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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. 62****Date: Tuesday, 28th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.5°C and 26.5°C respectively. Average relative humidity was 87 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.3°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.3 hours and 3.9 mm respectively. At the center, about 16.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **15** | **15** | **20** | **Light to medium** |
| **Max. T (°C)** | **34** | **35** | **34** | **33** | **34** | **Maximum temperature will remain between 33-35°C and the minimum between** **26-27°C.** |
| **Mini. T (°C)** | **26** | **27** | **26** | **26** | **27** |
| **Cloud cover (okta)** | **7** | **6** | **6** | **7** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **10** | **10** | **10** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
| Paddy | Tillering | * Regular monitoring is advised for infestation of stem borer and leaf folder insect pest in paddy crop. If infestation is observed, application of cartap hydrochloride 4G(*Caldan) @*10kg/acre is advised to protect the crop.
* Monitoring of *khaira* disease is advised in paddy crop. The disease is caused by zinc deficiency. If symptoms occur, spraying of zinc sulphate@5.0 kg mixed with lime@2.5 kg in 500 liters of water is advised for one hectare cropped area.
 |
| Ladys finger(Okra) | Fruiting | Monitoring is advised for Yellow Vein Mosaic Virus (YMV) disease in okra. This is caused by white fly. If infestation (diseased plant) seen in the crop field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition.  |
| September Pigeon pea*(Arhar)* | Sowing | * In upland areas, sowing of *Pusa-9* and *Sarad* varieties of September pigeon pea is advised. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus, 20 kg/ha Potash and 20 kg sulphur/ha is advised during land preparation. Seed should be treated with Thiram/Capton @2.5gm/kg of seed.
* Regular monitoring is advised in July sown pigeon pea crop against insect pest and disease infestation. Intercultural operation is also suggested.
 |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended.  |
| To destroy the soil borne diseases and for better crop health, farmers are advised to apply *Trichoderma* in the soil. Mix 1.0 kg of *Trichoderma* with 100 kg of wet cow dung and keep it on the shaded floor for 6-7 days covered with polythene. The mixture should be broadcast in the field after last ploughing. It is advised to maintain temperature of the mixture at around 25-30°C. Ensure that these mixture does not come in contact with chemical fertilizer. |

**(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. 62****Date: Tuesday, 28th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.5°C and 26.5°C respectively. Average relative humidity was 87 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.3°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.3 hours and 3.9 mm respectively. At the center, about 16.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **10** | **10** | **20** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **34** | **34** | **33** | **Maximum temperature will remain between 33-34°C and the minimum between 25-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **8** | **7** | **5** | **6** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **15** | **10** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
| Paddy | Tillering | * Regular monitoring is advised for infestation of stem borer and leaf folder insect pest in paddy crop. If infestation is observed, application of cartap hydrochloride 4G(*Caldan) @*10kg/acre is advised to protect the crop.
* Monitoring of *khaira* disease is advised in paddy crop. The disease is caused by zinc deficiency. If symptoms occur, spraying of zinc sulphate@5.0 kg mixed with lime@2.5 kg in 500 liters of water is advised for one hectare cropped area.
 |
| Ladys finger(Okra) | Fruiting | Monitoring is advised for Yellow Vein Mosaic Virus (YMV) disease in okra. This is caused by white fly. If infestation (diseased plant) seen in the crop field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition.  |
| September Pigeon pea*(Arhar)* | Sowing | * In upland areas, sowing of *Pusa-9* and *Sarad* varieties of September pigeon pea is advised. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus, 20 kg/ha Potash and 20 kg sulphur/ha is advised during land preparation. Seed should be treated with Thiram/Capton @2.5gm/kg of seed.
* Regular monitoring is advised in July sown pigeon pea crop against insect pest and disease infestation. Intercultural operation is also suggested.
 |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended.  |
| To destroy the soil borne diseases and for better crop health, farmers are advised to apply *Trichoderma* in the soil. Mix 1.0 kg of *Trichoderma* with 100 kg of wet cow dung and keep it on the shaded floor for 6-7 days covered with polythene. The mixture should be broadcast in the field after last ploughing. It is advised to maintain temperature of the mixture at around 25-30°C. Ensure that these mixture does not come in contact with chemical fertilizer. |

 **(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. 62****Date: Tuesday, 28th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.5°C and 26.5°C respectively. Average relative humidity was 87 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.3°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.3 hours and 3.9 mm respectively. At the center, about 16.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **15** | **20** | **20** | **30** | **20** | **Light to medium** |
| **Max. T (°C)** | **35** | **34** | **34** | **33** | **34** | **Maximum temperature will remain between 33-35°C and the minimum between 26-27°C.** |
| **Mini. T (°C)** | **27** | **26** | **26** | **26** | **26** |
| **Cloud cover (okta)** | **8** | **7** | **7** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **100** | **100** | **95** |  |
| **Min Relative Humidity (%)** | **70** | **70** | **75** | **75** | **75** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
| Paddy | Tillering | * Regular monitoring is advised for infestation of stem borer and leaf folder insect pest in paddy crop. If infestation is observed, application of cartap hydrochloride 4G(*Caldan) @*10kg/acre is advised to protect the crop.
* Monitoring of *khaira* disease is advised in paddy crop. The disease is caused by zinc deficiency. If symptoms occur, spraying of zinc sulphate@5.0 kg mixed with lime@2.5 kg in 500 liters of water is advised for one hectare cropped area.
 |
| Ladys finger(Okra) | Fruiting | Monitoring is advised for Yellow Vein Mosaic Virus (YMV) disease in okra. This is caused by white fly. If infestation (diseased plant) seen in the crop field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition.  |
| September Pigeon pea*(Arhar)* | Sowing | * In upland areas, sowing of *Pusa-9* and *Sarad* varieties of September pigeon pea is advised. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus, 20 kg/ha Potash and 20 kg sulphur/ha is advised during land preparation. Seed should be treated with Thiram/Capton @2.5gm/kg of seed.
* Regular monitoring is advised in July sown pigeon pea crop against insect pest and disease infestation. Intercultural operation is also suggested.
 |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended.  |
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 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **15** | **10** | **10** | **20** | **20** | **Light to medium** |
| **Max. T (°C)** | **34** | **35** | **34** | **33** | **34** | **Maximum temperature will remain between 33-35°C and the minimum between 26-27°C.** |
| **Mini. T (°C)** | **27** | **26** | **27** | **26** | **27** |
| **Cloud cover (okta)** | **8** | **7** | **7** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **100** | **100** | **95** |  |
| **Min Relative Humidity (%)** | **70** | **70** | **75** | **75** | **75** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
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 |
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 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **10** | **10** | **20** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **34** | **34** | **33** | **Maximum temperature will remain between 33-34°C and the minimum between 25-26°C.** |
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| **Cloud cover (okta)** | **8** | **7** | **5** | **6** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **15** | **10** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and 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**

**(29th August-2nd September, 2018)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **20** | **15** | **20** | **10** | **15** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **33** | **33** | **32** | **Maximum temperature will remain between 32-34°C and the minimum between 26-27°C.** |
| **Mini. T (°C)** | **26** | **27** | **27** | **27** | **26** |
| **Cloud cover (okta)** | **8** | **6** | **5** | **6** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | 95 | 95 | 95 | 95 |  |
| **Min Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **15** | **10** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
| Paddy | Tillering | * Regular monitoring is advised for infestation of stem borer and leaf folder insect pest in paddy crop. If infestation is observed, application of cartap hydrochloride 4G(*Caldan) @*10kg/acre is advised to protect the crop.
* Monitoring of *khaira* disease is advised in paddy crop. The disease is caused by zinc deficiency. If symptoms occur, spraying of zinc sulphate@5.0 kg mixed with lime@2.5 kg in 500 liters of water is advised for one hectare cropped area.
 |
| Ladys finger(Okra) | Fruiting | Monitoring is advised for Yellow Vein Mosaic Virus (YMV) disease in okra. This is caused by white fly. If infestation (diseased plant) seen in the crop field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition.  |
| September Pigeon pea*(Arhar)* | Sowing | * In upland areas, sowing of *Pusa-9* and *Sarad* varieties of September pigeon pea is advised. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus, 20 kg/ha Potash and 20 kg sulphur/ha is advised during land preparation. Seed should be treated with Thiram/Capton @2.5gm/kg of seed.
* Regular monitoring is advised in July sown pigeon pea crop against insect pest and disease infestation. Intercultural operation is also suggested.
 |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended.  |
| To destroy the soil borne diseases and for better crop health, farmers are advised to apply *Trichoderma* in the soil. Mix 1.0 kg of *Trichoderma* with 100 kg of wet cow dung and keep it on the shaded floor for 6-7 days covered with polythene. The mixture should be broadcast in the field after last ploughing. It is advised to maintain temperature of the mixture at around 25-30°C. Ensure that these mixture does not come in contact with chemical fertilizer. |

 **(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. 62****Date: Tuesday, 28th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.5°C and 26.5°C respectively. Average relative humidity was 87 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.3°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.3 hours and 3.9 mm respectively. At the center, about 16.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **10** | **10** | **20** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **34** | **34** | **33** | **Maximum temperature will remain between 33-34°C and the minimum between 25-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **26** | **26** | **25** |
| **Cloud cover (okta)** | **8** | **7** | **5** | **6** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | 95 | 95 | 95 | 95 |  |
| **Min Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **15** | **10** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
| Paddy | Tillering | * Regular monitoring is advised for infestation of stem borer and leaf folder insect pest in paddy crop. If infestation is observed, application of cartap hydrochloride 4G(*Caldan) @*10kg/acre is advised to protect the crop.
* Monitoring of *khaira* disease is advised in paddy crop. The disease is caused by zinc deficiency. If symptoms occur, spraying of zinc sulphate@5.0 kg mixed with lime@2.5 kg in 500 liters of water is advised for one hectare cropped area.
 |
| Ladys finger(Okra) | Fruiting | Monitoring is advised for Yellow Vein Mosaic Virus (YMV) disease in okra. This is caused by white fly. If infestation (diseased plant) seen in the crop field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition.  |
| September Pigeon pea*(Arhar)* | Sowing | * In upland areas, sowing of *Pusa-9* and *Sarad* varieties of September pigeon pea is advised. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus, 20 kg/ha Potash and 20 kg sulphur/ha is advised during land preparation. Seed should be treated with Thiram/Capton @2.5gm/kg of seed.
* Regular monitoring is advised in July sown pigeon pea crop against insect pest and disease infestation. Intercultural operation is also suggested.
 |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended.  |
| To destroy the soil borne diseases and for better crop health, farmers are advised to apply *Trichoderma* in the soil. Mix 1.0 kg of *Trichoderma* with 100 kg of wet cow dung and keep it on the shaded floor for 6-7 days covered with polythene. The mixture should be broadcast in the field after last ploughing. It is advised to maintain temperature of the mixture at around 25-30°C. Ensure that these mixture does not come in contact with chemical fertilizer. |

 **(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. 62****Date: Tuesday, 28th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.5°C and 26.5°C respectively. Average relative humidity was 87 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.3°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.3 hours and 3.9 mm respectively. At the center, about 16.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **20** | **15** | **20** | **Light to medium** |
| **Max. T (°C)** | **35** | **35** | **34** | **34** | **35** | **Maximum temperature will remain between 34-35°C and the minimum between 27°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **27** | **27** |
| **Cloud cover (okta)** | **8** | **7** | **7** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | 95 | 100 | 100 | 95 |  |
| **Min Relative Humidity (%)** | **70** | **70** | **75** | **75** | **75** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
| Paddy | Tillering | * Regular monitoring is advised for infestation of stem borer and leaf folder insect pest in paddy crop. If infestation is observed, application of cartap hydrochloride 4G(*Caldan) @*10kg/acre is advised to protect the crop.
* Monitoring of *khaira* disease is advised in paddy crop. The disease is caused by zinc deficiency. If symptoms occur, spraying of zinc sulphate@5.0 kg mixed with lime@2.5 kg in 500 liters of water is advised for one hectare cropped area.
 |
| Ladys finger(Okra) | Fruiting | Monitoring is advised for Yellow Vein Mosaic Virus (YMV) disease in okra. This is caused by white fly. If infestation (diseased plant) seen in the crop field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition.  |
| September Pigeon pea*(Arhar)* | Sowing | * In upland areas, sowing of *Pusa-9* and *Sarad* varieties of September pigeon pea is advised. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus, 20 kg/ha Potash and 20 kg sulphur/ha is advised during land preparation. Seed should be treated with Thiram/Capton @2.5gm/kg of seed.
* Regular monitoring is advised in July sown pigeon pea crop against insect pest and disease infestation. Intercultural operation is also suggested.
 |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended.  |
| To destroy the soil borne diseases and for better crop health, farmers are advised to apply *Trichoderma* in the soil. Mix 1.0 kg of *Trichoderma* with 100 kg of wet cow dung and keep it on the shaded floor for 6-7 days covered with polythene. The mixture should be broadcast in the field after last ploughing. It is advised to maintain temperature of the mixture at around 25-30°C. Ensure that these mixture does not come in contact with chemical fertilizer. |

 **(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. 62****Date: Tuesday, 28th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.5°C and 26.5°C respectively. Average relative humidity was 87 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.3°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.3 hours and 3.9 mm respectively. At the center, about 16.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **10** | **5** | **10** | **10** | **10** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **34** | **33** | **34** | **Maximum temperature will remain between 33-34°C and the minimum between 26°C.** |
| **Mini. T (°C)** | **26** | **26** | **26** | **26** | **26** |
| **Cloud cover (okta)** | **8** | **6** | **5** | **7** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **15** | **10** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
| Paddy | Tillering | * Regular monitoring is advised for infestation of stem borer and leaf folder insect pest in paddy crop. If infestation is observed, application of cartap hydrochloride 4G(*Caldan) @*10kg/acre is advised to protect the crop.
* Monitoring of *khaira* disease is advised in paddy crop. The disease is caused by zinc deficiency. If symptoms occur, spraying of zinc sulphate@5.0 kg mixed with lime@2.5 kg in 500 liters of water is advised for one hectare cropped area.
 |
| Ladys finger(Okra) | Fruiting | Monitoring is advised for Yellow Vein Mosaic Virus (YMV) disease in okra. This is caused by white fly. If infestation (diseased plant) seen in the crop field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition.  |
| September Pigeon pea*(Arhar)* | Sowing | * In upland areas, sowing of *Pusa-9* and *Sarad* varieties of September pigeon pea is advised. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus, 20 kg/ha Potash and 20 kg sulphur/ha is advised during land preparation. Seed should be treated with Thiram/Capton @2.5gm/kg of seed.
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 |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended.  |
| To destroy the soil borne diseases and for better crop health, farmers are advised to apply *Trichoderma* in the soil. Mix 1.0 kg of *Trichoderma* with 100 kg of wet cow dung and keep it on the shaded floor for 6-7 days covered with polythene. The mixture should be broadcast in the field after last ploughing. It is advised to maintain temperature of the mixture at around 25-30°C. Ensure that these mixture does not come in contact with chemical fertilizer. |

 **(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. 62****Date: Tuesday, 28th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

 **(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **15** | **10** | **20** | **10** | **20** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **33** | **33** | **33** | **Maximum temperature will remain between 33-34°C and the minimum between 26°C.** |
| **Mini. T (°C)** | **26** | **26** | **26** | **26** | **26** |
| **Cloud cover (okta)** | **8** | **6** | **6** | **7** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **95** | **95** | **95** |  |
| **Min Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **15** | **10** | **15** | **15** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
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* Monitoring of *khaira* disease is advised in paddy crop. The disease is caused by zinc deficiency. If symptoms occur, spraying of zinc sulphate@5.0 kg mixed with lime@2.5 kg in 500 liters of water is advised for one hectare cropped area.
 |
| Ladys finger(Okra) | Fruiting | Monitoring is advised for Yellow Vein Mosaic Virus (YMV) disease in okra. This is caused by white fly. If infestation (diseased plant) seen in the crop field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition.  |
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 |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended.  |
| To destroy the soil borne diseases and for better crop health, farmers are advised to apply *Trichoderma* in the soil. Mix 1.0 kg of *Trichoderma* with 100 kg of wet cow dung and keep it on the shaded floor for 6-7 days covered with polythene. The mixture should be broadcast in the field after last ploughing. It is advised to maintain temperature of the mixture at around 25-30°C. Ensure that these mixture does not come in contact with chemical fertilizer. |

 **(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. 62****Date: Tuesday, 28th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **15** | **10** | **20** | **20** | **20** | **Light to medium** |
| **Max. T (°C)** | **35** | **35** | **35** | **34** | **35** | **Maximum temperature will remain between 34-35°C and the minimum between 27°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **27** | **27** |
| **Cloud cover (okta)** | **8** | **7** | **7** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | 95 | 100 | 100 | 95 |  |
| **Min Relative Humidity (%)** | **70** | **70** | **75** | **75** | **75** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
| Paddy | Tillering | * Regular monitoring is advised for infestation of stem borer and leaf folder insect pest in paddy crop. If infestation is observed, application of cartap hydrochloride 4G(*Caldan) @*10kg/acre is advised to protect the crop.
* Monitoring of *khaira* disease is advised in paddy crop. The disease is caused by zinc deficiency. If symptoms occur, spraying of zinc sulphate@5.0 kg mixed with lime@2.5 kg in 500 liters of water is advised for one hectare cropped area.
 |
| Ladys finger(Okra) | Fruiting | Monitoring is advised for Yellow Vein Mosaic Virus (YMV) disease in okra. This is caused by white fly. If infestation (diseased plant) seen in the crop field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition.  |
| September Pigeon pea*(Arhar)* | Sowing | * In upland areas, sowing of *Pusa-9* and *Sarad* varieties of September pigeon pea is advised. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus, 20 kg/ha Potash and 20 kg sulphur/ha is advised during land preparation. Seed should be treated with Thiram/Capton @2.5gm/kg of seed.
* Regular monitoring is advised in July sown pigeon pea crop against insect pest and disease infestation. Intercultural operation is also suggested.
 |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended.  |
| To destroy the soil borne diseases and for better crop health, farmers are advised to apply *Trichoderma* in the soil. Mix 1.0 kg of *Trichoderma* with 100 kg of wet cow dung and keep it on the shaded floor for 6-7 days covered with polythene. The mixture should be broadcast in the field after last ploughing. It is advised to maintain temperature of the mixture at around 25-30°C. Ensure that these mixture does not come in contact with chemical fertilizer. |

 **(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. 62****Date: Tuesday, 28th August, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 32.5°C and 26.5°C respectively. Average relative humidity was 87 percent at 0700 hrs. and 83 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.3°C at 0700 hrs. and 31.6°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 5.2 km/hr, 7.3 hours and 3.9 mm respectively. At the center, about 16.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **10** | **10** | **15** | **15** | **20** | **Light to medium** |
| **Max. T (°C)** | **33** | **34** | **34** | **33** | **34** | **Maximum temperature will remain between 33-34°C and the minimum between 26-27°C.** |
| **Mini. T (°C)** | **27** | **27** | **27** | **27** | **26** |
| **Cloud cover (okta)** | **8** | **6** | **6** | **7** | **7** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | 95 | 95 | 95 | 95 |  |
| **Min Relative Humidity (%)** | **70** | **70** | **70** | **70** | **70** |  |
| **Wind speed (kmph)** | **15** | **10** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
| Paddy | Tillering | * Regular monitoring is advised for infestation of stem borer and leaf folder insect pest in paddy crop. If infestation is observed, application of cartap hydrochloride 4G(*Caldan) @*10kg/acre is advised to protect the crop.
* Monitoring of *khaira* disease is advised in paddy crop. The disease is caused by zinc deficiency. If symptoms occur, spraying of zinc sulphate@5.0 kg mixed with lime@2.5 kg in 500 liters of water is advised for one hectare cropped area.
 |
| Ladys finger(Okra) | Fruiting | Monitoring is advised for Yellow Vein Mosaic Virus (YMV) disease in okra. This is caused by white fly. If infestation (diseased plant) seen in the crop field, spraying of Imidacloprid @ 0.3ml/litre of water is advised in clear day condition.  |
| September Pigeon pea*(Arhar)* | Sowing | * In upland areas, sowing of *Pusa-9* and *Sarad* varieties of September pigeon pea is advised. Application of 20kg/ha Nitrogen, 45kg/ha Phosphorus, 20 kg/ha Potash and 20 kg sulphur/ha is advised during land preparation. Seed should be treated with Thiram/Capton @2.5gm/kg of seed.
* Regular monitoring is advised in July sown pigeon pea crop against insect pest and disease infestation. Intercultural operation is also suggested.
 |
| Pointed guard | Planting | Planting of *Rajendra parwal-1, Rajendra Parwal-2, FP-1, FP-3, Swarm rekha, Swarn allokik, IIVR-1, 2, 105* varieties of pointed guard is advised in north Bihar. Seed rate @2500 plants/hectare with planting distance of 2x2 meter are advised. Application of 3-5 kilogram Compost, 250 gram Neem or Castor cake, 100 gram Single Super Phosphate(SSP), 25 gram Murate of Potash (MOP) and 10-15 gram Thimate/pit before planting is recommended.  |
| To destroy the soil borne diseases and for better crop health, farmers are advised to apply *Trichoderma* in the soil. Mix 1.0 kg of *Trichoderma* with 100 kg of wet cow dung and keep it on the shaded floor for 6-7 days covered with polythene. The mixture should be broadcast in the field after last ploughing. It is advised to maintain temperature of the mixture at around 25-30°C. Ensure that these mixture does not come in contact with chemical fertilizer. |

 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

**(29th August-2nd September, 2018)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29th August** | **30th August** | **31st August** | **1st** **September** | **2nd** **September** | **Remarks** |
| **Rainfall(mm)** | **15** | **20** | **20** | **30** | **20** | **Light to medium** |
| **Max. T (°C)** | **35** | **35** | **34** | **33** | **34** | **Maximum temperature will remain between 33-35°C and the minimum between 26-27°C.** |
| **Mini. T (°C)** | **27** | **26** | **26** | **26** | **26** |
| **Cloud cover (okta)** | **8** | **7** | **7** | **8** | **8** | **Mainly cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **100** | **100** | **95** |  |
| **Min Relative Humidity (%)** | **70** | **70** | **75** | **75** | **75** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **10** | **10** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases**  | **Advisory (Based on weather forecast)** |
| Animal care | - | Farmers are advised that they should not feed the milch animals drenched fodder or other feeds in order to protect them from infectious disease. The feet of animals should be washed with the solution of potassium permanganate to avoid mastitis disease. It is advised not to allow the animals to sit on floor immediately after milking. It is advised to wash the udders of the animals after milking. Farmers can check the incidence of subclinical mastitis by testing pH value of milk with litmus paper. If pH of milk exceeds above 7.0, *Mammidium, Mastikill, Mammiup* medicines should be applied and feeding of mineral mixture@50 gram/animal /day is advised. Proper sanitation and hygiene should be maintained at the place where animals are kept. |
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 **(A. Sattar)**

**(Nodal Officer)**