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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. 87****Date: Friday, 10 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 28.8°C and 16.6°C respectively. Average relative humidity was 89 percent at 0700 hrs. and 62 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.1°C at 0700 hrs. and 27.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.0 km/hr, 6.1 hours and 1.8 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

**(Begusarai)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 30 | 30 | 30 | 29 | 29 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 18 | 18 | 18 | 18 | 17 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 1 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 3 | 6 | 6 | 6 | 3 |  |
| Wind direction(deg) | Easterly | Westerly | 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 distance of 50-60cm and plant to plant 15-20cm are advised. Application of 200-250 q/ha FYM, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation.  |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 150-200 q/ha FYM, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| Maize | Sowing | Sowing of *rabi* maize is advised. Application of 100-150 q/ha FYM, 50 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

**(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** |
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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 28.8°C and 16.6°C respectively. Average relative humidity was 89 percent at 0700 hrs. and 62 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.1°C at 0700 hrs. and 27.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.0 km/hr, 6.1 hours and 1.8 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(Darbhanga)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 30 | 30 | 30 | 30 | 30 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 17 | 17 | 16 | 16 | 17 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 2 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 2 | 2 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Westerly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

 **(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. 87****Date: Friday, 10 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 28.8°C and 16.6°C respectively. Average relative humidity was 89 percent at 0700 hrs. and 62 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.1°C at 0700 hrs. and 27.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.0 km/hr, 6.1 hours and 1.8 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 29 | 29 | 29 | 29 | 28 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 17 | 17 | 16 | 16 | 18 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 1 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 3 | 3 | 3 | 7 | 4 |  |
| Wind direction(deg) | Easterly | Easterly | Easterly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

 **(A. Sattar)**

**(Nodal Officer)**

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**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 29 | 29 | 30 | 30 | 29 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 18 | 18 | 17 | 17 | 17 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 1 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 3 | 3 | 3 | 7 | 4 |  |
| Wind direction(deg) | Easterly | Westerly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
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 **(A. Sattar)**

**(Nodal Officer)**

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**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 31 | 31 | 31 | 31 | 31 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 15 | 16 | 16 | 16 | 16 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 1 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 2 | 2 | 5 | 5 | 5 |  |
| Wind direction(deg) | Easterly | Westerly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
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| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
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| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

**(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. 87****Date: Friday, 10 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 28.8°C and 16.6°C respectively. Average relative humidity was 89 percent at 0700 hrs. and 62 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.1°C at 0700 hrs. and 27.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.0 km/hr, 6.1 hours and 1.8 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 29 | 30 | 30 | 30 | 29 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 19 | 18 | 18 | 18 | 18 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 1 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 2 | 5 | 6 | 5 | 6 |  |
| Wind direction(deg) | Easterly | Westerly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

 **(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. 87****Date: Friday, 10 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 28.8°C and 16.6°C respectively. Average relative humidity was 89 percent at 0700 hrs. and 62 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.1°C at 0700 hrs. and 27.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.0 km/hr, 6.1 hours and 1.8 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 30 | 30 | 30 | 29 | 29 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 18 | 18 | 18 | 18 | 17 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 1 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 3 | 6 | 6 | 6 | 3 |  |
| Wind direction(deg) | Easterly | Westerly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

 **(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. 87****Date: Friday, 10 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 28.8°C and 16.6°C respectively. Average relative humidity was 89 percent at 0700 hrs. and 62 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.1°C at 0700 hrs. and 27.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.0 km/hr, 6.1 hours and 1.8 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 29 | 29 | 29 | 29 | 28 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 17 | 17 | 16 | 16 | 16 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 1 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 2 | 5 | 6 | 5 | 6 |  |
| Wind direction(deg) | Easterly | Westerly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

 **(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. 87****Date: Friday, 10 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 28.8°C and 16.6°C respectively. Average relative humidity was 89 percent at 0700 hrs. and 62 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.1°C at 0700 hrs. and 27.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.0 km/hr, 6.1 hours and 1.8 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 29 | 29 | 30 | 29 | 28 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 18 | 17 | 16 | 17 | 16 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 2 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 4 | 4 | 2 | 5 | 6 |  |
| Wind direction(deg) | Easterly | Westerly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

 **(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. 87****Date: Friday, 10 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 28.8°C and 16.6°C respectively. Average relative humidity was 89 percent at 0700 hrs. and 62 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.1°C at 0700 hrs. and 27.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.0 km/hr, 6.1 hours and 1.8 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(Sitamadhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 29 | 29 | 29 | 29 | 28 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 18 | 17 | 17 | 17 | 16 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 2 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 4 | 4 | 2 | 5 | 6 |  |
| Wind direction(deg) | Easterly | Westerly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

 **(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. 87****Date: Friday, 10 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 28.8°C and 16.6°C respectively. Average relative humidity was 89 percent at 0700 hrs. and 62 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.1°C at 0700 hrs. and 27.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.0 km/hr, 6.1 hours and 1.8 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 29 | 29 | 29 | 29 | 28 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 17 | 17 | 16 | 16 | 16 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 1 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 3 | 3 | 3 | 7 | 4 |  |
| Wind direction(deg) | Easterly | Westerly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

 **(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. 87****Date: Friday, 10 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 28.8°C and 16.6°C respectively. Average relative humidity was 89 percent at 0700 hrs. and 62 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.1°C at 0700 hrs. and 27.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.0 km/hr, 6.1 hours and 1.8 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 29 | 28 | 29 | 29 | 29 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 17 | 17 | 16 | 16 | 17 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 1 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 0 | 5 | 6 | 6 | 6 |  |
| Wind direction(deg) | Easterly | Westerly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

 **(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. 87****Date: Friday, 10 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 28.8°C and 16.6°C respectively. Average relative humidity was 89 percent at 0700 hrs. and 62 percent at 1400 hrs. Soil temperature at 5 cm depth was 20.1°C at 0700 hrs. and 27.4°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.0 km/hr, 6.1 hours and 1.8 mm respectively. Mainly dry weather prevailed during this period.

**Medium Range Weather Forecast**

 **(11th -15th November, 2017)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **11th** **November** | **12th****November** | **13th****November** | **14th** **November** | **15th** **November** | **Remarks** |
| Rainfall(mm) | 0 | 0 | 0 | 0 | 0 | Mainly dry |
| Max. T (°C) | 29 | 29 | 29 | 29 | 28 | Maximum temperature will remain between28-30°C and the minimum around 16-18°C. |
| Mini. T (°C) | 17 | 17 | 16 | 16 | 18 |
| Cloud cover (okta) | 0 | 0 | 0 | 0 | 1 |  |
| Max Relative Humidity (%) | 70 | 70 | 70 | 70 | 70 |  |
| Min Relative Humidity (%) | 30 | 30 | 30 | 30 | 30 |  |
| Wind speed (kmph) | 3 | 3 | 3 | 7 | 4 |  |
| Wind direction(deg) | Easterly | Westerly | Westerly | Easterly | Easterly | Westerly/Easterly |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| Crops | Phenophases | Advisory (Based on weather forecast) |
| Paddy | Harvesting | As weather would remain clear during the forecast period farmers are advised to complete the harvesting and threshing of paddy giving top priority. |
| Wheat | Land preparation | Land preparation is advised for wheat sowing. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised during land preparation. *PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39* varieties are recommended for timely sowing of wheat. Farmers may start the wheat sowing from 15th November. |
| Gram | Sowing | Sowing of gram is advised. *Pusa-256, KPG-59(Udai), and Pusa-372* varieties are recommended for sowing in north Bihar region. Seed should be treated with Vitavax@2gm/kg. To protect against *kajla caterpillar (cut worm)*, seed should be treated with chlorpyrifos@8ml/kg. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulpher per hectare is advised during land preparation. Seed rate@75-80 kg/ha and distance of 30cm X 10cm is advised.  |
| 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 distance of 50-60cm and plant to plant 15-20cm 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 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 north Bihar. Seed rate@ 20kg/ha is advised. Seed should be treated with Thiram @2.5g /kg of seed.  |
| 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. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains and line to line distance of 30cm is advised. Seed should be treated with rhizobium culture (5packets/hectare). Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation.  |
| 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.  |
| Carrot | Sowing | Sowing of carrot is advised. *Pusa kesar, Pusa meghali, Pusa yamdajini, Amarican beauty ,Kalyanpur yellow, and Naintes*varieties are recommended for sowing. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is suggested. |

 **(A. Sattar)**

**(Nodal Officer)**