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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. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.3°C and 26.5°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 63 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 35.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 7.0 hours and 4.4mm, respectively. At the center, about 0.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(6-10 July, 2019)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **10** | **30** | **35** | **20** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **34** | **33** | **31** | **31** | **32** | **-** |
| **Mini. T (°C)** | **27** | **26** | **26** | **26** | **26** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **60** | **60** | **60** |  |
| **Wind speed (kmph)** | **20** | **20** | **10** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
* Farmers are advised to transplant 20-22 days old paddy seedlings in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation.
* Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar.
 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
* Weeding is advised 15-20 days old onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight and rainfall.
* Protect the nursery crop against damping off disease infestation.
 |
| *Kharif* /SummerVegetables | Sowing/Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area.
* Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases.
 |
| Sesamum *(Til)*  | Sowing | Complete the sowing of sesamum at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
* Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept.
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**(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. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.3°C and 26.5°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 63 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 35.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 7.0 hours and 4.4mm, respectively. At the center, about 0.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **30** | **30** | **25** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **34** | **34** | **32** | **31** | **33** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **27** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **60** | **60** | **60** | **60** |  |
| **Wind speed (kmph)** | **20** | **20** | **15** | **20** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
* Farmers are advised to transplant 20-22 days old paddy seedlings in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation.
* Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar.
 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
* Weeding is advised 15-20 days old onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight and rainfall.
* Protect the nursery crop against damping off disease infestation.
 |
| *Kharif* /SummerVegetables | Sowing/Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area.
* Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases.
 |
| Sesamum *(Til)*  | Sowing | Complete the sowing of sesamum at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
* Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept.
 |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.3°C and 26.5°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 63 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 35.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 7.0 hours and 4.4mm, respectively. At the center, about 0.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **15** | **15** | **20** | **35** | **35** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **36** | **35** | **34** | **32** | **32** | **-** |
| **Mini. T (°C)** | **28** | **28** | **27** | **26** | **25** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
* Farmers are advised to transplant 20-22 days old paddy seedlings in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation.
* Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar.
 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
* Weeding is advised 15-20 days old onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight and rainfall.
* Protect the nursery crop against damping off disease infestation.
 |
| *Kharif* /SummerVegetables | Sowing/Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area.
* Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases.
 |
| Sesamum *(Til)*  | Sowing | Complete the sowing of sesamum at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
* Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept.
 |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.3°C and 26.5°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 63 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 35.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 7.0 hours and 4.4mm, respectively. At the center, about 0.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **15** | **20** | **20** | **25** | **20** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **33** | **32** | **31** | **31** | **32** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **25** |
| **Cloud cover (okta)** | **7** | **8** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **60** | **60** | **60** |  |
| **Wind speed (kmph)** | **20** | **15** | **10** | **15** | **20** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
* Farmers are advised to transplant 20-22 days old paddy seedlings in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation.
* Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar.
 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
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* Protect the nursery crop against damping off disease infestation.
 |
| *Kharif* /SummerVegetables | Sowing/Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area.
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 |
| Sesamum *(Til)*  | Sowing | Complete the sowing of sesamum at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
* Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept.
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**(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. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.3°C and 26.5°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 63 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 35.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 7.0 hours and 4.4mm, respectively. At the center, about 0.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **10** | **15** | **15** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **35** | **35** | **34** | **32** | **32** | **-** |
| **Mini. T (°C)** | **27** | **27** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **5** | **5** | **6** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
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 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
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| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
* Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept.
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**(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. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **15** | **10** | **25** | **20** | **30** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **35** | **35** | **34** | **32** | **32** | **-** |
| **Mini. T (°C)** | **27** | **28** | **26** | **25** | **24** |
| **Cloud cover (okta)** | **6** | **5** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **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)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
* Farmers are advised to transplant 20-22 days old paddy seedlings in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation.
* Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar.
 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
* Weeding is advised 15-20 days old onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight and rainfall.
* Protect the nursery crop against damping off disease infestation.
 |
| *Kharif* /SummerVegetables | Sowing/Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area.
* Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases.
 |
| Sesamum *(Til)*  | Sowing | Complete the sowing of sesamum at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
* Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept.
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**(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. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.3°C and 26.5°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 63 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 35.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 7.0 hours and 4.4mm, respectively. At the center, about 0.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **10** | **30** | **35** | **35** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **35** | **34** | **31** | **31** | **31** | **-** |
| **Mini. T (°C)** | **27** | **27** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **6** | **8** | **8** | **8** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **50** | **50** | **50** | **50** | **50** |  |
| **Wind speed (kmph)** | **20** | **20** | **20** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
* Farmers are advised to transplant 20-22 days old paddy seedlings in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation.
* Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar.
 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
* Weeding is advised 15-20 days old onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight and rainfall.
* Protect the nursery crop against damping off disease infestation.
 |
| *Kharif* /SummerVegetables | Sowing/Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area.
* Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases.
 |
| Sesamum *(Til)*  | Sowing | Complete the sowing of sesamum at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
* Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept.
 |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.3°C and 26.5°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 63 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 35.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 7.0 hours and 4.4mm, respectively. At the center, about 0.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **10** | **25** | **35** | **35** | **10** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **34** | **33** | **33** | **32** | **32** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **8** | **8** | **8** | **6** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **Wind speed (kmph)** | **10** | **15** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
* Farmers are advised to transplant 20-22 days old paddy seedlings in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation.
* Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar.
 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
* Weeding is advised 15-20 days old onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight and rainfall.
* Protect the nursery crop against damping off disease infestation.
 |
| *Kharif* /SummerVegetables | Sowing/Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area.
* Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases.
 |
| Sesamum *(Til)*  | Sowing | Complete the sowing of sesamum at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
* Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept.
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**(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. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.3°C and 26.5°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 63 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 35.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 7.0 hours and 4.4mm, respectively. At the center, about 0.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **20** | **35** | **20** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **34** | **33** | **33** | **32** | **32** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **8** | **8** | **8** | **6** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **Wind speed (kmph)** | **10** | **15** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
* Farmers are advised to transplant 20-22 days old paddy seedlings in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation.
* Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar.
 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
* Weeding is advised 15-20 days old onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight and rainfall.
* Protect the nursery crop against damping off disease infestation.
 |
| *Kharif* /SummerVegetables | Sowing/Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area.
* Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases.
 |
| Sesamum *(Til)*  | Sowing | Complete the sowing of sesamum at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
* Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept.
 |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.3°C and 26.5°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 63 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 35.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 7.0 hours and 4.4mm, respectively. At the center, about 0.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **25** | **35** | **25** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **34** | **33** | **33** | **32** | **32** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **8** | **8** | **8** | **6** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **Wind speed (kmph)** | **10** | **15** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
* Farmers are advised to transplant 20-22 days old paddy seedlings in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation.
* Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar.
 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
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* Protect the nursery crop against damping off disease infestation.
 |
| *Kharif* /SummerVegetables | Sowing/Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area.
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 |
| Sesamum *(Til)*  | Sowing | Complete the sowing of sesamum at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
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 |

**(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. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **10** | **15** | **20** | **35** | **35** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **34** | **33** | **33** | **32** | **32** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **8** | **8** | **8** | **6** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **Wind speed (kmph)** | **10** | **15** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
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 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
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 |
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| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
* Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept.
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**(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. 53****Date: Friday, 5 July,2019** | **Description: F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 34.3°C and 26.5°C, respectively. Average relative humidity was 83 percent at 0700 hrs and 63 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.3°C at 0700 hrs and 35.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 7.0 hours and 4.4mm, respectively. At the center, about 0.6 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(Vaishali)**

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| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
| **Rainfall(mm)** | **5** | **10** | **20** | **30** | **35** | **Chances of light to medium rainfall at many places, Heavy rainfall at isolated places** |
| **Max. T (°C)** | **34** | **33** | **33** | **32** | **32** | **-** |
| **Mini. T (°C)** | **26** | **26** | **25** | **24** | **24** |
| **Cloud cover (okta)** | **6** | **8** | **8** | **8** | **6** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **60** | **60** |  |
| **Wind speed (kmph)** | **10** | **15** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| In view of rainfall forecast, farmers are advised to take precaution in harvesting, threshing of summer maize crop. Postpone the spraying of pesticides in standing crop.  |
| *Kharif* paddy | Nursery Sowing/ Transplanting | * In view of rainfall forecast, farmers are suggested to prepare the bunds of their fields so that rain water could be collected for paddy transplanting.
* Farmers are advised to transplant 20-22 days old paddy seedlings in medium and low land areas. Application of 30 kg Nitrogen, 60 kg Phosphorus and 30 kg Potash with 25 kg Zinc Sulphate or 15 kg chelated Zinc per hectare is advised during land preparation.
* Complete the nursery sowing of paddy up to 10th July. *Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati* are the early varieties of paddy, which are recommended for sowing in north Bihar.
 |
| *Kharif* onion | Nurserysowing | * Complete the nursery sowing of *kharif* onion in raised bed at the earliest. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Seed should be treated with Captain or Thiram@2.0 gram /kg of seed.
* Weeding is advised 15-20 days old onion nursery. Nursery should be covered by net at the height of 6-7 feet for protection against scorching sunlight and rainfall.
* Protect the nursery crop against damping off disease infestation.
 |
| *Kharif* /SummerVegetables | Sowing/Fruiting | * Sowing of *kharif* vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd is advised in upland area.
* Regular monitoring is advised in summer vegetables against attack of insect-pest and diseases.
 |
| Sesamum *(Til)*  | Sowing | Complete the sowing of sesamum at the earliest. *Krishna, Kaakee safed, Kalika, Pragati* varieties are recommended for sowing in North Bihar. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation. Seed rate@ 4kg/ha is suggested. Before sowing, seed should be treated with Thiram@2gm/kg of seed. |
| Pigeon Pea *(Arher)/* | Landpreparation | Land preparation is advised for sowing of pigeon pea *(Arhar)*. Application of well decomposed FYM/Compost is suggested during land preparation.  |
| Livestock | **-** | * Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised.
* Farmers are advised to give protein enriched diet to the animals. Mineral mixture @40-50gm /animal should be given.
* Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases. Hygiene should be maintained at the place where animals are kept.
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**(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(6-10 July, 2019)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
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| **Weather parameters** | **6** **July** | **7** **July** | **8****July** | **9****July** | **10** **July** | **Remarks** |
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| **Max Relative Humidity (%)** | **85** | **85** | **85** | **90** | **90** |  |
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| **Wind speed (kmph)** | **10** | **15** | **15** | **15** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

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