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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. 55****Date: Friday, 3rdAugust, 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 31.0°C and 25.2°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 81 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 30.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.4 km/hr. 5.2 hours and 4.3 mm respectively. At the center, about 58.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

**(Begusarai)**

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| **Weather parameters** | **4th August** | **5th August** | **6th August** | **7th August** | **8th August** | **Remarks** |
| **Rainfall(mm)** | **25** | **25** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **32** | **31** | **31** | **32** | **32** | **Maximum temperature will remain between 31-32°C and the minimum between 26-27°C.** |
| **Mini. T (°C)** | **26** | **26** | **27** | **27** | **26** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Westerly** | **Westerly** | **Westerly/Easterly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
* In the paddy crop which is in 20-25 days stage, it is advised to remove weeds from the fields and application of 30 kg Nitrogen per hectare is suggested.
 |
| Mango | Planting | Weather conditions are congenial for planting of mango saplings in the orchards. Farmers may choose the different varieties of mango plants based on the maturity (ripening) period. *Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu* are the varieties which mature during the last week of May till June end, *Langra(Maldah), Hemsager, Krishnabhog, Aman Dasahri* varieties mature in the month of June end, while *Fajli,Sukul,Sipia,Taimuria* varieties mature in the month of July and *Samerbahist,Chousa,katiki* are the varieties that mature in the month of August. These varieties are suggested for planting across North Bihar. The hybrid varieties which are recommended for planting are *Mahmood Bahar, Prabhashanker, Amrpaali, Mallika, Manjira, Menika Jawaher, Alfajli, Pusa arunima and Sunder langra*.  |
| Banana | Planting | Planting of healthy suckers of banana is advised. *Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23* are the tall varieties and *Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1* are the dwarf varieties, which are recommended for planting in North Bihar. *Battisha, Sawa, Bankel, Kachkel*,PHIA-3 varieties are used for vegetable purposes and *Kothia, Muthia, Dudhsaager, and Chakia* varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. Application of 5kg FYM, Caster cake 500 gram, Single super phosphate 300 gram, Murate of potashium 100 gram and Carbofuran-10 gram per pit/plant is advised before planting. |
| Kharif maize | Early vegetative  | Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop. |
| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

**(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. 55****Date: Friday, 3rdAugust, 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 31.0°C and 25.2°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 81 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 30.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.4 km/hr. 5.2 hours and 4.3 mm respectively. At the center, about 58.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(Darbhanga)**

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| **Weather parameters** | **4th August** | **5th August** | **6th August** | **7th August** | **8th August** | **Remarks** |
| **Rainfall(mm)** | **50** | **30** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **32** | **30** | **30** | **31** | **32** | **Maximum temperature will remain between 30-32°C and the minimum between 25-27°C.** |
| **Mini. T (°C)** | **27** | **25** | **25** | **26** | **26** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
* In the paddy crop which is in 20-25 days stage, it is advised to remove weeds from the fields and application of 30 kg Nitrogen per hectare is suggested.
 |
| Mango | Planting | Weather conditions are congenial for planting of mango saplings in the orchards. Farmers may choose the different varieties of mango plants based on the maturity (ripening) period. *Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu* are the varieties which mature during the last week of May till June end, *Langra(Maldah), Hemsager, Krishnabhog, Aman Dasahri* varieties mature in the month of June end, while *Fajli,Sukul,Sipia,Taimuria* varieties mature in the month of July and *Samerbahist,Chousa,katiki* are the varieties that mature in the month of August. These varieties are suggested for planting across North Bihar. The hybrid varieties which are recommended for planting are *Mahmood Bahar, Prabhashanker, Amrpaali, Mallika, Manjira, Menika Jawaher, Alfajli, Pusa arunima and Sunder langra*.  |
| Banana | Planting | Planting of healthy suckers of banana is advised. *Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23* are the tall varieties and *Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1* are the dwarf varieties, which are recommended for planting in North Bihar. *Battisha, Sawa, Bankel, Kachkel*,PHIA-3 varieties are used for vegetable purposes and *Kothia, Muthia, Dudhsaager, and Chakia* varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. Application of 5kg FYM, Caster cake 500 gram, Single super phosphate 300 gram, Murate of potashium 100 gram and Carbofuran-10 gram per pit/plant is advised before planting. |
| Kharif maize | Early vegetative  | Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop. |
| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

 **(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 31.0°C and 25.2°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 81 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 30.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.4 km/hr. 5.2 hours and 4.3 mm respectively. At the center, about 58.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(East Champaran)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th August** | **5th August** | **6th** **August** | **7th August** | **8th** **August** | **Remarks** |
| **Rainfall(mm)** | **40** | **25** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **31** | **31** | **30** | **31** | **32** | **Maximum temperature will remain between 30-32°C and the minimum between 24-25°C.** |
| **Mini. T (°C)** | **25** | **24** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
* In the paddy crop which is in 20-25 days stage, it is advised to remove weeds from the fields and application of 30 kg Nitrogen per hectare is suggested.
 |
| Mango | Planting | Weather conditions are congenial for planting of mango saplings in the orchards. Farmers may choose the different varieties of mango plants based on the maturity (ripening) period. *Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu* are the varieties which mature during the last week of May till June end, *Langra(Maldah), Hemsager, Krishnabhog, Aman Dasahri* varieties mature in the month of June end, while *Fajli,Sukul,Sipia,Taimuria* varieties mature in the month of July and *Samerbahist,Chousa,katiki* are the varieties that mature in the month of August. These varieties are suggested for planting across North Bihar. The hybrid varieties which are recommended for planting are *Mahmood Bahar, Prabhashanker, Amrpaali, Mallika, Manjira, Menika Jawaher, Alfajli, Pusa arunima and Sunder langra*.  |
| Banana | Planting | Planting of healthy suckers of banana is advised. *Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23* are the tall varieties and *Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1* are the dwarf varieties, which are recommended for planting in North Bihar. *Battisha, Sawa, Bankel, Kachkel*,PHIA-3 varieties are used for vegetable purposes and *Kothia, Muthia, Dudhsaager, and Chakia* varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. Application of 5kg FYM, Caster cake 500 gram, Single super phosphate 300 gram, Murate of potashium 100 gram and Carbofuran-10 gram per pit/plant is advised before planting. |
| Kharif maize | Early vegetative  | Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop. |
| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

 **(A. Sattar)**

**(Nodal Officer)**

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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 31.0°C and 25.2°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 81 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 30.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.4 km/hr. 5.2 hours and 4.3 mm respectively. At the center, about 58.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(Gopalganj)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th August** | **5th August** | **6th** **August** | **7th August** | **8th** **August** | **Remarks** |
| **Rainfall(mm)** | **30** | **25** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **31** | **31** | **30** | **31** | **32** | **Maximum temperature will remain between 30-32°C and the minimum between 24-25°C.** |
| **Mini. T (°C)** | **25** | **24** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
* In the paddy crop which is in 20-25 days stage, it is advised to remove weeds from the fields and application of 30 kg Nitrogen per hectare is suggested.
 |
| Mango | Planting | Weather conditions are congenial for planting of mango saplings in the orchards. Farmers may choose the different varieties of mango plants based on the maturity (ripening) period. *Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu* are the varieties which mature during the last week of May till June end, *Langra(Maldah), Hemsager, Krishnabhog, Aman Dasahri* varieties mature in the month of June end, while *Fajli,Sukul,Sipia,Taimuria* varieties mature in the month of July and *Samerbahist,Chousa,katiki* are the varieties that mature in the month of August. These varieties are suggested for planting across North Bihar. The hybrid varieties which are recommended for planting are *Mahmood Bahar, Prabhashanker, Amrpaali, Mallika, Manjira, Menika Jawaher, Alfajli, Pusa arunima and Sunder langra*.  |
| Banana | Planting | Planting of healthy suckers of banana is advised. *Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23* are the tall varieties and *Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1* are the dwarf varieties, which are recommended for planting in North Bihar. *Battisha, Sawa, Bankel, Kachkel*,PHIA-3 varieties are used for vegetable purposes and *Kothia, Muthia, Dudhsaager, and Chakia* varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. Application of 5kg FYM, Caster cake 500 gram, Single super phosphate 300 gram, Murate of potashium 100 gram and Carbofuran-10 gram per pit/plant is advised before planting. |
| Kharif maize | Early vegetative  | Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop. |
| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th August** | **5th August** | **6th** **August** | **7th August** | **8th** **August** | **Remarks** |
| **Rainfall(mm)** | **50** | **30** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **32** | **30** | **30** | **31** | **32** | **Maximum temperature will remain between 30-32°C and the minimum between 25-27°C.** |
| **Mini. T (°C)** | **27** | **25** | **25** | **26** | **25** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
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| Kharif maize | Early vegetative  | Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop. |
| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

 **(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. 55****Date: Friday, 3rdAugust, 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 31.0°C and 25.2°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 81 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 30.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.4 km/hr. 5.2 hours and 4.3 mm respectively. At the center, about 58.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(Muzaffarpur)**

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| **Weather parameters** | **4th August** | **5th August** | **6th** **August** | **7th August** | **8th** **August** | **Remarks** |
| **Rainfall(mm)** | **30** | **30** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **32** | **30** | **30** | **31** | **32** | **Maximum temperature will remain between 30-32°C and the minimum between 25-26°C.** |
| **Mini. T (°C)** | **26** | **25** | **25** | **26** | **26** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

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| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
* In the paddy crop which is in 20-25 days stage, it is advised to remove weeds from the fields and application of 30 kg Nitrogen per hectare is suggested.
 |
| Mango | Planting | Weather conditions are congenial for planting of mango saplings in the orchards. Farmers may choose the different varieties of mango plants based on the maturity (ripening) period. *Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu* are the varieties which mature during the last week of May till June end, *Langra(Maldah), Hemsager, Krishnabhog, Aman Dasahri* varieties mature in the month of June end, while *Fajli,Sukul,Sipia,Taimuria* varieties mature in the month of July and *Samerbahist,Chousa,katiki* are the varieties that mature in the month of August. These varieties are suggested for planting across North Bihar. The hybrid varieties which are recommended for planting are *Mahmood Bahar, Prabhashanker, Amrpaali, Mallika, Manjira, Menika Jawaher, Alfajli, Pusa arunima and Sunder langra*.  |
| Banana | Planting | Planting of healthy suckers of banana is advised. *Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23* are the tall varieties and *Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1* are the dwarf varieties, which are recommended for planting in North Bihar. *Battisha, Sawa, Bankel, Kachkel*,PHIA-3 varieties are used for vegetable purposes and *Kothia, Muthia, Dudhsaager, and Chakia* varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. Application of 5kg FYM, Caster cake 500 gram, Single super phosphate 300 gram, Murate of potashium 100 gram and Carbofuran-10 gram per pit/plant is advised before planting. |
| Kharif maize | Early vegetative  | Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop. |
| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

 **(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. 55****Date: Friday, 3rdAugust, 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 31.0°C and 25.2°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 81 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 30.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.4 km/hr. 5.2 hours and 4.3 mm respectively. At the center, about 58.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(Samastipur)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th August** | **5th August** | **6th** **August** | **7th August** | **8th** **August** | **Remarks** |
| **Rainfall(mm)** | **30** | **30** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **32** | **30** | **30** | **31** | **32** | **Maximum temperature will remain between 30-32°C and the minimum between 25-27°C.** |
| **Mini. T (°C)** | **27** | **25** | **25** | **26** | **26** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
* In the paddy crop which is in 20-25 days stage, it is advised to remove weeds from the fields and application of 30 kg Nitrogen per hectare is suggested.
 |
| Mango | Planting | Weather conditions are congenial for planting of mango saplings in the orchards. Farmers may choose the different varieties of mango plants based on the maturity (ripening) period. *Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu* are the varieties which mature during the last week of May till June end, *Langra(Maldah), Hemsager, Krishnabhog, Aman Dasahri* varieties mature in the month of June end, while *Fajli,Sukul,Sipia,Taimuria* varieties mature in the month of July and *Samerbahist,Chousa,katiki* are the varieties that mature in the month of August. These varieties are suggested for planting across North Bihar. The hybrid varieties which are recommended for planting are *Mahmood Bahar, Prabhashanker, Amrpaali, Mallika, Manjira, Menika Jawaher, Alfajli, Pusa arunima and Sunder langra*.  |
| Banana | Planting | Planting of healthy suckers of banana is advised. *Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23* are the tall varieties and *Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1* are the dwarf varieties, which are recommended for planting in North Bihar. *Battisha, Sawa, Bankel, Kachkel*,PHIA-3 varieties are used for vegetable purposes and *Kothia, Muthia, Dudhsaager, and Chakia* varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. Application of 5kg FYM, Caster cake 500 gram, Single super phosphate 300 gram, Murate of potashium 100 gram and Carbofuran-10 gram per pit/plant is advised before planting. |
| Kharif maize | Early vegetative  | Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop. |
| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

 **(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. 55****Date: Friday, 3rdAugust, 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 31.0°C and 25.2°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 81 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 30.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.4 km/hr. 5.2 hours and 4.3 mm respectively. At the center, about 58.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(Saran)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th August** | **5th August** | **6th** **August** | **7th August** | **8th** **August** | **Remarks** |
| **Rainfall(mm)** | **30** | **25** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **31** | **31** | **30** | **31** | **32** | **Maximum temperature will remain between 30-32°C and the minimum between 24-25°C.** |
| **Mini. T (°C)** | **25** | **24** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
* In the paddy crop which is in 20-25 days stage, it is advised to remove weeds from the fields and application of 30 kg Nitrogen per hectare is suggested.
 |
| Mango | Planting | Weather conditions are congenial for planting of mango saplings in the orchards. Farmers may choose the different varieties of mango plants based on the maturity (ripening) period. *Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu* are the varieties which mature during the last week of May till June end, *Langra(Maldah), Hemsager, Krishnabhog, Aman Dasahri* varieties mature in the month of June end, while *Fajli,Sukul,Sipia,Taimuria* varieties mature in the month of July and *Samerbahist,Chousa,katiki* are the varieties that mature in the month of August. These varieties are suggested for planting across North Bihar. The hybrid varieties which are recommended for planting are *Mahmood Bahar, Prabhashanker, Amrpaali, Mallika, Manjira, Menika Jawaher, Alfajli, Pusa arunima and Sunder langra*.  |
| Banana | Planting | Planting of healthy suckers of banana is advised. *Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23* are the tall varieties and *Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1* are the dwarf varieties, which are recommended for planting in North Bihar. *Battisha, Sawa, Bankel, Kachkel*,PHIA-3 varieties are used for vegetable purposes and *Kothia, Muthia, Dudhsaager, and Chakia* varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. Application of 5kg FYM, Caster cake 500 gram, Single super phosphate 300 gram, Murate of potashium 100 gram and Carbofuran-10 gram per pit/plant is advised before planting. |
| Kharif maize | Early vegetative  | Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop. |
| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

 **(A. Sattar)**

**(Nodal Officer)**

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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 31.0°C and 25.2°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 81 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 30.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.4 km/hr. 5.2 hours and 4.3 mm respectively. At the center, about 58.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th August** | **5th August** | **6th** **August** | **7th August** | **8th** **August** | **Remarks** |
| **Rainfall(mm)** | **30** | **25** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **31** | **31** | **30** | **31** | **32** | **Maximum temperature will remain between 30-32°C and the minimum between 25-26°C.** |
| **Mini. T (°C)** | **26** | **25** | **25** | **26** | **25** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
* In the paddy crop which is in 20-25 days stage, it is advised to remove weeds from the fields and application of 30 kg Nitrogen per hectare is suggested.
 |
| Mango | Planting | Weather conditions are congenial for planting of mango saplings in the orchards. Farmers may choose the different varieties of mango plants based on the maturity (ripening) period. *Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu* are the varieties which mature during the last week of May till June end, *Langra(Maldah), Hemsager, Krishnabhog, Aman Dasahri* varieties mature in the month of June end, while *Fajli,Sukul,Sipia,Taimuria* varieties mature in the month of July and *Samerbahist,Chousa,katiki* are the varieties that mature in the month of August. These varieties are suggested for planting across North Bihar. The hybrid varieties which are recommended for planting are *Mahmood Bahar, Prabhashanker, Amrpaali, Mallika, Manjira, Menika Jawaher, Alfajli, Pusa arunima and Sunder langra*.  |
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| Kharif maize | Early vegetative  | Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop. |
| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th August** | **5th August** | **6th** **August** | **7th August** | **8th** **August** | **Remarks** |
| **Rainfall(mm)** | **50** | **30** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **31** | **31** | **30** | **31** | **32** | **Maximum temperature will remain between 30-32°C and the minimum between 23-25°C.** |
| **Mini. T (°C)** | **25** | **23** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
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| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

 **(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. 55****Date: Friday, 3rdAugust, 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 31.0°C and 25.2°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 81 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 30.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.4 km/hr. 5.2 hours and 4.3 mm respectively. At the center, about 58.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(Siwan)**

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| **Weather parameters** | **4th August** | **5th August** | **6th** **August** | **7th August** | **8th** **August** | **Remarks** |
| **Rainfall(mm)** | **30** | **25** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **31** | **31** | **30** | **31** | **32** | **Maximum temperature will remain between 30-32°C and the minimum between 24-25°C.** |
| **Mini. T (°C)** | **25** | **24** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
* In the paddy crop which is in 20-25 days stage, it is advised to remove weeds from the fields and application of 30 kg Nitrogen per hectare is suggested.
 |
| Mango | Planting | Weather conditions are congenial for planting of mango saplings in the orchards. Farmers may choose the different varieties of mango plants based on the maturity (ripening) period. *Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu* are the varieties which mature during the last week of May till June end, *Langra(Maldah), Hemsager, Krishnabhog, Aman Dasahri* varieties mature in the month of June end, while *Fajli,Sukul,Sipia,Taimuria* varieties mature in the month of July and *Samerbahist,Chousa,katiki* are the varieties that mature in the month of August. These varieties are suggested for planting across North Bihar. The hybrid varieties which are recommended for planting are *Mahmood Bahar, Prabhashanker, Amrpaali, Mallika, Manjira, Menika Jawaher, Alfajli, Pusa arunima and Sunder langra*.  |
| Banana | Planting | Planting of healthy suckers of banana is advised. *Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23* are the tall varieties and *Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1* are the dwarf varieties, which are recommended for planting in North Bihar. *Battisha, Sawa, Bankel, Kachkel*,PHIA-3 varieties are used for vegetable purposes and *Kothia, Muthia, Dudhsaager, and Chakia* varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. Application of 5kg FYM, Caster cake 500 gram, Single super phosphate 300 gram, Murate of potashium 100 gram and Carbofuran-10 gram per pit/plant is advised before planting. |
| Kharif maize | Early vegetative  | Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop. |
| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

 **(A. Sattar)**

**(Nodal Officer)**

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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 31.0°C and 25.2°C respectively. Average relative humidity was 88 percent at 0700 hrs. and 81 percent at 1400 hrs. Soil temperature at 5 cm depth was 27.5°C at 0700 hrs. and 30.1°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 4.4 km/hr. 5.2 hours and 4.3 mm respectively. At the center, about 58.8 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(Vaishali)**

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| **Weather parameters** | **4th August** | **5th August** | **6th** **August** | **7th August** | **8th** **August** | **Remarks** |
| **Rainfall(mm)** | **30** | **25** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **32** | **32** | **32** | **33** | **Maximum temperature will remain between 32-33°C and the minimum between 25-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **25** | **26** | **26** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
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| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Due to medium to heavy rainfall at many places in north Bihar and in view of more rainfall during the forecasted period, farmers are advised to drain out excess water from standing crops/nurseries of onion, chili and cauliflower. Farmers are also suggested for lifting the creepers above the ground on a stand made of bamboo. |
| Paddy | Transplanting | * Farmers are advised to prepare the bunds of their fields so that rain water could be collected for paddy transplanting. Farmers are suggested to give top priority in the transplanting of *kharif* paddy in low and medium land areas. Weed management is advised in the rice field within 3 to 7 days of transplanting by spraying a solution of *Butachlor@3.0* *liters or* *Pritlachlor@1.5liter**s or* *Pendimethaline@3.0* *liters* in 500-600 liters of water applicable for one hectare.
* In the paddy crop which is in 20-25 days stage, it is advised to remove weeds from the fields and application of 30 kg Nitrogen per hectare is suggested.
 |
| Mango | Planting | Weather conditions are congenial for planting of mango saplings in the orchards. Farmers may choose the different varieties of mango plants based on the maturity (ripening) period. *Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu* are the varieties which mature during the last week of May till June end, *Langra(Maldah), Hemsager, Krishnabhog, Aman Dasahri* varieties mature in the month of June end, while *Fajli,Sukul,Sipia,Taimuria* varieties mature in the month of July and *Samerbahist,Chousa,katiki* are the varieties that mature in the month of August. These varieties are suggested for planting across North Bihar. The hybrid varieties which are recommended for planting are *Mahmood Bahar, Prabhashanker, Amrpaali, Mallika, Manjira, Menika Jawaher, Alfajli, Pusa arunima and Sunder langra*.  |
| Banana | Planting | Planting of healthy suckers of banana is advised. *Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23* are the tall varieties and *Grandnaine, Robesta, Basrai, PHIA-1(Gold finger),BRS-1* are the dwarf varieties, which are recommended for planting in North Bihar. *Battisha, Sawa, Bankel, Kachkel*,PHIA-3 varieties are used for vegetable purposes and *Kothia, Muthia, Dudhsaager, and Chakia* varieties are used for both vegetables and fruits. The planting distance should be 2.0x2.0 meters for tall varieties and 1.5x1.5 meters for dwarf varieties. Application of 5kg FYM, Caster cake 500 gram, Single super phosphate 300 gram, Murate of potashium 100 gram and Carbofuran-10 gram per pit/plant is advised before planting. |
| Kharif maize | Early vegetative  | Application of 40 kg nitrogen per hectare is suggested in 30-35 days old maize crop. |
| *Kharif* onion | Transplanting | Transplanting of 45-50 days old onion seedlings is advised in raised seedbed at a distance of 15X10 cm. Farmers are advised to remove weeds from late sown onion nursery. |
| Forestry plants | Planting | Planting of forestry plants such as *Sagwan, Chah, Hara Simal, Desi Simal, Safed Shirish, Kala Shirish, Arjun, Gamhar, Gulmoha*r is advised. |

 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(4th -8th August, 2018)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th August** | **5th August** | **6th** **August** | **7th August** | **8th** **August** | **Remarks** |
| **Rainfall(mm)** | **40** | **25** | **25** | **15** | **10** | **Light to medium** |
| **Max. T (°C)** | **31** | **31** | **30** | **31** | **32** | **Maximum temperature will remain between 30-32°C and the minimum between 23-25°C.** |
| **Mini. T (°C)** | **25** | **23** | **24** | **25** | **25** |
| **Cloud cover (okta)** | **8** | **8** | **8** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **100** | **95** | **95** | **95** | **90** |  |
| **Min Relative Humidity (%)** | **80** | **75** | **75** | **75** | **70** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
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 **(A. Sattar)**

**(Nodal Officer)**