700 hrs and 26.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.6km/hr, 6.0 hours and 3.0mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **6** | **3** | **0** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
| Sunflower | Sowing | Sowing of sunflower is advised. *Mordane, Surya, CO-1 and Pairadevik* and *DRSF-108* are composite varieties and *BSH-1, KBSH-1, MSFH-1, MSFH-8, MSFH-17* and *KBSH-44* varieties are hybrid, which are recommended for sowing in North Bihar. Application of 10-15 ton FYM, 30-40 kg Nitrogen, 80-90kg Phosphorus and 40 kg Potash per hectare is advised during land preparation. Seed rate@ 5.0 kg/ha for hybrid and 8.0 kg/ha for composite varieties is advised. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 26.4°C and 12.0°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 47 percent at 1400 hrs. Soil temperature at 5 cm depth was 16.5°C at 0700 hrs and 26.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.6km/hr, 6.0 hours and 3.0mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **5** | **2** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **5** | **0** | **0** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
| Sunflower | Sowing | Sowing of sunflower is advised. *Mordane, Surya, CO-1 and Pairadevik* and *DRSF-108* are composite varieties and *BSH-1, KBSH-1, MSFH-1, MSFH-8, MSFH-17* and *KBSH-44* varieties are hybrid, which are recommended for sowing in North Bihar. Application of 10-15 ton FYM, 30-40 kg Nitrogen, 80-90kg Phosphorus and 40 kg Potash per hectare is advised during land preparation. Seed rate@ 5.0 kg/ha for hybrid and 8.0 kg/ha for composite varieties is advised. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(A. Sattar)**

**(Nodal Officer)**

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**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **7** | **2** | **2** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
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| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 26.4°C and 12.0°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 47 percent at 1400 hrs. Soil temperature at 5 cm depth was 16.5°C at 0700 hrs and 26.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.6km/hr, 6.0 hours and 3.0mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **5** | **3** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **7** | **2** | **0** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
| Sunflower | Sowing | Sowing of sunflower is advised. *Mordane, Surya, CO-1 and Pairadevik* and *DRSF-108* are composite varieties and *BSH-1, KBSH-1, MSFH-1, MSFH-8, MSFH-17* and *KBSH-44* varieties are hybrid, which are recommended for sowing in North Bihar. Application of 10-15 ton FYM, 30-40 kg Nitrogen, 80-90kg Phosphorus and 40 kg Potash per hectare is advised during land preparation. Seed rate@ 5.0 kg/ha for hybrid and 8.0 kg/ha for composite varieties is advised. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 26.4°C and 12.0°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 47 percent at 1400 hrs. Soil temperature at 5 cm depth was 16.5°C at 0700 hrs and 26.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.6km/hr, 6.0 hours and 3.0mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **6** | **2** | **2** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
| Sunflower | Sowing | Sowing of sunflower is advised. *Mordane, Surya, CO-1 and Pairadevik* and *DRSF-108* are composite varieties and *BSH-1, KBSH-1, MSFH-1, MSFH-8, MSFH-17* and *KBSH-44* varieties are hybrid, which are recommended for sowing in North Bihar. Application of 10-15 ton FYM, 30-40 kg Nitrogen, 80-90kg Phosphorus and 40 kg Potash per hectare is advised during land preparation. Seed rate@ 5.0 kg/ha for hybrid and 8.0 kg/ha for composite varieties is advised. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 26.4°C and 12.0°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 47 percent at 1400 hrs. Soil temperature at 5 cm depth was 16.5°C at 0700 hrs and 26.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.6km/hr, 6.0 hours and 3.0mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **5** | **3** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **5** | **0** | **0** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
| Sunflower | Sowing | Sowing of sunflower is advised. *Mordane, Surya, CO-1 and Pairadevik* and *DRSF-108* are composite varieties and *BSH-1, KBSH-1, MSFH-1, MSFH-8, MSFH-17* and *KBSH-44* varieties are hybrid, which are recommended for sowing in North Bihar. Application of 10-15 ton FYM, 30-40 kg Nitrogen, 80-90kg Phosphorus and 40 kg Potash per hectare is advised during land preparation. Seed rate@ 5.0 kg/ha for hybrid and 8.0 kg/ha for composite varieties is advised. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **6** | **3** | **3** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
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| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **6** | **0** | **0** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
| Sunflower | Sowing | Sowing of sunflower is advised. *Mordane, Surya, CO-1 and Pairadevik* and *DRSF-108* are composite varieties and *BSH-1, KBSH-1, MSFH-1, MSFH-8, MSFH-17* and *KBSH-44* varieties are hybrid, which are recommended for sowing in North Bihar. Application of 10-15 ton FYM, 30-40 kg Nitrogen, 80-90kg Phosphorus and 40 kg Potash per hectare is advised during land preparation. Seed rate@ 5.0 kg/ha for hybrid and 8.0 kg/ha for composite varieties is advised. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 26.4°C and 12.0°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 47 percent at 1400 hrs. Soil temperature at 5 cm depth was 16.5°C at 0700 hrs and 26.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.6km/hr, 6.0 hours and 3.0mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **2** | **4** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **5** | **3** | **2** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
| Sunflower | Sowing | Sowing of sunflower is advised. *Mordane, Surya, CO-1 and Pairadevik* and *DRSF-108* are composite varieties and *BSH-1, KBSH-1, MSFH-1, MSFH-8, MSFH-17* and *KBSH-44* varieties are hybrid, which are recommended for sowing in North Bihar. Application of 10-15 ton FYM, 30-40 kg Nitrogen, 80-90kg Phosphorus and 40 kg Potash per hectare is advised during land preparation. Seed rate@ 5.0 kg/ha for hybrid and 8.0 kg/ha for composite varieties is advised. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 26.4°C and 12.0°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 47 percent at 1400 hrs. Soil temperature at 5 cm depth was 16.5°C at 0700 hrs and 26.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.6km/hr, 6.0 hours and 3.0mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **3** | **3** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **8** | **5** | **3** | **2** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
| Sunflower | Sowing | Sowing of sunflower is advised. *Mordane, Surya, CO-1 and Pairadevik* and *DRSF-108* are composite varieties and *BSH-1, KBSH-1, MSFH-1, MSFH-8, MSFH-17* and *KBSH-44* varieties are hybrid, which are recommended for sowing in North Bihar. Application of 10-15 ton FYM, 30-40 kg Nitrogen, 80-90kg Phosphorus and 40 kg Potash per hectare is advised during land preparation. Seed rate@ 5.0 kg/ha for hybrid and 8.0 kg/ha for composite varieties is advised. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
| Mustard/Vegetables | - | Present weather is conducive for spread of aphid population in late sown mustard, cauliflower, cabbage etc. If aphid population exceeds ETL, spraying of Dimethoate 30EC @ 1.0 ml/litre of water is advised.  |
| Pigeon pea  | Pod formation | Farmers are advised to monitor pod borer in pigeon pea crop. The larvae enter the pod and prefers to feed on the seeds. If infestation is observed, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised.  |
| Onion | Early vegetative | Regular monitoring is advised for thrips infestation in onion. The adults as well as nymphs damage the crop. The leaves of damaged plant become curled, wrinkled and gradually dry up. The damaged plants do not form bulbs. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised.  |

**(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. 16****Date: Tuesday, 26th February,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 26.4°C and 12.0°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 47 percent at 1400 hrs. Soil temperature at 5 cm depth was 16.5°C at 0700 hrs and 26.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.6km/hr, 6.0 hours and 3.0mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(27th February-3 March, 2019)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **27****February** | **28****February** | **1****March** | **2****March** | **3****March** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **0** | **0** | **0** | **Thunder shower during 27-28 February** |
| **Max. T (°C)** | **28** | **28** | **27** | **27** | **26** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **13** | **12** |
| **Cloud cover (okta)** | **7** | **6** | **0** | **0** | **0** | **cloudy sky**  |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast in the next 2 days, farmers are advised to take precaution in spraying of pesticides in the standing crops and harvesting of matured crops. Farmers are also advised to skip irrigation in standing crops.  |
| Green gram/Black gram | Land preparation | Land preparation is advised for sowing of Green gram (*Mung bean*) & Black gram (*Urd*). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for *Mung bean* and *Pant Urd-19, Pant Urd-31, Uttra and Navin* varietiesfor Urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small sized grain and 30-35 kg/ha for large sized grain is advised. Before sowing, farmers are advised to proper arrange the seeds from registered agency.  |
| Summer Maize | Sowing | Sowing of summer maize is advised. Application of 10-15 ton FYM, 40 kg Nitrogen, 40kg Phosphorus and 30 kg Potash per hectare is advised during land preparation. *Suwan, Deevki, Ganga-11, Shaktiman-1,2,3,4 and Shaktiman-5* varieties are recommended for sowing in North Bihar. Seed rate@20kg/ha is advised. Seed should be treated with *Captaf or Thiram* @ 2.5 gram /kg of seed. Ensure proper soil moisture in the field for good germination.  |
| Sunflower | Sowing | Sowing of sunflower is advised. *Mordane, Surya, CO-1 and Pairadevik* and *DRSF-108* are composite varieties and *BSH-1, KBSH-1, MSFH-1, MSFH-8, MSFH-17* and *KBSH-44* varieties are hybrid, which are recommended for sowing in North Bihar. Application of 10-15 ton FYM, 30-40 kg Nitrogen, 80-90kg Phosphorus and 40 kg Potash per hectare is advised during land preparation. Seed rate@ 5.0 kg/ha for hybrid and 8.0 kg/ha for composite varieties is advised. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| Vegetables | Sowing | Sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd ridge guard, bitter guard is advised. For healthy production of vegetables, application of 15-20 ton FYM is advised during land preparation.  |
| Fodder crop | Sowing | Sowing of *Sweet jowar* (multicut) and *Kohwa* varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. *Affrican tall* variety of maize is also advised for sowing as fodder crop. |
| Potato | Tuberisation/Maturity | Farmers are advised to dig out potato tubers from the field which is in matured stage. However, take precaution in view of rain forecast. It is advised to cut the upper vegetative parts of the crop for seed purpose.  |
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**(A. Sattar)**

**(Nodal Officer)**