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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. 5****Date: Tuesday, 16 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 13.3°C and 7.5°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 10.3°C at 0700 hrs. and 13.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 1.5 hours and 0.4 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 18 | 18 | 19 | 18 | Maximum temperature will remain between 18-19°C and the minimum between 6- 7°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 7 | 6 | 7 | 7 | 7 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 80 | 80 | 80 | 80 | 80 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| 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)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**

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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.3°C and 7.5°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 10.3°C at 0700 hrs. and 13.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 1.5 hours and 0.4 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 17 | 17 | 17 | 18 | 18 | Maximum temperature will remain between 17-18°C and the minimum between 7- 9°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 8 | 7 | 8 | 9 | 9 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 2 | 2 | 2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

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| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**

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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.3°C and 7.5°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 10.3°C at 0700 hrs. and 13.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 1.5 hours and 0.4 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 17 | 19 | 19 | 19 | 19 | Maximum temperature will remain between 17-19°C and the minimum between 7- 9°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 7 | 8 | 9 | 8 | 7 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 66 | 62 | 61 | 61 | 71 |  |
| Min Relative Humidity (%) | 32 | 31 | 28 | 25 | 24 |  |
| Wind speed (kmph) | 5 | 9 | 8 | 6 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

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| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**

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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.3°C and 7.5°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 10.3°C at 0700 hrs. and 13.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 1.5 hours and 0.4 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 17 | 17 | 17 | 18 | 18 | Maximum temperature will remain between 17-18°C and the minimum between 7- 10°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 8 | 7 | 8 | 9 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 80 | 80 | 80 | 80 | 80 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 2 | 2 | 2 | 2 | 2 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

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| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**

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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 13.3°C and 7.5°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 10.3°C at 0700 hrs. and 13.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 1.5 hours and 0.4 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 17 | 17 | 17 | 18 | 18 | Maximum temperature will remain between 17-18°C and the minimum between 7- 9°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 8 | 7 | 8 | 9 | 9 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| 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)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**

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**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 17 | 18 | 18 | Maximum temperature will remain between 16-18°C and the minimum between 9- 10°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 10 | 9 | 10 | 9 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| 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)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
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| 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)**

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**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(Samastipur)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 17 | 18 | 18 | Maximum temperature will remain between 16-19°C and the minimum between 9- 10°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 10 | 9 | 10 | 9 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 80 | 80 | 80 | 80 | 80 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| 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)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
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| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**

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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. 5****Date: Tuesday, 16 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 13.3°C and 7.5°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 10.3°C at 0700 hrs. and 13.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 1.5 hours and 0.4 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 17 | 18 | 18 | 17 | 18 | Maximum temperature will remain between 17-18°C and the minimum between 7- 8°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 7 | 8 | 7 | 7 | 8 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 80 | 80 | 80 | 80 | 80 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| 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)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**

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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. 5****Date: Tuesday, 16 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 13.3°C and 7.5°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 10.3°C at 0700 hrs. and 13.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 1.5 hours and 0.4 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 17 | 18 | 18 | Maximum temperature will remain between 16-18°C and the minimum between 9- 10°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 10 | 9 | 10 | 9 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| 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)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**

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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. 5****Date: Tuesday, 16 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 13.3°C and 7.5°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 10.3°C at 0700 hrs. and 13.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 1.5 hours and 0.4 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(Sitamadhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 16 | 16 | 17 | 18 | 18 | Maximum temperature will remain between 16-18°C and the minimum between 9- 10°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 10 | 9 | 10 | 9 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| 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)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**

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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. 5****Date: Tuesday, 16 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 13.3°C and 7.5°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 10.3°C at 0700 hrs. and 13.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 1.5 hours and 0.4 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 17 | 18 | 18 | 17 | 18 | Maximum temperature will remain between 17-18°C and the minimum between 7- 8°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 7 | 8 | 7 | 7 | 8 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 80 | 80 | 80 | 80 | 80 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| 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)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**

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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. 5****Date: Tuesday, 16 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 13.3°C and 7.5°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 10.3°C at 0700 hrs. and 13.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 1.5 hours and 0.4 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 19 | 19 | 20 | 20 | 19 | Maximum temperature will remain between 19-20°C and the minimum 9°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 9 | 9 | 9 | 9 | 9 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 80 | 80 | 80 | 80 | 80 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| 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)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**

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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. 5****Date: Tuesday, 16 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 13.3°C and 7.5°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 10.3°C at 0700 hrs. and 13.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 1.5 hours and 0.4 mm respectively. Dry weather prevailed during this period. Dense morning fog and cold day conditions persisted across north Bihar region.

**Medium Range Weather Forecast**

 **(17 - 20 January, 2018)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **17** **January** | **18****January** | **19****January** | **20****January** | **21****January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 17 | 17 | 17 | 18 | 18 | Maximum temperature will remain between 17-18°C and the minimum between 7- 10°C. Cold day condition and medium to dense morning fog to continue for next 2-3 days |
| Mini. T (°C) | 8 | 7 | 8 | 9 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 80 | 80 | 80 | 80 | 80 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| 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)** |
| Mango and litchi | Pre-flowering |  Mango and litchi growers are advised not to do any interculturing operations in the orchards. Such operations may negatively impact the process of flowering. They are also advised not to apply any irrigation. If irrigation is given, it may lead to initiation of new leaves instead of inflorescence. |
| Potato | Tuber formation  | Farmers are advised to monitor their potato crop as prevailing weather condition is highly favourable for infestation of late blight disease in crop. Spraying of Diathane M-45 or Redomil @ 1.5 gram/liter of water is advised if infestation occurs. The crop may be irrigated frequently keeping in mind the moisture status in the field. |
| Rapeseed and mustard | Flowering | Farmers are advised to monitor rapeseed and mustard crop against white rust and alternaria blight. Application of Mancogeb@ 2.0 gm per litre of water is advised under condition of infestation on the crop. |
| Wheat | Tillering  | 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. |
| Rabi maize | Knee high to pre tasseling stage |  Extreme low temperature and cold wave has affected the *rabi* maize by turning the plant leaves yellowish. To negate the bad impact of low temperature, farmers are advised to apply irrigation in the crop field and top dressing of 25-30 kg N/ha is advised.  |
| 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)**