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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. 18****Date: Tuesday, 5th  March,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 25.5°C and 10.7°C, respectively. Average relative humidity was 84 percent at 0700 hrs and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 15.4°C at 0700 hrs and 23.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.0km/hr, 6.5 hours and 2.7mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(6-10th March, 2019)**

**(Begusarai)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
* Complete the sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd, ridge guard, bitter guard etc. is advised.
 |
| Elephant foot yam | Land preparation | Land preparation is advised for sowing of elephant foot yam. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
| Summer Maize | Sowing | Sowing of summer maize is advised at the earliest. 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.  |
| Sunflower | Sowing | Sowing of sunflower is advised upto 10th March. *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. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| 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. Ensure the proper soil moisture before sowing. |
| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
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**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 18****Date: Tuesday, 5th  March,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 25.5°C and 10.7°C, respectively. Average relative humidity was 84 percent at 0700 hrs and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 15.4°C at 0700 hrs and 23.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.0km/hr, 6.5 hours and 2.7mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(Darbhanga)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
* Complete the sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd, ridge guard, bitter guard etc. is advised.
 |
| Elephant foot yam | Land preparation | Land preparation is advised for sowing of elephant foot yam. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
| Summer Maize | Sowing | Sowing of summer maize is advised at the earliest. 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.  |
| Sunflower | Sowing | Sowing of sunflower is advised upto 10th March. *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. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| 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. Ensure the proper soil moisture before sowing. |
| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
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**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 18****Date: Tuesday, 5th  March,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 25.5°C and 10.7°C, respectively. Average relative humidity was 84 percent at 0700 hrs and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 15.4°C at 0700 hrs and 23.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.0km/hr, 6.5 hours and 2.7mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(East Champaran)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
* Complete the sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd, ridge guard, bitter guard etc. is advised.
 |
| Elephant foot yam | Land preparation | Land preparation is advised for sowing of elephant foot yam. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
| Summer Maize | Sowing | Sowing of summer maize is advised at the earliest. 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.  |
| Sunflower | Sowing | Sowing of sunflower is advised upto 10th March. *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. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| 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. Ensure the proper soil moisture before sowing. |
| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
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**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 18****Date: Tuesday, 5th  March,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 25.5°C and 10.7°C, respectively. Average relative humidity was 84 percent at 0700 hrs and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 15.4°C at 0700 hrs and 23.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.0km/hr, 6.5 hours and 2.7mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **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)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
* Complete the sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd, ridge guard, bitter guard etc. is advised.
 |
| Elephant foot yam | Land preparation | Land preparation is advised for sowing of elephant foot yam. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
| Summer Maize | Sowing | Sowing of summer maize is advised at the earliest. 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.  |
| Sunflower | Sowing | Sowing of sunflower is advised upto 10th March. *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. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| 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. Ensure the proper soil moisture before sowing. |
| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
 |

**(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. 18****Date: Tuesday, 5th  March,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

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**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
* Complete the sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd, ridge guard, bitter guard etc. is advised.
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| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
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| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
 |

**(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. 18****Date: Tuesday, 5th  March,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 25.5°C and 10.7°C, respectively. Average relative humidity was 84 percent at 0700 hrs and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 15.4°C at 0700 hrs and 23.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.0km/hr, 6.5 hours and 2.7mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(Muzaffarpur)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
* Complete the sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd, ridge guard, bitter guard etc. is advised.
 |
| Elephant foot yam | Land preparation | Land preparation is advised for sowing of elephant foot yam. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
| Summer Maize | Sowing | Sowing of summer maize is advised at the earliest. 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.  |
| Sunflower | Sowing | Sowing of sunflower is advised upto 10th March. *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. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| 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. Ensure the proper soil moisture before sowing. |
| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
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**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 18****Date: Tuesday, 5th  March,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 25.5°C and 10.7°C, respectively. Average relative humidity was 84 percent at 0700 hrs and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 15.4°C at 0700 hrs and 23.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.0km/hr, 6.5 hours and 2.7mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

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| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
* Complete the sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd, ridge guard, bitter guard etc. is advised.
 |
| Elephant foot yam | Land preparation | Land preparation is advised for sowing of elephant foot yam. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
| Summer Maize | Sowing | Sowing of summer maize is advised at the earliest. 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.  |
| Sunflower | Sowing | Sowing of sunflower is advised upto 10th March. *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. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| 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. Ensure the proper soil moisture before sowing. |
| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
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**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 18****Date: Tuesday, 5th  March,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 25.5°C and 10.7°C, respectively. Average relative humidity was 84 percent at 0700 hrs and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 15.4°C at 0700 hrs and 23.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.0km/hr, 6.5 hours and 2.7mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(Saran)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **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)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
* Complete the sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd, ridge guard, bitter guard etc. is advised.
 |
| Elephant foot yam | Land preparation | Land preparation is advised for sowing of elephant foot yam. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
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| 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. Ensure the proper soil moisture before sowing. |
| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
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**(A. Sattar)**

**(Nodal Officer)**

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| **Bulletin No. 18****Date: Tuesday, 5th  March,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 25.5°C and 10.7°C, respectively. Average relative humidity was 84 percent at 0700 hrs and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 15.4°C at 0700 hrs and 23.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.0km/hr, 6.5 hours and 2.7mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
* Complete the sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd, ridge guard, bitter guard etc. is advised.
 |
| Elephant foot yam | Land preparation | Land preparation is advised for sowing of elephant foot yam. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
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| Sunflower | Sowing | Sowing of sunflower is advised upto 10th March. *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. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
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| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
 |

**(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. 18****Date: Tuesday, 5th  March,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
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| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
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| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
 |

**(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. 18****Date: Tuesday, 5th  March,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 25.5°C and 10.7°C, respectively. Average relative humidity was 84 percent at 0700 hrs and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 15.4°C at 0700 hrs and 23.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.0km/hr, 6.5 hours and 2.7mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(Siwan)**

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| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
* Complete the sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd, ridge guard, bitter guard etc. is advised.
 |
| Elephant foot yam | Land preparation | Land preparation is advised for sowing of elephant foot yam. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
| Summer Maize | Sowing | Sowing of summer maize is advised at the earliest. 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.  |
| Sunflower | Sowing | Sowing of sunflower is advised upto 10th March. *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. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| 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. Ensure the proper soil moisture before sowing. |
| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
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**(A. Sattar)**

**(Nodal Officer)**

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| **Bulletin No. 18****Date: Tuesday, 5th  March,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 25.5°C and 10.7°C, respectively. Average relative humidity was 84 percent at 0700 hrs and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 15.4°C at 0700 hrs and 23.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.0km/hr, 6.5 hours and 2.7mm, respectively. Dry weather prevailed during the previous forecasting period.

**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

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| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
| *Rabi* Maize/wheat | Grain forming/Milking stage | Farmers are advised to maintain proper soil moisture in the *rabi* maize/wheat crop which is in grain forming/Milking stage. Lack of soil moisture results adverse impact on crop yield. |
| Vegetables | Sowing | * Weeding is advised in vegetables crop. Give irrigation as per status of soil moisture. Regular monitoring is advised for insect-pest and disease attack.
* Complete the sowing of summer vegetable such as okra, pumpkin, cucumber, sponge gourd, ridge guard, bitter guard etc. is advised.
 |
| Elephant foot yam | Land preparation | Land preparation is advised for sowing of elephant foot yam. Application of 10-15 ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Green gram/Black gram | Land preparation/Sowing | Land preparation/ sowing of green gram *(mung bean)* & black gram *(urd)* is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. *Pusa Vishal, Samrat, SML-668, HUM-16 and Sona* varieties for *mung bean* and *Pant Urd-19 and 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 with a spacing of 30x10 cm plant to plant is advised. Before sowing, seed should be treated with *rhizobium* culture.  |
| Summer Maize | Sowing | Sowing of summer maize is advised at the earliest. 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.  |
| Sunflower | Sowing | Sowing of sunflower is advised upto 10th March. *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. Before sowing, seed should be treated with *Thiram* or C*aptaf*@2gm/kg of seed.  |
| 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. Ensure the proper soil moisture before sowing. |
| Onion | 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.
* Weeding is advised in onion crop. Give irrigation as per soil moisture status.
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**(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(6-10th March, 2019)**

 **(West Champaran)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6****March** | **7****March** | **8****March** | **9****March** | **10****March** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **27** | **27** | **28** | **28** | **29** | **-** |
| **Mini. T (°C)** | **13** | **13** | **14** | **14** | **15** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly cloudy sky**  |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **50** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Mustard/Potato | Harvesting | In view of dry weather in forecasting period, farmers are advised to harvest mustard and potato crop by giving top priority.  |
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