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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. 99****Date: Friday, 22 December, 2017**  | **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 23.7°C and 12.2°C respectively. Average relative humidity was 94 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 14.3°C at 0700 hrs. and 21.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.2km/hr, 5.6 hours and 1.2 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 25 | 26 | 25 | 25 | 26 | Maximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 13 | 12 | 11 | 11 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals. |

 **(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. 99****Date: Friday, 22 December, 2017**  | **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 23.7°C and 12.2°C respectively. Average relative humidity was 94 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 14.3°C at 0700 hrs. and 21.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.2km/hr, 5.6 hours and 1.2 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 26 | 27 | 27 | 26 | 26 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 13 | 13 | 12 | 12 | 11 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals. |

**(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. 99****Date: Friday, 22 December, 2017**  | **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 23.7°C and 12.2°C respectively. Average relative humidity was 94 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 14.3°C at 0700 hrs. and 21.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.2km/hr, 5.6 hours and 1.2 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 25 | 26 | 26 | 27 | 27 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 12 | 13 | 12 | 11 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | * In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals.
 |

 **(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. 99****Date: Friday, 22 December, 2017**  | **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 23.7°C and 12.2°C respectively. Average relative humidity was 94 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 14.3°C at 0700 hrs. and 21.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.2km/hr, 5.6 hours and 1.2 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 25 | 26 | 26 | 27 | 27 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 12 | 13 | 12 | 11 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals. |

 **(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 23.7°C and 12.2°C respectively. Average relative humidity was 94 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 14.3°C at 0700 hrs. and 21.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.2km/hr, 5.6 hours and 1.2 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 26 | 27 | 27 | 28 | 28 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 12 | 13 | 12 | 11 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | * In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals.
 |

**(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 23.7°C and 12.2°C respectively. Average relative humidity was 94 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 14.3°C at 0700 hrs. and 21.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.2km/hr, 5.6 hours and 1.2 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 26 | 27 | 27 | 28 | 28 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 14 | 15 | 14 | 13 | 12 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | * In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals.
 |

 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 26 | 27 | 27 | 28 | 28 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 12 | 13 | 12 | 11 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
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| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals. |

 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 26 | 27 | 27 | 28 | 28 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 13 | 14 | 13 | 12 | 11 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals. |

 **(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. 99****Date: Friday, 22 December, 2017**  | **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 23.7°C and 12.2°C respectively. Average relative humidity was 94 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 14.3°C at 0700 hrs. and 21.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.2km/hr, 5.6 hours and 1.2 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 26 | 27 | 27 | 28 | 28 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 14 | 15 | 14 | 13 | 12 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals. |

 **(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. 99****Date: Friday, 22 December, 2017**  | **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 23.7°C and 12.2°C respectively. Average relative humidity was 94 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 14.3°C at 0700 hrs. and 21.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.2km/hr, 5.6 hours and 1.2 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(Sitamadhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 26 | 27 | 27 | 28 | 28 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 12 | 13 | 12 | 11 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals. |

 **(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. 99****Date: Friday, 22 December, 2017**  | **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 23.7°C and 12.2°C respectively. Average relative humidity was 94 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 14.3°C at 0700 hrs. and 21.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.2km/hr, 5.6 hours and 1.2 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 25 | 26 | 26 | 27 | 27 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 12 | 13 | 12 | 11 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals. |

 **(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. 99****Date: Friday, 22 December, 2017**  | **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 23.7°C and 12.2°C respectively. Average relative humidity was 94 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 14.3°C at 0700 hrs. and 21.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.2km/hr, 5.6 hours and 1.2 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 27 | 28 | 28 | 29 | 29 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 13 | 14 | 15 | 14 | 13 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals. |

 **(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. 99****Date: Friday, 22 December, 2017**  | **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 23.7°C and 12.2°C respectively. Average relative humidity was 94 percent at 0700 hrs. and 69 percent at 1400 hrs. Soil temperature at 5 cm depth was 14.3°C at 0700 hrs. and 21.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.2km/hr, 5.6 hours and 1.2 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

 **(23 - 27 December, 2017)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **23th** **December** | **24th****December** | **25th****December** | **26th** **December** | **27th** **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 27 | 25 | 25 | 26 | 26 | Dry WeatherMaximum temperature will remain between 17-22°C and the minimum between 10-13°C. |
| Mini. T (°C) | 12 | 13 | 12 | 11 | 10 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 95 | 95 | 90 | 90 | 90 |  |
| Min Relative Humidity (%) | 65 | 60 | 60 | 55 | 55 |  |
| Wind speed (kmph) | 4 | 6 | 6 | 4 | 4 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Wheat | Early vegetative stage/tillering | * If the attack of termite is observed in the wheat field, spray of Chloropyriphos 20 EC@ 2litres mixed with 20-25 kg sand per acre is advised.
* 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.
 |
| Marigold  | Flowering | To protect the marigold flowers against blight disease, spray of *Saaf* @1.5 gm per liter of water is advised.  |
| Mango | Pre-flowering stage | Before the commencement of inflorescence in mango trees, spray of Imidachlor @0.5 ml or Propinophos @1.0 ml per liter of water is advised in the tree caonopies. |
| Vegetables | - | Inter culturing is advised in vegetables crops and apply irrigation as per moisture condition in the fields. Application of 2% urea solution in the pea crop is advised for better yield. |
| Animals | - | In view of low temperature and cold, farmers are advised to take proper care of milch animals in terms of shelter and feeds. To maintain milk production, animals should be given medicines such as Fatomax and M-Power and also give them a mixture of minerals and vitamins @50 gm per animal every day. Give probiotics to the animals to maintain proper digestion. Ample amount of fresh and clean water should also be given to the animals. |

 **(A. Sattar)**

**(Nodal Officer)**