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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. 33**  **Date: Tuesday, 15 May, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **2** | **0** | **2** | **Light Rainfall** |
| **Max. T (°C)** | **34** | **33** | **34** | **34** | **35** | **Maximum temperature will remain between 33-35°C and the minimum between 23- 25°C.** |
| **Mini. T (°C)** | **23** | **24** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **2** | **1** | **3** | **4** | **6** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 33**  **Date: Tuesday, 15 May, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **33** | **33** | **34** | **34** | **35** | **Maximum temperature will remain between 33-35°C and the minimum between 23- 25°C.** |
| **Mini. T (°C)** | **23** | **24** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **2** | **1** | **3** | **4** | **6** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 33**  **Date: Tuesday, 15 May, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **5** | **Light Rainfall** |
| **Max. T (°C)** | **34** | **33** | **34** | **35** | **36** | **Maximum temperature will remain between 33-36°C and the minimum between 24- 25°C.** |
| **Mini. T (°C)** | **24** | **24** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **3** | **0** | **0** | **1** | **5** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 33**  **Date: Tuesday, 15 May, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **35** | **35** | **35** | **36** | **36** | **Maximum temperature will remain between 35-36°C and the minimum between 24- 25°C.** |
| **Mini. T (°C)** | **24** | **24** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **3** | **0** | **1** | **1** | **3** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **6** | **0** | **0** | **0** | **5** | **Light Rainfall** |
| **Max. T (°C)** | **32** | **33** | **34** | **35** | **35** | **Maximum temperature will remain between 32-35°C and the minimum between 23- 25°C.** |
| **Mini. T (°C)** | **23** | **24** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **3** | **0** | **0** | **2** | **5** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
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**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **34** | **34** | **34** | **35** | **35** | **Maximum temperature will remain between 34-35°C and the minimum between 23- 25°C.** |
| **Mini. T (°C)** | **24** | **23** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **3** | **0** | **1** | **2** | **5** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 33**  **Date: Tuesday, 15 May, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **33** | **33** | **34** | **34** | **35** | **Maximum temperature will remain between 33-35°C and the minimum between 23- 25°C.** |
| **Mini. T (°C)** | **23** | **24** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **2** | **1** | **3** | **4** | **6** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 33**  **Date: Tuesday, 15 May, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **36** | **36** | **36** | **38** | **38** | **Maximum temperature will remain between 36-38°C and the minimum between 24- 26°C.** |
| **Mini. T (°C)** | **24** | **24** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **0** | **0** | **0** | **3** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **80** | **70** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 33**  **Date: Tuesday, 15 May, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **32** | **33** | **34** | **34** | **35** | **Maximum temperature will remain between 32-35°C and the minimum between 23- 25°C.** |
| **Mini. T (°C)** | **23** | **24** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **3** | **0** | **0** | **2** | **5** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 33**  **Date: Tuesday, 15 May, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **2** | **Light rainfall** |
| **Max. T (°C)** | **32** | **33** | **34** | **35** | **36** | **Maximum temperature will remain between 32-36°C and the minimum between 23- 25°C.** |
| **Mini. T (°C)** | **23** | **24** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **3** | **0** | **0** | **2** | **5** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 33**  **Date: Tuesday, 15 May, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **36** | **36** | **36** | **38** | **38** | **Maximum temperature will remain between 36-38°C and the minimum between 24- 26°C.** |
| **Mini. T (°C)** | **24** | **24** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **0** | **0** | **0** | **3** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **80** | **70** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **35** | **35** | **36** | **37** | **38** | **Maximum temperature will remain between 35-38°C and the minimum between 24- 26°C.** |
| **Mini. T (°C)** | **24** | **25** | **25** | **25** | **26** |
| **Cloud cover (okta)** | **2** | **0** | **1** | **2** | **5** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **20** | **20** | **20** | **20** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
| Ginger | Sowing | Sowing of ginger is advised from 15th May. *Maran* and *Nadia* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cow dung per hectare is advised before sowing. At the time of final land preparation, 30-40 kg nitrogen,50 kg phosphorus,80-100 kg potassium 20-25 kg zinc sulphate and 10-12 kg borax per hectare is advised. The size of the seed should be around 20-30 gram, which contains 3-4 buds. Seed materials should be sown at a distance of 30X20 cm. Seed treatment with solution of 0.2% Redomil per Kg of seed is advised. |
| Paddy | Land preparation | Land preparation is advised for sowing of seeds in nursery. During land preparation, application of cow dung is suggested for good and healthy seedlings. Farmers may start the nursery sowing of long duration paddy from 25th May. |
| Animal | Vaccination | Farmers are advised to administer vaccination to their cattle against Foot and Mouth disease ten days after providing the medicine for worms. Give 50 gm common salt and 50 gm mineral mixture everyday to animals. |

**A. Sattar)**

**(Nodal Officer)**

|  |  |  |
| --- | --- | --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 33**  **Date: Tuesday, 15 May, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** | **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.7°C and 22.4°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 64 percent at 1400 hrs. Soil temperature at 5 cm depth was 25.9°C at 0700 hrs. and 33.7°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 8.6 km/hr, 7.2 hours and 5.5 mm respectively. A severe thunderstorm lashed several districts of north Bihar during the forecasted period. About 46.2 mm rainfall occurred at Pusa, Samastipur.

**Medium Range Weather Forecast**

**(16 -20 May, 2018)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **16 May** | **17 May** | **18 May** | **19 May** | **20 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **2** | **2** | **2** | **5** | **Light rainfall** |
| **Max. T (°C)** | **35** | **34** | **35** | **35** | **36** | **Maximum temperature will remain between 34-36°C and the minimum between 24- 25°C.** |
| **Mini. T (°C)** | **24** | **24** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **2** | **1** | **1** | **1** | **2** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **30** | **30** | **30** | **30** | **30** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Fodder crops | Sowing | In the last few days there has been good rainfall at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of fodder crops such as *sorghum, maize* and *bajra.* |
| Tomato | Fruiting | Monitoring is advised for infestation of fruit borer in tomato crop. If infestation of fruit borer is found, installation of bird perches in tomato crop is advised. Hand picking of damaged fruit and burying are also advised. Spraying of Spinosad 48EC@1ml/4 litres of water is advised under clear sky condition, if pest population reaches ETL. |
| Turmeric | Sowing | During the last several days or so, good rainfall has occurred at many places in the North Bihar districts. This has brought adequate moisture in the soil which may be utilized for sowing of turmeric crop from 15th May. *Rajendra Sonia* and *Rajendra Sonali* varieties are recommended for sowing in North Bihar. Application of 25-30 tones of cowdung per hectare is advised before sowing. At the time of final land preparation, 60-75 kg nitrogen, 50-60 kg phosphorus, 100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised. The size of the planting material (seed) should be around 30-35 gram, which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6 cm. Seed treatment with 2.5 gram Endophyl M-45 plus 0.1% Bavestin per Kg of seed is advised. Sowing should be done after half an hour of seed treatment. |
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**A. Sattar)**

**(Nodal Officer)**