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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. 70**  **Date: Friday, 28th September, 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 34.0°C and 25.0°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.0°C at 0700 hrs. and 33.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 9.3 hours and 5.0 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(29 September- 3 October, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **35** | **36** | **36** | **36** | **35** | **Maximum temperature will remain between 35-36°C and the minimum between**  **24-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **2** | **2** | **2** | **2** | **2** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(A. Sattar)**

**(Nodal Office)**

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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. 70**  **Date: Friday, 28th September, 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 34.0°C and 25.0°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.0°C at 0700 hrs. and 33.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 9.3 hours and 5.0 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(29 September- 3 October, 2018)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **34** | **35** | **35** | **35** | **35** | **Maximum temperature will remain between 34-35°C and the minimum between**  **25-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **25** |
| **Cloud cover (okta)** | **2** | **2** | **3** | **3** | **3** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **55** | **55** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(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. 70**  **Date: Friday, 28th September, 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 34.0°C and 25.0°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.0°C at 0700 hrs. and 33.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 9.3 hours and 5.0 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(29 September- 3 October, 2018)**

**(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **35** | **36** | **35** | **35** | **35** | **Maximum temperature will remain between 35-36°C and the minimum between**  **25-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **26** |
| **Cloud cover (okta)** | **2** | **2** | **4** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(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. 70**  **Date: Friday, 28th September, 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 34.0°C and 25.0°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.0°C at 0700 hrs. and 33.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 9.3 hours and 5.0 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(29 September- 3 October, 2018)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **35** | **36** | **35** | **35** | **35** | **Maximum temperature will remain between 35-36°C and the minimum between**  **24-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **2** | **2** | **4** | **4** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(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. 70**  **Date: Friday, 28th September, 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 34.0°C and 25.0°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.0°C at 0700 hrs. and 33.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 9.3 hours and 5.0 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(29 September- 3 October, 2018)**

**(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **34** | **35** | **35** | **35** | **35** | **Maximum temperature will remain between 34-35°C and the minimum between**  **25-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **25** |
| **Cloud cover (okta)** | **1** | **2** | **3** | **2** | **3** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **85** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **50** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **5** | **10** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(A. Sattar)**

**(Nodal Officer)**

|  |  |  |
| --- | --- | --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 70**  **Date: Friday, 28th September, 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**

**(29 September- 3 October, 2018)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **35** | **36** | **36** | **36** | **35** | **Maximum temperature will remain between 35-36°C and the minimum between**  **24-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **2** | **2** | **2** | **2** | **2** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(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. 70**  **Date: Friday, 28th September, 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 34.0°C and 25.0°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.0°C at 0700 hrs. and 33.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 9.3 hours and 5.0 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(29 September- 3 October, 2018)**

**(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **35** | **36** | **36** | **36** | **35** | **Maximum temperature will remain between 35-36°C and the minimum between**  **24-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **2** | **2** | **3** | **2** | **2** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **10** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(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. 70**  **Date: Friday, 28th September, 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 34.0°C and 25.0°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.0°C at 0700 hrs. and 33.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 9.3 hours and 5.0 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(29 September- 3 October, 2018)**

**(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **34** | **35** | **35** | **34** | **35** | **Maximum temperature will remain between 34-35°C and the minimum between**  **25-27°C.** |
| **Mini. T (°C)** | **27** | **26** | **26** | **25** | **25** |
| **Cloud cover (okta)** | **3** | **2** | **3** | **0** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **90** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **66** | **60** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(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. 70**  **Date: Friday, 28th September, 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 34.0°C and 25.0°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.0°C at 0700 hrs. and 33.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 9.3 hours and 5.0 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(29 September- 3 October, 2018)**

**(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **35** | **35** | **35** | **36** | **35** | **Maximum temperature will remain between 35-36°C and the minimum between**  **25-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **26** | **25** | **25** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **2** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **90** | **90** | **85** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **10** | **10** | **15** | **15** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(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. 70**  **Date: Friday, 28th September, 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 34.0°C and 25.0°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.0°C at 0700 hrs. and 33.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 9.3 hours and 5.0 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(29 September- 3 October, 2018)**

**(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **34** | **35** | **35** | **36** | **35** | **Maximum temperature will remain between 34-36°C and the minimum between**  **24-26°C.** |
| **Mini. T (°C)** | **25** | **26** | **25** | **25** | **24** |
| **Cloud cover (okta)** | **2** | **3** | **3** | **2** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **90** | **95** | **90** | **90** | **85** |  |
| **Min Relative Humidity (%)** | **60** | **60** | **55** | **55** | **55** |  |
| **Wind speed (kmph)** | **10** | **15** | **15** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(A. Sattar)**

**(Nodal Officer)**

|  |  |  |
| --- | --- | --- |
| **GRAMIN KRISHI MAUSAM SEWA (GKMS)**  **AGRO-METEOROLOGY DIVISION**  **Dr. Rajendra Prasad Central Agricultural University, Pusa**  **Samastipur, Bihar -848 125** | | |
| **Bulletin No. 70**  **Date: Friday, 28th September, 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**

**(29 September- 3 October, 2018)**

**(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **35** | **36** | **35** | **35** | **35** | **Maximum temperature will remain between 35-36°C and the minimum between**  **25-27°C.** |
| **Mini. T (°C)** | **27** | **26** | **26** | **25** | **25** |
| **Cloud cover (okta)** | **2** | **2** | **3** | **0** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **65** | **60** | **60** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(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. 70**  **Date: Friday, 28th September, 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 34.0°C and 25.0°C respectively. Average relative humidity was 83 percent at 0700 hrs. and 67 percent at 1400 hrs. Soil temperature at 5 cm depth was 29.0°C at 0700 hrs. and 33.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 3.0km/hr, 9.3 hours and 5.0 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(29 September- 3 October, 2018)**

**(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **35** | **36** | **35** | **35** | **35** | **Maximum temperature will remain between 35-36°C and the minimum between**  **25-26°C.** |
| **Mini. T (°C)** | **26** | **25** | **25** | **26** | **25** |
| **Cloud cover (okta)** | **3** | **3** | **2** | **0** | **0** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **60** | **55** | **55** |  |
| **Wind speed (kmph)** | **15** | **15** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
| Brinjal | Flowering/  Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If population of pest is exceeds ETL (Economic Threshold Level), spraying of Spinosad 48 EC @1ml/4 liters of water or Quinalphos 25 EC @1.5ml/litre of water is advised. Infested fruits and shoots should be collected and buried before spraying. |
| Vegetables  Nursery | - | Regular monitoring of sucking insect-pests such as white fly, leaf hopper and aphid is advised in vegetables nursery of chilli, brinjal and tomato. These insect-pests work as vector to transmit diseases from the diseased to healthy plants in the nursery. For prevention, spraying of Imidaclorprid17.8 %SL @ 0.3ml/liter of water is advised. |
| Rice | Vegetative to reproduction | * In view of dry weather condition, farmers are advised to give life saving irrigation in paddy crop, which is in reproductive stage. Moisture stress at this stage would negatively impact the production. * Monitoring of gundhi bug is advised in early transplanted paddy crop, which is in milk stage. It causes appreciable damage during this stage. The nymph and adults of insect-pest suck the juice from the developing grains in thestage, causing incompletely filled panicles or panicle with empty grains causing them chaffy. Due to repugnant smell emitted from this pest, it could be easily identified in the field. If the number of pest exceeds ETL (Economic Threshold Limit) value, dusting of Folidol dust@10-15 kg per hectare is advised for suppressing the bug population in the crop field. The bunds and grasses around paddy crop may also be dusted. |
| Fallow land | - | Present time is suitable for application of FYM in fallow land. Farmers are advised to arrange well decomposed FYM at the earliest. Application of FYM@150-200 quintal/ha is advised, It increases the water use efficiency as well as nutrient availability in the soil. |

**(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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**Medium Range Weather Forecast**

**(29 September- 3 October, 2018)**

**(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **29**  **September** | **30**  **September** | **1**  **October** | **2**  **October** | **3**  **October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Mainly dry condition** |
| **Max. T (°C)** | **35** | **36** | **35** | **35** | **35** | **Maximum temperature will remain between 35-36°C and the minimum between**  **25-26°C.** |
| **Mini. T (°C)** | **26** | **26** | **25** | **25** | **26** |
| **Cloud cover (okta)** | **0** | **3** | **3** | **4** | **3** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **95** | **95** | **90** | **90** | **90** |  |
| **Min Relative Humidity (%)** | **65** | **65** | **65** | **60** | **60** |  |
| **Wind speed (kmph)** | **15** | **10** | **10** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Easterly** | **Easterly** | **Easterly** | **Westerly/Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| All standing crops | - | In view of dry weather, farmers are advised to give irrigation in standing crops as priority bases. Intercultural operation is also suggested. |
| Cauliflower | Nursery sowing/  Transplanting | * Monitoring of diamond back moth (DBM) in cauliflower is advised*.* The larva of insect-pest feeds on leaves makes bite holes and causes excessive defoliation mostly on the growing parts. Under severe damage, only network of veins remains left and head formation is rarely observed. If infestation is observed, spraying of Spinosad 1ml/4litres of water is advised. * Nursery sowing of late varieties of cauliflower such as *Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1* is advised. * Transplanting of mid duration varieties of cauliflower such as *Pusaaghani, Pusi, Patna men, Pusa synthetic-1, Pusashubhra, Pusasarad, Pusamedhna, Kaasikuwari, and early snowball* is advised. |
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**(A. Sattar)**

**(Nodal Officer)**