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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. 97**  **Date: Friday, 15 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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 27 | 25 | 24 | 24 | 24 | Maximum temperature will remain between 24-27°C and the minimum between8-11°C. |
| Mini. T (°C) | 11 | 9 | 9 | 8 | 8 |
| Cloud cover (okta) | 2 | 3 | 2 | 5 | 2 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(A. Sattar)**

**(Nodal Office)**

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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. 97**  **Date: Friday, 15 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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 27 | 25 | 26 | 26 | 26 | Maximum temperature will remain between 25-28°C and the minimum between 9-12°C. |
| Mini. T (°C) | 10 | 9 | 11 | 10 | 11 |
| Cloud cover (okta) | 2 | 3 | 2 | 5 | 2 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(A. Sattar)**

**(Nodal Office)**

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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. 97**  **Date: Friday, 15 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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 28 | 26 | 26 | 26 | 26 | Maximum temperature will remain between 25-28°C and the minimum between 9-12°C. |
| Mini. T (°C) | 11 | 10 | 10 | 10 | 11 |
| Cloud cover (okta) | 2 | 3 | 2 | 5 | 2 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(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. 97**  **Date: Friday, 15 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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 28 | 26 | 25 | 25 | 25 | Maximum temperature will remain between 25-28°C and the minimum between 9-12°C. |
| Mini. T (°C) | 11 | 10 | 10 | 10 | 11 |
| Cloud cover (okta) | 3 | 1 | 2 | 4 | 4 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 27 | 26 | 27 | 27 | 27 | Maximum temperature will remain between 25-28°C and the minimum between 9-12°C. |
| Mini. T (°C) | 10 | 11 | 11 | 11 | 11 |
| Cloud cover (okta) | 2 | 2 | 1 | 3 | 3 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(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**

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**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 28 | 26 | 25 | 25 | 25 | Maximum temperature will remain between 25-28°C and the minimum between 9-12°C. |
| Mini. T (°C) | 12 | 10 | 10 | 10 | 11 |
| Cloud cover (okta) | 3 | 2 | 2 | 4 | 3 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 27 | 25 | 24 | 24 | 24 | Maximum temperature will remain between 24-27°C and the minimum between 8-11°C. |
| Mini. T (°C) | 11 | 9 | 9 | 8 | 8 |
| Cloud cover (okta) | 2 | 3 | 2 | 5 | 2 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(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. 97**  **Date: Friday, 15 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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 28 | 27 | 25 | 25 | 25 | Maximum temperature will remain between 25-28°C and the minimum between 9-12°C. |
| Mini. T (°C) | 13 | 10 | 10 | 10 | 10 |
| Cloud cover (okta) | 3 | 2 | 2 | 5 | 3 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(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. 97**  **Date: Friday, 15 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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 28 | 26 | 25 | 26 | 25 | Maximum temperature will remain between 25-28°C and the minimum between 9-12°C. |
| Mini. T (°C) | 10 | 9 | 10 | 10 | 11 |
| Cloud cover (okta) | 3 | 2 | 1 | 3 | 3 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(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. 97**  **Date: Friday, 15 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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(Sitamadhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 27 | 26 | 26 | 26 | 26 | Maximum temperature will remain between 25-28°C and the minimum between 9-12°C. |
| Mini. T (°C) | 9 | 9 | 10 | 10 | 11 |
| Cloud cover (okta) | 3 | 2 | 1 | 3 | 2 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(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. 97**  **Date: Friday, 15 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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 28 | 27 | 25 | 25 | 25 | Maximum temperature will remain between 25-28°C and the minimum between 9-12°C. |
| Mini. T (°C) | 12 | 10 | 10 | 10 | 11 |
| Cloud cover (okta) | 3 | 2 | 2 | 4 | 4 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(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. 97**  **Date: Friday, 15 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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 28 | 26 | 25 | 25 | 25 | Maximum temperature will remain between 25-28°C and the minimum between 9-12°C. |
| Mini. T (°C) | 12 | 10 | 10 | 10 | 10 |
| Cloud cover (okta) | 2 | 2 | 1 | 5 | 3 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(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. 97**  **Date: Friday, 15 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 27.4°C and 11.9°C respectively. Average relative humidity was 91 percent at 0700 hrs. and 59 percent at 1400 hrs. Soil temperature at 5 cm depth was 13.9°C at 0700 hrs. and 22.9°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.7km/hr, 6.2 hours and 2.3 mm respectively. Dry weather prevailed during this period. Light morning fog persisted upto 7-8 AM across north Bihar region.

**Medium Range Weather Forecast**

**(16 - 20 December, 2017)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16th**  **December** | **17th**  **December** | **18th**  **December** | **19th**  **December** | **20th**  **December** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Dry Weather |
| Max. T (°C) | 29 | 27 | 26 | 27 | 26 | Maximum temperature will remain between 25-28°C and the minimum between 9-12°C. |
| Mini. T (°C) | 10 | 9 | 9 | 27 | 26 |
| Cloud cover (okta) | 2 | 0 | 1 | 2 | 2 | Morning fog |
| Max Relative Humidity (%) | 60 | 60 | 60 | 60 | 60 |  |
| Min Relative Humidity (%) | 20 | 20 | 20 | 20 | 20 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | westerly | westerly | westerly | westerly | westerly | Easterly/ westerly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Planting | Potato crop, which is planted one month back should be given irrigation. Apply 30 kg N/ha after the application of irrigation. |
| Wheat | Sowing | * Continue the sowing of late varieties of wheat. *PBW-373, HD-2285, HW-2045, HUW-234, WR-544, DBW-14, HD-2643, NW-2036* varieties are recommended for sowing under late condition . Seed should be treated with Carbendazim or Thiram @ 2-2.5 g per kilogram of seed. Application of 40 kg nitrogen, 40 kg phosphorus and 20 kg potash per hectare is advised before sowing. Seed rate @125-150 kg/hectare is advised. * Farmers are advised to give irrigation in early sown wheat crop which reaches Crown Root Initiation (CRI) stage (21-25 days after sowing). Application of 30kg nitrogen per hectare is advised 2-3 days after irrigation. |
| Vegetables | - | Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per soil moisture. |
| Rabi onion | Sowing | Planting of onion is advised. Application of 20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur is advised during land preparation. |
| Mustard  *(Rai)* | Sowing | Complete the sowing of late sown mustard *rai*. *Rajendra rai picheti (RAURD-9403), Rajendra anukul (RAURD-1002) and Rajendra suflam (RAURDL 02-01)* varieties are suitable for late sowing in this region. |
| Sugarcane | Planting | *COP-9301, COP-2061, COP-112, BO-91, BO-153, BO-154* varieties are recommended for planting in north Bihar region. Seed treatment with Carbendazim@1gm/liter of water is advised for 10 minutes before planting. |
| Animals |  | Farmers are advised to provide vaccination to milch animals and baffalows against foot and mouth disease. Against Degnala disease, administer mineral mixture@50 gm to adult animals and 20 gm to calves every day. |

**(A. Sattar)**

**(Nodal Officer)**