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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. 85****Date: Friday, 3 November, 2017**  | **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 29.0°C and 19.5°C respectively. Average relative humidity was 86 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.6°C at 0700 hrs. and 28.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2 km/hr, 8.7 hours and 2.6 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

**(Begusarai)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 32 | 32 | 32 | 32 | Maximum temperature will remain between31-32°C and the minimum around 17-20°C. |
| Mini. T (°C) | 17 | 17 | 17 | 17 | 17 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 75 | 75 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Westerly | Easterly | Easterly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 10-15 ton FYM ,50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare advised during land preparation. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow,Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala*varieties of hybrid maizeand*Dewki white, Lakshmi white and Suaan yellow* varieties of composite maize are recommended for sowing north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| Wheat | Land preparation | Land preparation is advised for sowing of wheat. Application of 150-200 quintals FYM manures/ha is advised during land preparation. |
| Kidney beans *(Rajma)* | Sowing | Sowing of *PDR-14(Udai), IIPR96-4(Amber) and IIPR98-5(Utkarsh)* varieties of kidney beans are advised for sowing north Bihar.  |
| Pea | Sowing | *Rachna, Malviya mater-15, Aparna, Harbhajan, Pusa prabhat* varieties of pea are suggested for sowing in north Bihar. Seed rate @75-80kg per hectare and planting distance of 30x10 cm is advised. Seed should be treated with Rhiozbium culture (5 packets /hectare). Application of 20kg nitrogen, 45 Kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

 **(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. 85****Date: Friday, 3 November, 2017**  | **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 29.0°C and 19.5°C respectively. Average relative humidity was 86 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.6°C at 0700 hrs. and 28.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2 km/hr, 8.7 hours and 2.6 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 31 | 30 | 30 | 31 | Maximum temperature will remain between 30-31°C and the minimum around 19-21°C. |
| Mini. T (°C) | 20 | 19 | 19 | 19 | 19 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Easterly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 10-15 ton FYM ,50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare advised during land preparation. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow,Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala*varieties of hybrid maizeand*Dewki white, Lakshmi white and Suaan yellow* varieties of composite maize are recommended for sowing north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| Wheat | Land preparation | Land preparation is advised for sowing of wheat. Application of 150-200 quintals FYM manures/ha is advised during land preparation. |
| Kidney beans *(Rajma)* | Sowing | Sowing of *PDR-14(Udai), IIPR96-4(Amber) and IIPR98-5(Utkarsh)* varieties of kidney beans are advised for sowing north Bihar.  |
| Pea | Sowing | *Rachna, Malviya mater-15, Aparna, Harbhajan, Pusa prabhat* varieties of pea are suggested for sowing in north Bihar. Seed rate @75-80kg per hectare and planting distance of 30x10 cm is advised. Seed should be treated with Rhiozbium culture (5 packets /hectare). Application of 20kg nitrogen, 45 Kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

 **(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. 85****Date: Friday, 3 November, 2017**  | **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 29.0°C and 19.5°C respectively. Average relative humidity was 86 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.6°C at 0700 hrs. and 28.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2 km/hr, 8.7 hours and 2.6 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 31 | 31 | 30 | 31 | Maximum temperature will remain between 31-32°C and the minimum around 18-21°C. |
| Mini. T (°C) | 19 | 19 | 19 | 18 | 19 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Easterly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 10-15 ton FYM ,50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare advised during land preparation. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow,Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala*varieties of hybrid maizeand*Dewki white, Lakshmi white and Suaan yellow* varieties of composite maize are recommended for sowing north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| Wheat | Land preparation | Land preparation is advised for sowing of wheat. Application of 150-200 quintals FYM manures/ha is advised during land preparation. |
| Kidney beans *(Rajma)* | Sowing | Sowing of *PDR-14(Udai), IIPR96-4(Amber) and IIPR98-5(Utkarsh)* varieties of kidney beans are advised for sowing north Bihar.  |
| Pea | Sowing | *Rachna, Malviya mater-15, Aparna, Harbhajan, Pusa prabhat* varieties of pea are suggested for sowing in north Bihar. Seed rate @75-80kg per hectare and planting distance of 30x10 cm is advised. Seed should be treated with Rhiozbium culture (5 packets /hectare). Application of 20kg nitrogen, 45 Kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

 **(A. Sattar)**

**(Nodal Officer)**

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**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 29.0°C and 19.5°C respectively. Average relative humidity was 86 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.6°C at 0700 hrs. and 28.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2 km/hr, 8.7 hours and 2.6 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 30 | 31 | 30 | 30 | 30 | Maximum temperature will remain between 31-32°C and the minimum around 18-20°C. |
| Mini. T (°C) | 19 | 19 | 20 | 19 | 19 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Easterly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 10-15 ton FYM ,50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare advised during land preparation. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow,Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala*varieties of hybrid maizeand*Dewki white, Lakshmi white and Suaan yellow* varieties of composite maize are recommended for sowing north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| Wheat | Land preparation | Land preparation is advised for sowing of wheat. Application of 150-200 quintals FYM manures/ha is advised during land preparation. |
| Kidney beans *(Rajma)* | Sowing | Sowing of *PDR-14(Udai), IIPR96-4(Amber) and IIPR98-5(Utkarsh)* varieties of kidney beans are advised for sowing north Bihar.  |
| Pea | Sowing | *Rachna, Malviya mater-15, Aparna, Harbhajan, Pusa prabhat* varieties of pea are suggested for sowing in north Bihar. Seed rate @75-80kg per hectare and planting distance of 30x10 cm is advised. Seed should be treated with Rhiozbium culture (5 packets /hectare). Application of 20kg nitrogen, 45 Kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
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| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 32 | 32 | 31 | 31 | Maximum temperature will remain between 31-32°C and the minimum around 18-20°C. |
| Mini. T (°C) | 18 | 19 | 18 | 17 | 17 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Easterly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
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| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

**(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(Muzaffarpur)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 31 | 32 | 32 | 31 | Maximum temperature will remain between 31-32°C and the minimum around 18-21°C. |
| Mini. T (°C) | 20 | 20 | 19 | 19 | 19 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Easterly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 10-15 ton FYM ,50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare advised during land preparation. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow,Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala*varieties of hybrid maizeand*Dewki white, Lakshmi white and Suaan yellow* varieties of composite maize are recommended for sowing north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| Wheat | Land preparation | Land preparation is advised for sowing of wheat. Application of 150-200 quintals FYM manures/ha is advised during land preparation. |
| Kidney beans *(Rajma)* | Sowing | Sowing of *PDR-14(Udai), IIPR96-4(Amber) and IIPR98-5(Utkarsh)* varieties of kidney beans are advised for sowing north Bihar.  |
| Pea | Sowing | *Rachna, Malviya mater-15, Aparna, Harbhajan, Pusa prabhat* varieties of pea are suggested for sowing in north Bihar. Seed rate @75-80kg per hectare and planting distance of 30x10 cm is advised. Seed should be treated with Rhiozbium culture (5 packets /hectare). Application of 20kg nitrogen, 45 Kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

 **(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. 85****Date: Friday, 3 November, 2017**  | **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 29.0°C and 19.5°C respectively. Average relative humidity was 86 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.6°C at 0700 hrs. and 28.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2 km/hr, 8.7 hours and 2.6 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 32 | 32 | 32 | 31 | Maximum temperature will remain between 30-31°C and the minimum around 18-20°C. |
| Mini. T (°C) | 20 | 19 | 19 | 18 | 18 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 2 | 2 |  |
| Wind direction(deg) | Easterly | Easterly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 10-15 ton FYM ,50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare advised during land preparation. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow,Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala*varieties of hybrid maizeand*Dewki white, Lakshmi white and Suaan yellow* varieties of composite maize are recommended for sowing north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| Wheat | Land preparation | Land preparation is advised for sowing of wheat. Application of 150-200 quintals FYM manures/ha is advised during land preparation. |
| Kidney beans *(Rajma)* | Sowing | Sowing of *PDR-14(Udai), IIPR96-4(Amber) and IIPR98-5(Utkarsh)* varieties of kidney beans are advised for sowing north Bihar.  |
| Pea | Sowing | *Rachna, Malviya mater-15, Aparna, Harbhajan, Pusa prabhat* varieties of pea are suggested for sowing in north Bihar. Seed rate @75-80kg per hectare and planting distance of 30x10 cm is advised. Seed should be treated with Rhiozbium culture (5 packets /hectare). Application of 20kg nitrogen, 45 Kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

 **(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. 85****Date: Friday, 3 November, 2017**  | **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 29.0°C and 19.5°C respectively. Average relative humidity was 86 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.6°C at 0700 hrs. and 28.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2 km/hr, 8.7 hours and 2.6 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 31 | 32 | 32 | 31 | Maximum temperature will remain between 31-32°C and the minimum around 18-20°C. |
| Mini. T (°C) | 20 | 20 | 20 | 19 | 19 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Westerly | Westerly | Easterly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 10-15 ton FYM ,50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare advised during land preparation. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow,Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala*varieties of hybrid maizeand*Dewki white, Lakshmi white and Suaan yellow* varieties of composite maize are recommended for sowing north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| Wheat | Land preparation | Land preparation is advised for sowing of wheat. Application of 150-200 quintals FYM manures/ha is advised during land preparation. |
| Kidney beans *(Rajma)* | Sowing | Sowing of *PDR-14(Udai), IIPR96-4(Amber) and IIPR98-5(Utkarsh)* varieties of kidney beans are advised for sowing north Bihar.  |
| Pea | Sowing | *Rachna, Malviya mater-15, Aparna, Harbhajan, Pusa prabhat* varieties of pea are suggested for sowing in north Bihar. Seed rate @75-80kg per hectare and planting distance of 30x10 cm is advised. Seed should be treated with Rhiozbium culture (5 packets /hectare). Application of 20kg nitrogen, 45 Kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

 **(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. 85****Date: Friday, 3 November, 2017**  | **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 29.0°C and 19.5°C respectively. Average relative humidity was 86 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.6°C at 0700 hrs. and 28.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2 km/hr, 8.7 hours and 2.6 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 31 | 31 | 30 | 31 | Maximum temperature will remain between 30-32°C and the minimum around 18-21°C. |
| Mini. T (°C) | 19 | 19 | 19 | 18 | 19 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Easterly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 10-15 ton FYM ,50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare advised during land preparation. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow,Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala*varieties of hybrid maizeand*Dewki white, Lakshmi white and Suaan yellow* varieties of composite maize are recommended for sowing north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| Wheat | Land preparation | Land preparation is advised for sowing of wheat. Application of 150-200 quintals FYM manures/ha is advised during land preparation. |
| Kidney beans *(Rajma)* | Sowing | Sowing of *PDR-14(Udai), IIPR96-4(Amber) and IIPR98-5(Utkarsh)* varieties of kidney beans are advised for sowing north Bihar.  |
| Pea | Sowing | *Rachna, Malviya mater-15, Aparna, Harbhajan, Pusa prabhat* varieties of pea are suggested for sowing in north Bihar. Seed rate @75-80kg per hectare and planting distance of 30x10 cm is advised. Seed should be treated with Rhiozbium culture (5 packets /hectare). Application of 20kg nitrogen, 45 Kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

 **(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. 85****Date: Friday, 3 November, 2017**  | **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 29.0°C and 19.5°C respectively. Average relative humidity was 86 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.6°C at 0700 hrs. and 28.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2 km/hr, 8.7 hours and 2.6 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(Sitamadhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 31 | 30 | 30 | 31 | Maximum temperature will remain between 31-32°C and the minimum around 18-21°C. |
| Mini. T (°C) | 18 | 19 | 18 | 18 | 19 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Easterly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 10-15 ton FYM ,50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare advised during land preparation. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow,Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala*varieties of hybrid maizeand*Dewki white, Lakshmi white and Suaan yellow* varieties of composite maize are recommended for sowing north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| Wheat | Land preparation | Land preparation is advised for sowing of wheat. Application of 150-200 quintals FYM manures/ha is advised during land preparation. |
| Kidney beans *(Rajma)* | Sowing | Sowing of *PDR-14(Udai), IIPR96-4(Amber) and IIPR98-5(Utkarsh)* varieties of kidney beans are advised for sowing north Bihar.  |
| Pea | Sowing | *Rachna, Malviya mater-15, Aparna, Harbhajan, Pusa prabhat* varieties of pea are suggested for sowing in north Bihar. Seed rate @75-80kg per hectare and planting distance of 30x10 cm is advised. Seed should be treated with Rhiozbium culture (5 packets /hectare). Application of 20kg nitrogen, 45 Kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

 **(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. 85****Date: Friday, 3 November, 2017**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 30 | 31 | 30 | 30 | 30 | Maximum temperature will remain between 30-32°C and the minimum around 18-21°C. |
| Mini. T (°C) | 19 | 19 | 20 | 19 | 19 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Easterly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 10-15 ton FYM ,50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare advised during land preparation. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow,Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala*varieties of hybrid maizeand*Dewki white, Lakshmi white and Suaan yellow* varieties of composite maize are recommended for sowing north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| Wheat | Land preparation | Land preparation is advised for sowing of wheat. Application of 150-200 quintals FYM manures/ha is advised during land preparation. |
| Kidney beans *(Rajma)* | Sowing | Sowing of *PDR-14(Udai), IIPR96-4(Amber) and IIPR98-5(Utkarsh)* varieties of kidney beans are advised for sowing north Bihar.  |
| Pea | Sowing | *Rachna, Malviya mater-15, Aparna, Harbhajan, Pusa prabhat* varieties of pea are suggested for sowing in north Bihar. Seed rate @75-80kg per hectare and planting distance of 30x10 cm is advised. Seed should be treated with Rhiozbium culture (5 packets /hectare). Application of 20kg nitrogen, 45 Kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

 **(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. 85****Date: Friday, 3 November, 2017**  | **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 29.0°C and 19.5°C respectively. Average relative humidity was 86 percent at 0700 hrs. and 61 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.6°C at 0700 hrs. and 28.2°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 2.2 km/hr, 8.7 hours and 2.6 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 32 | 32 | 32 | 32 | Maximum temperature will remain between 30-32°C and the minimum around 18-21°C. |
| Mini. T (°C) | 18 | 19 | 18 | 18 | 19 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 40 | 40 | 40 | 40 | 40 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Easterly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 10-15 ton FYM ,50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare advised during land preparation. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow,Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala*varieties of hybrid maizeand*Dewki white, Lakshmi white and Suaan yellow* varieties of composite maize are recommended for sowing north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| Wheat | Land preparation | Land preparation is advised for sowing of wheat. Application of 150-200 quintals FYM manures/ha is advised during land preparation. |
| Kidney beans *(Rajma)* | Sowing | Sowing of *PDR-14(Udai), IIPR96-4(Amber) and IIPR98-5(Utkarsh)* varieties of kidney beans are advised for sowing north Bihar.  |
| Pea | Sowing | *Rachna, Malviya mater-15, Aparna, Harbhajan, Pusa prabhat* varieties of pea are suggested for sowing in north Bihar. Seed rate @75-80kg per hectare and planting distance of 30x10 cm is advised. Seed should be treated with Rhiozbium culture (5 packets /hectare). Application of 20kg nitrogen, 45 Kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| Lentil*(Masur)* | Sowing | Sowing of lentil is advised. *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* varieties are recommended for sowing in north Bihar.  |
| Paddy | Harvesting | Harvesting and threshing of paddy is advised going top priority.  |
| Cauliflower | Bulb forming | Monitoring of leaf eating caterpillar is advised in cauliflower*.*If infestation occurs, spraying of Spinosad 48 EC @ 1ml/4 litres of water is advised to protect the crop. |
| Brinjal/Tomato | Flowering/Fruiting | Monitoring is advised for infestation of fruit and shoot borer in brinjal/tomato. Application of 1.0 gram Carbofuran 3 G per plant is advised near root zone after ten days of planting. If pest population is above ETL (Economic Threshold Level), then spraying of Spinosad 48 EC @1ml/4 Liter of water is advised. Infested fruits and shoots should be collected and buried before spraying. |

 **(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. 85****Date: Friday, 3 November, 2017**  | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

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**Medium Range Weather Forecast**

 **(4th -8th November, 2017)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **4th** **November** | **5th****November** | **6th****November** | **7th** **November** | **8th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 31 | 31 | 30 | 31 | Maximum temperature will remain between 30-32°C and the minimum around 18-21°C. |
| Mini. T (°C) | 19 | 19 | 19 | 18 | 19 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 0 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 5 | 5 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Easterly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Potato | Sowing | Planting of potato is advised. *Kufri jyoti, Kufri ashoka, Kufri pukharaj, Kufri chandramukhi, Kufri badhsha, Kufri lalima,Kufri sinduri, Kufri arun, Kufri girdhari, Kufri sadabahar,Kufri anand,Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3,*varieties are recommended for planting in north Bihar region. Seed rate@25-30q/ha and line to line 50-60cm and plant to plant 15-20cm planting distance are advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
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 **(A. Sattar)**

**(Nodal Officer)**