|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 16 | 17 | 17 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 5 | 5 | 5 | 6 | 5 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

**(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 16 | 17 | 18 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 5 | 5 | 5 | 6 | 6 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

**(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 16 | 17 | 17 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 7 | 7 | 7 | 7 | 8 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

 **(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 16 | 17 | 17 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 5 | 5 | 6 | 6 | 5 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

 **(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 17 | 17 | 18 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 5 | 6 | 8 | 8 | 8 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

**(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 17 | 17 | 17 | 18 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 5 | 5 | 6 | 7 | 6 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

 **(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 16 | 17 | 17 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 5 | 5 | 6 | 7 | 6 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

 **(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 17 | 17 | 17 | 18 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 6 | 5 | 6 | 7 | 5 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

 **(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 16 | 17 | 18 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 4 | 4 | 7 | 7 | 7 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

 **(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(Sitamadhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 15 | 16 | 16 | 17 | 18 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 4 | 5 | 7 | 7 | 7 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

 **(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 16 | 17 | 18 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 6 | 5 | 6 | 7 | 5 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

 **(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 16 | 17 | 17 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 5 | 5 | 5 | 6 | 5 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

 **(A. Sattar)**

**(Nodal Officer)**

|  |
| --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa** **Samastipur, Bihar -848 125** |
| **Bulletin No. 3****Date: Tuesday, 9 January, 2018**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.2°C and 4.2°C respectively. Average relative humidity was 92 percent at 0700 hrs. and 76 percent at 1400 hrs. Soil temperature at 5 cm depth was 9.1°C at 0700 hrs. and 13.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2km/hr, 1.0 hours and 0.5 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(10 - 14 January, 2018)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **10th** **January** | **11th****January** | **12th****January** | **13th****January** | **14th** **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 16 | 17 | 17 | Maximum temperature will remain between 15-17°C and the minimum between 5- 7°C. Cold day, cold wave and medium to dense morning fog to prevail. |
| Mini. T (°C) | 7 | 7 | 7 | 7 | 8 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 2 | 2 |  2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Potato | Tuber formation  | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Wheat | CRI stage | * Farmers are advised to give light irrigation in wheat crop which is in Crown Root Initiation (CRI) stage i.e. 21-25 days after sowing and apply nitrogenous fertilizer at the rate of 30 kg/ha.
* Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 liter water per hectare is advised. 2nd irrigation is suggested when the crop would be in 40-45 days stage.
 |
| Pea | Flowering | * Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if infestation is found high.
 |
| Mango | Pre-flowering stage | Farmers are advised not to apply irrigation and do intercutting in the mango and litchi orchards. If such operations are done, it will affect flowering process in the palnts. |
| Rabi onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised. Transplanting should be done in small beds with a size of 3x2cm or 5x2cm and with a spacing of 15 cm for line to line and 10cm for plant to plant. Deep transplanting should be avoided. Generally, onion crop requires light and frequent irrigation at short intervals.  |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give protein enriched diet to the animals. Administer Calcium in the feed for the animals. Do not keep animal in open at night. |

 **(A. Sattar)**

**(Nodal Officer)**