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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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

**(02-06 January, 2019)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **23** | **24** | **24** | **24** | **24** | **-** |
| **Mini. T (°C)** | **9** | **9** | **9** | **10** | **10** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
* Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per status of soil moisture.
 |
| 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.
 |
| Maize | Vegetative | In 50-55 days old maize crop, farmers are advised to top dress 50 kg nitrogen/hectare upon applying irrigation and subsequently earthing–up is advised. |
| Potato | Vegetative | Weeding and earthing-up are advised in potato crop. Give light irrigation based on moisture condition of the field. Regular monitoring of blight disease is advised. |
| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
* Transplanting should be done in small beds with a size of 3x2 m or 5x2 m and with a spacing of 15 cm line to line and 10cm plant to plant. Deep transplanting should be avoided.
* During land preparation, application of 15-20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised.
 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
* Regular monitoring is advised against infestation of powdery mildew disease in early sown pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if disease infestation is found.
 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

**(02-06 January, 2019)**

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **23** | **24** | **24** | **24** | **24** | **-** |
| **Mini. T (°C)** | **8** | **8** | **9** | **9** | **9** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
* Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per status of soil moisture.
 |
| 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.
 |
| Maize | Vegetative | In 50-55 days old maize crop, farmers are advised to top dress 50 kg nitrogen/hectare upon applying irrigation and subsequently earthing –up is advised. |
| Potato | Vegetative | Weeding and earthing-up are advised in potato crop. Give light irrigation based on moisture condition of the field. Regular monitoring of blight disease is advised. |
| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
* Transplanting should be done in small beds with a size of 3x2 m or 5x2 m and with a spacing of 15 cm line to line and 10cm plant to plant. Deep transplanting should be avoided.
* During land preparation, application of 15-20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised.
 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
* Regular monitoring is advised against infestation of powdery mildew disease in early sown pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if disease infestation is found.
 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

 **(02-06 January, 2019)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **22** | **22** | **23** | **23** | **23** | **-** |
| **Mini. T (°C)** | **9** | **9** | **9** | **9** | **10** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
* Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per status of soil moisture.
 |
| 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.
 |
| Maize | Vegetative | In 50-55 days old maize crop, farmers are advised to top dress 50 kg nitrogen/hectare upon applying irrigation and subsequently earthing –up is advised. |
| Potato | Vegetative | Weeding and earthing-up are advised in potato crop. Give light irrigation based on moisture condition of the field. Regular monitoring of blight disease is advised. |
| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
* Transplanting should be done in small beds with a size of 3x2 m or 5x2 m and with a spacing of 15 cm line to line and 10cm plant to plant. Deep transplanting should be avoided.
* During land preparation, application of 15-20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised.
 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
* Regular monitoring is advised against infestation of powdery mildew disease in early sown pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if disease infestation is found.
 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

**(02-06 January, 2019)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **22** | **23** | **23** | **23** | **23** | **-** |
| **Mini. T (°C)** | **9** | **10** | **10** | **10** | **10** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
* Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per status of soil moisture.
 |
| 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.
 |
| Maize | Vegetative | In 50-55 days old maize crop, farmers are advised to top dress 50 kg nitrogen/hectare upon applying irrigation and subsequently earthing –up is advised. |
| Potato | Vegetative | Weeding and earthing-up are advised in potato crop. Give light irrigation based on moisture condition of the field. Regular monitoring of blight disease is advised. |
| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
* Transplanting should be done in small beds with a size of 3x2 m or 5x2 m and with a spacing of 15 cm line to line and 10cm plant to plant. Deep transplanting should be avoided.
* During land preparation, application of 15-20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised.
 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
* Regular monitoring is advised against infestation of powdery mildew disease in early sown pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if disease infestation is found.
 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

**(02-06 January, 2019)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **23** | **23** | **23** | **23** | **24** | **-** |
| **Mini. T (°C)** | **9** | **10** | **10** | **10** | **10** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
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 |
| Wheat | Tillering | * Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 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.
 |
| Maize | Vegetative | In 50-55 days old maize crop, farmers are advised to top dress 50 kg nitrogen/hectare upon applying irrigation and subsequently earthing –up is advised. |
| Potato | Vegetative | Weeding and earthing-up are advised in potato crop. Give light irrigation based on moisture condition of the field. Regular monitoring of blight disease is advised. |
| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
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 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
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 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

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**Medium Range Weather Forecast**

**(02-06 January, 2019)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **22** | **22** | **23** | **23** | **23** | **-** |
| **Mini. T (°C)** | **9** | **9** | **10** | **10** | **10** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
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| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
* Transplanting should be done in small beds with a size of 3x2 m or 5x2 m and with a spacing of 15 cm line to line and 10cm plant to plant. Deep transplanting should be avoided.
* During land preparation, application of 15-20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised.
 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
* Regular monitoring is advised against infestation of powdery mildew disease in early sown pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if disease infestation is found.
 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

**(02-06 January, 2019)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **22** | **23** | **23** | **23** | **23** | **-** |
| **Mini. T (°C)** | **8** | **8** | **8** | **9** | **9** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
* Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per status of soil moisture.
 |
| 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.
 |
| Maize | Vegetative | In 50-55 days old maize crop, farmers are advised to top dress 50 kg nitrogen/hectare upon applying irrigation and subsequently earthing –up is advised. |
| Potato | Vegetative | Weeding and earthing-up are advised in potato crop. Give light irrigation based on moisture condition of the field. Regular monitoring of blight disease is advised. |
| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
* Transplanting should be done in small beds with a size of 3x2 m or 5x2 m and with a spacing of 15 cm line to line and 10cm plant to plant. Deep transplanting should be avoided.
* During land preparation, application of 15-20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised.
 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
* Regular monitoring is advised against infestation of powdery mildew disease in early sown pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if disease infestation is found.
 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

**(02-06 January, 2019)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **22** | **23** | **23** | **23** | **23** | **-** |
| **Mini. T (°C)** | **9** | **10** | **10** | **10** | **10** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
* Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per status of soil moisture.
 |
| 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.
 |
| Maize | Vegetative | In 50-55 days old maize crop, farmers are advised to top dress 50 kg nitrogen/hectare upon applying irrigation and subsequently earthing –up is advised. |
| Potato | Vegetative | Weeding and earthing-up are advised in potato crop. Give light irrigation based on moisture condition of the field. Regular monitoring of blight disease is advised. |
| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
* Transplanting should be done in small beds with a size of 3x2 m or 5x2 m and with a spacing of 15 cm line to line and 10cm plant to plant. Deep transplanting should be avoided.
* During land preparation, application of 15-20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised.
 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
* Regular monitoring is advised against infestation of powdery mildew disease in early sown pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if disease infestation is found.
 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

**(02-06 January, 2019)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **22** | **22** | **22** | **22** | **22** | **-** |
| **Mini. T (°C)** | **9** | **9** | **9** | **9** | **10** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
* Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per status of soil moisture.
 |
| 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.
 |
| Maize | Vegetative | In 50-55 days old maize crop, farmers are advised to top dress 50 kg nitrogen/hectare upon applying irrigation and subsequently earthing –up is advised. |
| Potato | Vegetative | Weeding and earthing-up are advised in potato crop. Give light irrigation based on moisture condition of the field. Regular monitoring of blight disease is advised. |
| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
* Transplanting should be done in small beds with a size of 3x2 m or 5x2 m and with a spacing of 15 cm line to line and 10cm plant to plant. Deep transplanting should be avoided.
* During land preparation, application of 15-20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised.
 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
* Regular monitoring is advised against infestation of powdery mildew disease in early sown pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if disease infestation is found.
 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

**(02-06 January, 2019)**

 **(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **22** | **22** | **23** | **23** | **23** | **-** |
| **Mini. T (°C)** | **9** | **9** | **9** | **9** | **10** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
* Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per status of soil moisture.
 |
| 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.
 |
| Maize | Vegetative | In 50-55 days old maize crop, farmers are advised to top dress 50 kg nitrogen/hectare upon applying irrigation and subsequently earthing –up is advised. |
| Potato | Vegetative | Weeding and earthing-up are advised in potato crop. Give light irrigation based on moisture condition of the field. Regular monitoring of blight disease is advised. |
| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
* Transplanting should be done in small beds with a size of 3x2 m or 5x2 m and with a spacing of 15 cm line to line and 10cm plant to plant. Deep transplanting should be avoided.
* During land preparation, application of 15-20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised.
 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
* Regular monitoring is advised against infestation of powdery mildew disease in early sown pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if disease infestation is found.
 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

**(02-06 January, 2019)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **22** | **22** | **22** | **22** | **22** | **-** |
| **Mini. T (°C)** | **9** | **10** | **9** | **9** | **10** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
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 |
| Wheat | Tillering | * Farmers are advised to remove weeds from wheat crop, which is in 30-35 days stage. For this purpose, spraying of solution of 33 gm Sulfosulfuron and 20 Metsulfuron in 500 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.
 |
| Maize | Vegetative | In 50-55 days old maize crop, farmers are advised to top dress 50 kg nitrogen/hectare upon applying irrigation and subsequently earthing –up is advised. |
| Potato | Vegetative | Weeding and earthing-up are advised in potato crop. Give light irrigation based on moisture condition of the field. Regular monitoring of blight disease is advised. |
| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
* Transplanting should be done in small beds with a size of 3x2 m or 5x2 m and with a spacing of 15 cm line to line and 10cm plant to plant. Deep transplanting should be avoided.
* During land preparation, application of 15-20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised.
 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
* Regular monitoring is advised against infestation of powdery mildew disease in early sown pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if disease infestation is found.
 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

**(02-06 January, 2019)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **23** | **23** | **24** | **24** | **24** | **-** |
| **Mini. T (°C)** | **9** | **10** | **10** | **10** | **10** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **45** | **45** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
* Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per status of soil moisture.
 |
| 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.
 |
| Maize | Vegetative | In 50-55 days old maize crop, farmers are advised to top dress 50 kg nitrogen/hectare upon applying irrigation and subsequently earthing –up is advised. |
| Potato | Vegetative | Weeding and earthing-up are advised in potato crop. Give light irrigation based on moisture condition of the field. Regular monitoring of blight disease is advised. |
| Rabi onion | Transplanting | * Transplanting of 50-55 days old onion seedlings is advised.
* Transplanting should be done in small beds with a size of 3x2 m or 5x2 m and with a spacing of 15 cm line to line and 10cm plant to plant. Deep transplanting should be avoided.
* During land preparation, application of 15-20 ton/ha FYM, 60kg nitrogen, 80 kg phosphorus, 80 kg potash and 40kg sulphur per hectare is advised.
 |
| Pea | Flowering | * Spraying of 2 % urea is advised for proper growth of pods in pea crop.
* Regular monitoring is advised against infestation of powdery mildew disease in early sown pea crop. Farmers are advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3gm per litre of water, if disease infestation is found.
 |
| Animal care | - | Low temperature may adversely affect the milk production of milch animals. Farmers are advised to give 50 grams salt and 50-100 gms mineral mixture daily with animal feed to keep them healthy. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.  |

**(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,1st January , 2019** | **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 21.2°C and 4.6°C, respectively. Average relative humidity was 85 percent at 0700 hrs. and 44 percent at 1400 hrs. Soil temperature at 5 cm depth was 8.7°C at 0700 hrs. and 19.5°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.5km/hr, 5.0hours and 1.8mm, respectively. Dry weather prevailed during the previous forecasting period. Early morning fog was observed.

**Medium Range Weather Forecast**

**(02-06 January, 2019)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **02** **January** | **03****January** | **04** **January** | **05****January** | **06****January** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **22** | **22** | **22** | **23** | **23** | **-** |
| **Mini. T (°C)** | **9** | **9** | **9** | **9** | **10** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Clear sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly**  | **Easterly** | **Easterly** | **Westerly/ Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Vegetables | Fruiting | * Regular monitoring is advised for blight disease in vegetables crops. Spraying of Diethane M-45@2.5 gram/liter of water is advised, if disease infestation is observed.
* Monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised. If insect population is observed to be above ETL, then spraying of Spinosad 1.0 ml/4 litre of water is advised. Infested fruits and shoots should be collected and buried before spraying.
* Weeding is advised in vegetables. Provide light irrigation in vegetable crops such as cauliflower, cabbage, tomato, pea, chilli, brinjal etc as per status of soil moisture.
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**(A. Sattar)**

**(Nodal Officer)**