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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. 32**  **Date: Friday, 11 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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **2** | **2** | **Light Rainfall** |
| **Max. T (°C)** | **38** | **38** | **38** | **37** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between 23- 25°C.** |
| **Mini. T (°C)** | **24** | **24** | **25** | **24** | **23** |
| **Cloud cover (okta)** | **0** | **3** | **5** | **6** | **4** | **cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **75** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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. 32**  **Date: Friday, 11 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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **9** | **0** | **0** | **Light Rainfall** |
| **Max. T (°C)** | **36** | **36** | **37** | **36** | **37** | **Maximum temperature will remain between 36-37°C and the minimum between 24- 26°C.** |
| **Mini. T (°C)** | **24** | **25** | **25** | **25** | **26** |
| **Cloud cover (okta)** | **0** | **1** | **5** | **4** | **3** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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. 32**  **Date: Friday, 11 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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **0** | **0** | **Partially Rainfall** |
| **Max. T (°C)** | **38** | **37** | **35** | **36** | **36** | **Maximum temperature will remain between 35-38°C and the minimum between 23- 25°C.** |
| **Mini. T (°C)** | **25** | **24** | **23** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **2** | **8** | **3** | **2** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **80** | **80** | **70** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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. 32**  **Date: Friday, 11 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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **37** | **36** | **35** | **36** | **36** | **Maximum temperature will remain between 38-40°C and the minimum between 24- 26°C.** |
| **Mini. T (°C)** | **25** | **26** | **24** | **23** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **7** | **3** | **2** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **80** | **80** | **70** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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. 32**  **Date: Friday, 11 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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **0** | **0** | **Rainfall** |
| **Max. T (°C)** | **35** | **36** | **35** | **34** | **35** | **Maximum temperature will remain between 34-36°C and the minimum between 23- 24°C.** |
| **Mini. T (°C)** | **24** | **24** | **23** | **23** | **23** |
| **Cloud cover (okta)** | **0** | **2** | **7** | **6** | **3** | **cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **60** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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. 32**  **Date: Friday, 11 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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **37** | **36** | **35** | **35** | **36** | **Maximum temperature will remain between 35-37°C and the minimum between 24- 25°C.** |
| **Mini. T (°C)** | **25** | **25** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **1** | **6** | **4** | **2** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **60** | **70** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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. 32**  **Date: Friday, 11 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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **2** | **2** | **Rainfall** |
| **Max. T (°C)** | **37** | **37** | **38** | **37** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between 24- 26°C.** |
| **Mini. T (°C)** | **24** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **0** | **0** | **5** | **5** | **3** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **70** | **70** | **75** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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. 32**  **Date: Friday, 11 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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Partially rainfall** |
| **Max. T (°C)** | **38** | **38** | **38** | **37** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between 24- 25°C.** |
| **Mini. T (°C)** | **24** | **25** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **6** | **2** | **2** | **cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **60** | **70** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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. 32**  **Date: Friday, 11 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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **0** | **0** | **Partially rainfall** |
| **Max. T (°C)** | **35** | **36** | **35** | **34** | **36** | **Maximum temperature will remain between 37-38°C and the minimum between 25- 26°C.** |
| **Mini. T (°C)** | **25** | **25** | **24** | **24** | **24** |
| **Cloud cover (okta)** | **0** | **2** | **7** | **4** | **2** | **cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **60** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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. 32**  **Date: Friday, 11 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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **0** | **0** | **Partially rainfall** |
| **Max. T (°C)** | **35** | **36** | **35** | **34** | **35** | **Maximum temperature will remain between 34-36°C and the minimum between 24- 25°C.** |
| **Mini. T (°C)** | **25** | **25** | **24** | **24** | **24** |
| **Cloud cover (okta)** | **0** | **2** | **7** | **4** | **2** | **cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **60** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **38** | **38** | **38** | **37** | **38** | **Maximum temperature will remain between 37-38°C and the minimum between 24- 25°C.** |
| **Mini. T (°C)** | **24** | **25** | **24** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **0** | **6** | **2** | **2** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **60** | **70** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Partially rainfall** |
| **Max. T (°C)** | **38** | **39** | **38** | **38** | **39** | **Maximum temperature will remain between 38-39°C and the minimum between 25- 26°C.** |
| **Mini. T (°C)** | **25** | **26** | **25** | **25** | **26** |
| **Cloud cover (okta)** | **0** | **0** | **5** | **4** | **2** | **cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **70** | **70** | **75** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**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. 32**  **Date: Friday, 11 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 37.6°C and 22.9°C respectively. Average relative humidity was 79 percent at 0700 hrs. and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 36.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.8 km/hr, 7.2 hours and 5.6 mm respectively. Dry weather prevailed during the forecast period across north Bihar districts.

**Medium Range Weather Forecast**

**(12 -16 May, 2018)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **12 May** | **13 May** | **14 May** | **15 May** | **16 May** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **5** | **0** | **0** | **Dry Weather** |
| **Max. T (°C)** | **38** | **37** | **35** | **36** | **36** | **Maximum temperature will remain between 35-38°C and the minimum between 23- 25°C.** |
| **Mini. T (°C)** | **25** | **24** | **23** | **24** | **25** |
| **Cloud cover (okta)** | **0** | **2** | **8** | **3** | **2** | **Cloudy sky** |
| **Max Relative Humidity (%)** | **70** | **70** | **80** | **80** | **70** |  |
| **Min Relative Humidity (%)** | **20** | **20** | **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)** |
| 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. |
| Elephant foot yam | Sowing | Complete the sowing of elephant foot yam crop in the weekend. |
| 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. |
| Green gram/Black gram | Pod formation | Monitoring is advised in Green gram and black gram crop for infestation of pod borer to facilitate protection measure against damage. |

**A. Sattar)**

**(Nodal Officer)**