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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. 1**  **Date: Tuesday, 2 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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 18 | 19 | 19 | 19 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 7 | 6 | 5 | 5 | 5 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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** | | |
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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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 19 | 19 | 18 | 19 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 7 | 5 | 6 | 5 | 6 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 18 | 19 | 19 | 19 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 5 | 6 | 7 | 6 | 5 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 19 | 18 | 19 | 19 | 19 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 6 | 5 | 7 | 5 | 6 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 18 | 19 | 18 | 19 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 7 | 5 | 6 | 6 | 5 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 19 | 18 | 19 | 18 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 6 | 7 | 5 | 5 | 6 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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**

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**Medium Range Weather Forecast**

**(3 - 7 January, 2018)**

**(Samastipur)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 18 | 19 | 19 | 19 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 7 | 6 | 5 | 5 | 5 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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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| **Bulletin No. 1**  **Date: Tuesday, 2 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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 19 | 19 | 18 | 19 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 6 | 7 | 5 | 6 | 5 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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. 1**  **Date: Tuesday, 2 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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 19 | 18 | 18 | 19 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 7 | 6 | 6 | 5 | 6 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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. 1**  **Date: Tuesday, 2 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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(Sitamadhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **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 5- 7°C. Cold wave condition |
| Mini. T (°C) | 7 | 6 | 6 | 5 | 6 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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. 1**  **Date: Tuesday, 2 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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 19 | 18 | 18 | 19 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 7 | 5 | 5 | 6 | 6 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 18 | 18 | 18 | 19 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 7 | 5 | 5 | 6 | 6 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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** | | |
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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 15.6°C and 7.9°C respectively. Average relative humidity was 95 percent at 0700 hrs. and 82 percent at 1400 hrs. Soil temperature at 5 cm depth was 12.5°C at 0700 hrs. and 17.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 0.5 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**

**(3 - 7 January, 2018)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **3rd**  **January** | **4th**  **January** | **5th**  **January** | **6th**  **January** | **7th**  **January** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 18 | 19 | 18 | 18 | 19 | Maximum temperature will remain between 18-19°C and the minimum between 5- 7°C. Cold wave condition |
| Mini. T (°C) | 7 | 5 | 5 | 6 | 5 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 95 | 90 | 90 |  |
| Min Relative Humidity (%) | 60 | 65 | 60 | 60 | 60 |  |
| Wind speed (kmph) | 4 | 4 | 6 | 6 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly |  |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Vegetables | Flowering/  Fruiting | Weeding is advised in vegetables. Under condition of current cold day and low temperature, light irrigation is advised in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Potato | Tuber formation | Regular monitoring is advised for spread of fungi borne blight disease in potato. Spraying of Mencozeb@2.0 gram/liter of water is advised if infestation occurs. Provide irrigation to potato crop at an interval of 10-15 days. |
| Pea | Flowering/  Friiting | * Regular monitoring is advised for 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 symptoms of disease are found. * Regular monitoring is advised for infestation of pod borer in pea .If infestation occurs; installation of Pheromone trap @ 3-4 traps per acre is advised. |
| Pigeon Pea | Flowering | Regular monitoring is advised for infestation of pod borer insects in pigeon pea crop, which reaches in flowering /pod formation stages. If infestation is found high, spraying of Cartap hydrochloride @ 1.5ml/L of water is advised. |
| 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 liters of water per hectare is advised. * 2nd irrigation is advised in the crop, which is in 40-45 days stage. Application of 30kg nitrogen per hectare is also advised after irrigation. |
| 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)**