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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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 31.2°C and 19.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 24.5°C at 0700 hrs. and 31.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.9 km/hr, 8.0 hours and 3.1 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **34** | **34** | **33** | **33** | **32** | **-** |
| **Mini. T (°C)** | **21** | **21** | **20** | **20** | **20** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **45** | **45** |  |
| **Wind speed (kmph)** | **3** | **3** | **3** | **3** | **2** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

**(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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 31.2°C and 19.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 24.5°C at 0700 hrs. and 31.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.9 km/hr, 8.0 hours and 3.1 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

**(Darbhanga)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **32** | **32** | **32** | **31** | **31** | **-** |
| **Mini. T (°C)** | **21** | **21** | **20** | **20** | **20** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **80** | **80** | **80** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **45** | **45** |  |
| **Wind speed (kmph)** | **3** | **3** | **3** | **3** | **2** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

 **(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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 31.2°C and 19.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 24.5°C at 0700 hrs. and 31.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.9 km/hr, 8.0 hours and 3.1 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

 **(East Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **31** | **31** | **30** | **30** | **31** | **-** |
| **Mini. T (°C)** | **18** | **18** | **18** | **17** | **17** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **75** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **35** | **35** | **35** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **3** | **3** | **3** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

 **(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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 31.2°C and 19.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 24.5°C at 0700 hrs. and 31.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.9 km/hr, 8.0 hours and 3.1 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

**(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **31** | **31** | **31** | **31** | **31** | **-** |
| **Mini. T (°C)** | **22** | **22** | **21** | **21** | **21** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | 75 | 70 | 70 | 70 |  |
| **Min Relative Humidity (%)** | **40** | **40** | **35** | **35** | **30** |  |
| **Wind speed (kmph)** | **3** | **3** | **3** | **3** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

 **(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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **33** | **33** | **32** | **32** | **31** | **-** |
| **Mini. T (°C)** | **20** | **20** | **19** | **19** | **18** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | 75 | 70 | 70 | 70 |  |
| **Min Relative Humidity (%)** | **40** | **40** | **35** | **35** | **30** |  |
| **Wind speed (kmph)** | **5** | **3** | **5** | **3** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

**(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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 31.2°C and 19.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 24.5°C at 0700 hrs. and 31.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.9 km/hr, 8.0 hours and 3.1 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

**(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **31** | **30** | **30** | **30** | **29** | **-** |
| **Mini. T (°C)** | **20** | **19** | **19** | **18** | **18** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | 75 | 70 | 70 | 70 |  |
| **Min Relative Humidity (%)** | **35** | **35** | **35** | **35** | **30** |  |
| **Wind speed (kmph)** | **5** | **3** | **3** | **3** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

 **(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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 31.2°C and 19.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 24.5°C at 0700 hrs. and 31.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.9 km/hr, 8.0 hours and 3.1 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **31** | **30** | **30** | **30** | **30** | **-** |
| **Mini. T (°C)** | **20** | **19** | **19** | **18** | **18** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | 75 | 70 | 70 | 70 |  |
| **Min Relative Humidity (%)** | **40** | **40** | **35** | **35** | **30** |  |
| **Wind speed (kmph)** | **5** | **3** | **3** | **3** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

 **(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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 31.2°C and 19.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 24.5°C at 0700 hrs. and 31.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.9 km/hr, 8.0 hours and 3.1 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **32** | **32** | **31** | **31** | **31** | **-** |
| **Mini. T (°C)** | **20** | **19** | **19** | **18** | **18** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | 75 | 70 | 70 | 70 |  |
| **Min Relative Humidity (%)** | **40** | **40** | **35** | **35** | **30** |  |
| **Wind speed (kmph)** | **5** | **3** | **3** | **3** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

 **(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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 31.2°C and 19.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 24.5°C at 0700 hrs. and 31.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.9 km/hr, 8.0 hours and 3.1 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **32** | **31** | **31** | **31** | **31** | **-** |
| **Mini. T (°C)** | **18** | **18** | **18** | **17** | **17** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

 **(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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 31.2°C and 19.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 24.5°C at 0700 hrs. and 31.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.9 km/hr, 8.0 hours and 3.1 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

 **(Sitamarhi)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **32** | **31** | **31** | **31** | **31** | **-** |
| **Mini. T (°C)** | **18** | **18** | **18** | **17** | **17** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **85** | **85** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **40** |  |
| **Wind speed (kmph)** | **5** | **3** | **3** | **3** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

 **(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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 31.2°C and 19.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 24.5°C at 0700 hrs. and 31.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.9 km/hr, 8.0 hours and 3.1 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

**(Siwan)**

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| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **32** | **32** | **31** | **31** | **31** | **-** |
| **Mini. T (°C)** | **19** | **19** | **19** | **18** | **18** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **85** | 85 | 85 | 75 | 75 |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **45** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

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| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

 **(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. 76****Date: Tuesday, 23rd October, 2018** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  **Phone No : 06274-240266** |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 31.2°C and 19.8°C respectively. Average relative humidity was 93 percent at 0700 hrs. and 50 percent at 1400 hrs. Soil temperature at 5 cm depth was 24.5°C at 0700 hrs. and 31.0°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 1.9 km/hr, 8.0 hours and 3.1 mm respectively. No rainfall was recorded during this period.

**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

**(Vaishali)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **32** | **31** | **31** | **31** | **31** | **-** |
| **Mini. T (°C)** | **19** | **19** | **19** | **19** | **18** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **85** | **85** | **85** | **85** | **75** |  |
| **Min Relative Humidity (%)** | **40** | **40** | **40** | **40** | **45** |  |
| **Wind speed (kmph)** | **5** | **5** | **5** | **5** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

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| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
 |
| *Rabi* onion | Nursery sowing | Nursery sowing of *rabi* onion is advised*.* The size of seedbed should be 1.0 meter in length and 3-5 meter in width. *Agri Found Light Red, Arka Niketen, N-2-4-1, Pusa-Red, Bhimaraj and Nashik Red* varieties of *rabi* onion are recommended for sowing in north Bihar. Seed rate@8-10 kg/hectare is advised. Always use treated seeds for healthy seedlings. |
| Garlic | Sowing | Sowing of Garlic is advised. *Godawari(Selection-1),Shweta(Selection-10), Agrifound dark red(G-11),Agrifound white(G-41),Jamuna Safed-2(G-50), Jamuna Safed-3(G-282), and Jamuna Safed-4 (G-323), G-1 and RAU(G-5)*varieties of garlic are suitable for sowing in north Bihar. Seed rate@300-500 kg claws/ha and planting distance of 15 cm x10cm is advised. Application of 20-25 ton FYM/ha, 60kg nitrogen, 80 kg phosphorous, 80 kg potash and 20-40 kg sulphur per hectare is advised before sowing. |
| Pea | Sowing | *Rachna, Malviya Mater-15, Aparna, Harbhajan, Pusa Prabhat* varieties of pea are recommended 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 before sowing.  |
| Coriander | Sowing | Sowing of coriander is advised. *Rajendraswati, Pant haritima, Kumarganj selection and Hisaranand* varieties of coriander are recommended for sowing in north Bihar. Seed rate@18-20kg/ha and planting distance 30X20 cm is advised. Application of 30 kg nitrogen, 40 kg phosphorus and 30kg potash per hectare is advised before sowing. Seed should be treated with Carbendazim @2.5g/Kg of seed. For better seed germination and seedlings establishment, seeds of coriander are to be brushed up with both hands.  |
| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

 **(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
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**Medium Range Weather Forecast**

**(24- 28 October, 2018)**

 **(West Champaran)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **24****October** | **25****October** | **26****October** | **27****October** | **28****October** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **0** | **0** | **0** | **Dry weather** |
| **Max. T (°C)** | **31** | **31** | **30** | **30** | **31** | **-** |
| **Mini. T (°C)** | **18** | **18** | **18** | **17** | **17** |
| **Cloud cover (okta)** | **0** | **0** | **0** | **0** | **0** | **Mainly clear sky** |
| **Max Relative Humidity (%)** | **75** | **75** | **75** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **35** | **35** | **35** | **30** | **30** |  |
| **Wind speed (kmph)** | **5** | **3** | **3** | **3** | **5** |  |
| **Wind direction(deg)** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** | **Westerly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| Paddy | Ripening | In view of dry weather, harvesting of matured crop of paddy is advised. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done.  |
| *Rabi* crops | Land preparation | * Field sanitization and land preparation is advised for rabi crops such as maize, gram and potato. Bunds, channels and fields roads should be also cleaned by removing of weeds. Application of well decomposed FYM@150-200 quintal/ha is advised. Ploughing and planking should be done properly to conserve the moisture in the soil.
* Farmers are advised to ensure optimum soil moisture at the time of sowing of rabi crops for proper germination and crop establishment. If soil moisture is found lacking, pre-sowing irrigation is suggested.
 |
| Rai | Sowing | * Complete the sowing of mustard *(yellow sarson) at the earliest.* After germination, plant to plant spacing should be maintained at 12-15 cm by thinning.
* Sowing of *rai* is advised. *Baruna, Pusa bold, Kranti, Pusa mahak and Rajendra suflam* varieties of *rai* are recommended for sowing in north Bihar region. Seed rate@5kg per hectare and planting distance 30x15 cm is advised. Line sowing is beneficial. Application of 40 kg nitrogen, 40 kg phosphorous, 40 kg potassium and 30-40 kg sulphur per hectare is advised before sowing.
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| Lentil | Sowing | Sowing of lentil is advised.*Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5 and WVL-77*varieties of lentil are recommended for sowing in north Bihar. Seed rate@30-35 kg/ha for small grains and 40-45 kg/ha for large grains with planting distance of 30cm is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised during land preparation. Treated seed should be used.  |

 **(A. Sattar)**

**(Nodal Officer)**