

NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

13 November 2019 (WEDNESDAY) [FOR THE PERIOD 13.11.2019 - 17.11.2019]









DISCLAIMER

Under the Agro-meteorological Information System Development Project, Agromet Advisory Service Bulletins at National & Sixty Four (64) districts have been prepared on experimental basis. These bulletins are being displayed through the website of Department of Agricultural Extension for valuable comments/ suggestions from all concerned.

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ISSUED BY

Agro-Meteorological Information Systems
Development Project
Department of Agricultural Extension (DAE)
Ministry of Agriculture
In collaboration with Bangladesh
Meteorological Department

Salient Agromet Advisories

As per the weather forecast received from the Bangladesh Meteorological Department (BMD), weather may remain dry with temporary partly cloudy sky over the country during next 24 hours. Light fog is likely to occur at places over the country during early morning. Night and day temperature may remain nearly unchanged over the country. As per the medium range quantitative district level weather forecast issued by BMD, dry condition will prevail over the country for next five days. As a result, it is advised to apply irrigation, pesticides and fertilizers and intercultural operation for those districts where no significant rainfall occurred during last one week. Though flood water is receding mainly in the coastal districts, there may be either stagnation of water or sufficient moisture in the soil. Considering the realized weather along with weather forecast, soil condition and state and stage of the crops, agromet advisories are issued for different districts separately. Following are the salient agromet advisories for those districts which are affected by flood water and heavy rain during last week. Salient Agromet Advisories for livestock, poultry and fishery are also mentioned.

Agromet Advisories for Non-Flood Affected Areas

- Drain out excess water from the crop field. At panicle initiation to hardening of grain stages, 2-5 cm water level should be maintained.
- Continuous monitoring of the economically harmful insects like stem borer, leaf roller, sheath blight, blast, brown spot, leaf blight, Gandhi bug, Brown Plant Hopper (BPH) should be done. Monitoring at 2-3 days interval is advised. For this light trap should be used. Light trap should be placed at some distance from the crop and bulb should be lightened from evening 06.30 PM to 10.30 PM and collected insects should be destroyed in the morning hours. Since fair weather is predicted in the coming 5 days, farmers can continue spraying of insecticides/ fungicides in the field after draining out excess water from the field.
- For management of blast disease in paddy at booting stage, carry out alternative wetting and drying without cracking of the soil. Spray Nativo 75wg/ Trooper@ 0.6g/litre of water or Amister top 325 sp@ 1ml/litre of water. Spraying should be done after 3 PM so that disease can be effectively controlled. The spray should be repeated after 10-12 days as per intensity of the disease.
- As there is no possibility of getting rainfall in the coming 5 days during dough to milky stage, there is chance of incidences of Gandhi bug & BPH. For BPH Spray Isoprocarb @ 2.5g per litre water or Imidachloprid @ 2.5g per litre water. For Gandhi bug Spray Malathion @ 2ml. per litre water or Chlorpyrifos @ 2ml. per litre water. Holding fires around the field in the night hours also reduce Gundhi bug population.
- All the plant protection measure should be taken up after draining out excess water from the field.

Vegetables

- Drain out excess water from the crop field.
- Prevailing weather condition, there is a chance of attack of black-rot of crucifers in the cabbage
 and cauliflower, this causes rotting of leaves and blackening of head. Apply 1 gm Streptocycline in
 10 It of water and spray thoroughly and also apply top-dressing to cauliflower field
- Use Pheromone Traps @ 20 Nos/ha. to control attack of fruit borer in brinjal, tomato and bhindi crops
- Chilli, tomato, brinjal Vegetative to flowering --Use staking for seedlings --Apply mustard cake with mixed up soil and stirring at the base of plants

 All the plant protection measure should be taken up after draining out excess water from the field.

Boro Paddy:

- Take appropriate action for preparation of seedbed for boro paddy especially as this season is
 cyclone prone, it is advised to prepare the seedbed in high land and also make arrangement for
 draining out of water and also advised for community-based seedbed preparation.
- Construct drain in between two seedbeds. This will be used for draining out extra water due to heavy rainfall and irrigation as well.
- If the seedbed becomes yellow, apply apply urea at the rate of 283 gm urea per decimal.

Mustard:

The present weather condition is ideal for land preparation and sowing of mustard. Continue sowing of mustard and Undertake sowing of Mustard upto 1st fortnight of November preferably in sandy loam or loam soil.

Before sowing of seed, apply per hectare 125-150 kg Urea, 170-180 TSP and 85-100 kg MOP & 8-10 kg Gobar. Required soil moisture is required for application of these fertilisers after draining out excess water.

Maize:

- Start land preparation and sowing of boro maize. Make arrangement for draining out of water from the crop field.
- During last stage of land preparation, for hybrid maize, apply per hectare 166.6-183.3- kg Urea, 240-260 kg TSP,180-200 kg MOP, 4-ton Gobar after draining out excess water.

Lentil

Before sowing, seeds should be treated with Provex-200 (Carbozin+ Thiram) at the rate 2.5 gram per kg of seeds. This will reduce the incidence of Seed and seedling rot disease.

During last stage of land preparation, for hybrid maize apply per hectare 40-45- kg Urea, 80-90 kg TSP,30-40 kg MOP after draining out excess water.

Potato

- This present weather condition is ideal for land preparation & plantation of potato. Collect seeds of recommended varieties of potato from reliable sources and start planting in the field
- To avoid the attack of red ant, cut worm etc. application of Thimet 10G or Malathion 5% dust @ 2 kg/bigha of land is advocated.
- Apply 10 kg Gobar and 8-10 kg zinc sulphate per hectare during the last stage of land preparation. And after planting of seedlings, apply 162.5-175.0 kg Urea, 200-220 kg TSP and 220-250 MOP,100-120 kg Gypsum per hectare and well mixed with soil by the two sides of row after draining out excess water.

Horticultural crops

Present weather conditions are favorable for the planting of horticultural crops viz, papaya, mango, Banana, guava etc, farmers are advised for the planting the same at the earliest.

Livestock

- Night temperature has started falling/ will fall in the district; farmers should make proper arrangements to protect their milch animals and their young ones from morning/evening cold by covering them with gunny bags during night and ample exposure to sunlight during day time to avoid pneumonia.
- Suggested to go for routine vaccination for livestock against the dreaded virus like tarka, khura and PPR.
- The floor and dairy shed should be cleaned with suitable antiseptic solution and maintain a proper sanitation.
- Keep animal shed clean and de-worm domestic animals. For Foot and Mouth disease, wash the wound with potassium permanganate solution.

Poultry

- Suggested to go for routine vaccination for poultry against the dreaded diseases /virus Vaccination (RDF1) of the one week old chicks against Raniket disease, darkplaigue and against Gamboro disease in two weeks old chicks may be carried out after consultation with local veterinarian.
- Clean poultry shed twice in a week.
- Prevent the chicks from chilled wind directly by use of gunny bag or plastic curtains hanging in the side walls
- Arrange light from Bulb 1-2 hours after evening and not to cover the cage by polythene. It favours more production of eggs and reduce the chance of incidences of diseases.

Fishery

- Growing carp is floating upward due to oxygen deficiency. Follow the following.
- Apply lime in pond water. Apply lime according to pH.
- Remove all aquatic weeds from bottom of pond
- Cut the bushes beside the surrounding for getting better sunlight.
- Agitate water for better growth of fish.
- Administer feeding on sunny days. Provide false netting for better growth of fish.

Agromet Advisories for Flood Affected Areas

- 1. Drain out excess water from the crop fields.
- 2. After receding of flood water, start again preparation of seedbed for boro paddy and also sowing/planting of mustard, maize, pulses, potato etc.
- 3. Matured and lodged aman paddy should be harvested immediately and keep it in dry and safe place.
- 4. Tie together 5- 6 aman paddy plants which are still not in harvesting stage.

- 5. Apply potash fertilizer in aman paddy fields affected by flood and high wind.
- 6. After receding of flood water, start again sowing of seeds of vegetables.
- 7. Livestock & poultry birds should be kept in dry and safe place.
- 8. Stir the pond water with bamboo as there may be deficiency of oxygen in pond water already mixed with mud.

Detail District-wise Agromet Advisories are available in BAMIS Portal (www. https://www.bamis.gov.bd/

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 13 November'19) and maximum temperature on 12 November, minimum temperature on 13 November'19 is given below:

| Name of Divisions | Name of Stations | Rain fall (mm) | Max. Temp (°C) | Min. Temp (°C) | Name of Divisions | Name of Stations | Rain fall (mm) | Max. Temp (°C) | Min. Temp (°C) |
|----------------------|---------------------|----------------------|---|----------------------|---|---|----------------------|----------------------|----------------------|
| Dhaka | Dhaka | 00 | 30.5 | 21.6 | Rajshahi | Rajshahi | 00 | 32.0 | 17.4 |
| | Tangail | 00 | 30.2 | 20.0 | | Ishurdi | 00 | 30.5 | 18.4 |
| | Faridpur | 00 | 31.4 | 20.3 | | Bogura | 00 | 30.7 | 20.0 |
| | Madaripur | 00 | 30.9 | 20.3 | | Badalgachhi | 00 | 29.8 | 17.3 |
| | Gopalgonj | 00 | 29.9 | 18.5 | | Tarash | 00 | 29.3 | 19.8 |
| | Nikli | 00 | 30.0 | 21.0 | | 05-50-05-0608 54- | 1000 | 1000000 | N0000000 |
| | | 2000 | 100000000000000000000000000000000000000 | 2000000 | Rangpur | Rangpur | 00 | 30.7 | 19.5 |
| Mymensingh | Mymensingh | 00 | 30.4 | 19.5 | 5-5-22- 7-1 | Dinajpur | 00 | 30.3 | 17.6 |
| | Netrokona | 00 | 30.0 | 19.5 | | Sayedpur | 00 | 31.0 | 18.5 |
| | | | | | | Tetulia | 00 | 29.5 | 16.3 |
| Chattogram | Chattogram | 00 | 30.5 | 22.3 | | Dimla | 00 | 30.0 | 19.0 |
| | Sandwip | 00 | 30.6 | 21.9 | | Rajarhat | 00 | 29.8 | 18.3 |
| | Sitakunda | 00 | 31.5 | 21.0 | | | | | |
| | Rangamati | 00 | 31.0 | 22.0 | Khulna | Khulna | 00 | 30.6 | 19.5 |
| | Cumilla | 00 | 29.8 | 19.7 | 100000000000000000000000000000000000000 | Mongla | 00 | 30.6 | 20.0 |
| | Chandpur | 00 | 31.2 | 22.1 | | Satkhira | 00 | 30.4 | 19.4 |
| | M.Court | 00 | 29.6 | 21.0 | | Jashore | 00 | 31.8 | 18.8 |
| | Feni | 00 | 31.0 | 20.3 | | Chuadanga | 00 | 31.0 | 17.0 |
| | Hatiya | 00 | 29.5 | 21.0 | | Kumarkhali | 00 | 30.3 | 20.2 |
| | Cox's Bazar | 00 | 30.6 | 23.7 | | 100000000000000000000000000000000000000 | 8890 | 55555 | 12000000 |
| | Kutubdia | 00 | 30.7 | 22.4 | Barishal | Barishal | 00 | 30.8 | 21.0 |
| | Teknaf | 00 | 31.6 | 22.5 | | Patuakhali | 00 | 30.0 | 21.3 |
| | | | | | | Khepupara | 00 | 30.4 | 20.2 |
| Sylhet | Sylhet | 00 | 31.1 | 20.5 | | Bhola | 00 | 31.2 | 20.5 |
| | Srimanga1 | 00 | 30.4 | 18.4 | | | | | |

Highlights:

- Country average bright sunshine hour was 7.54 hours per day during last week.
- Country average free water loss during the previous week was 2.84 mm per day.

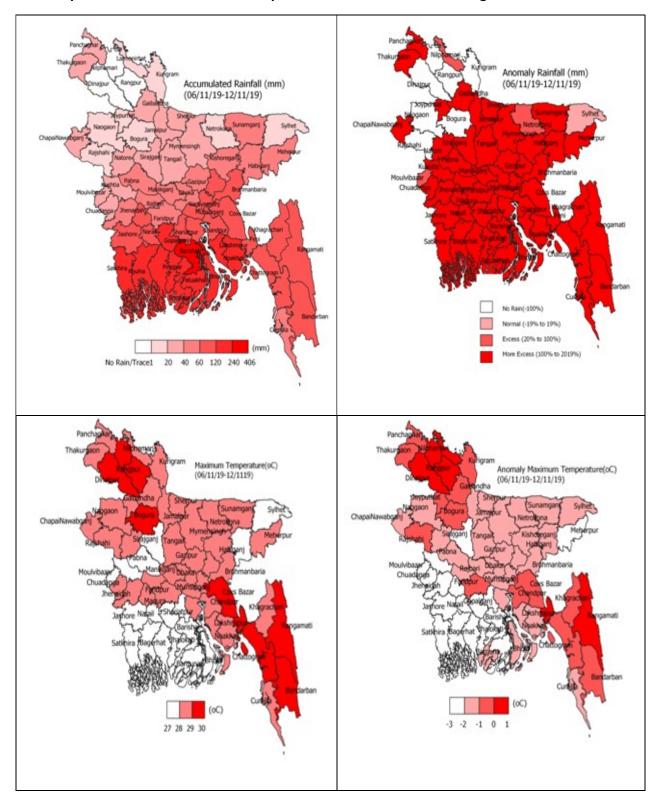
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

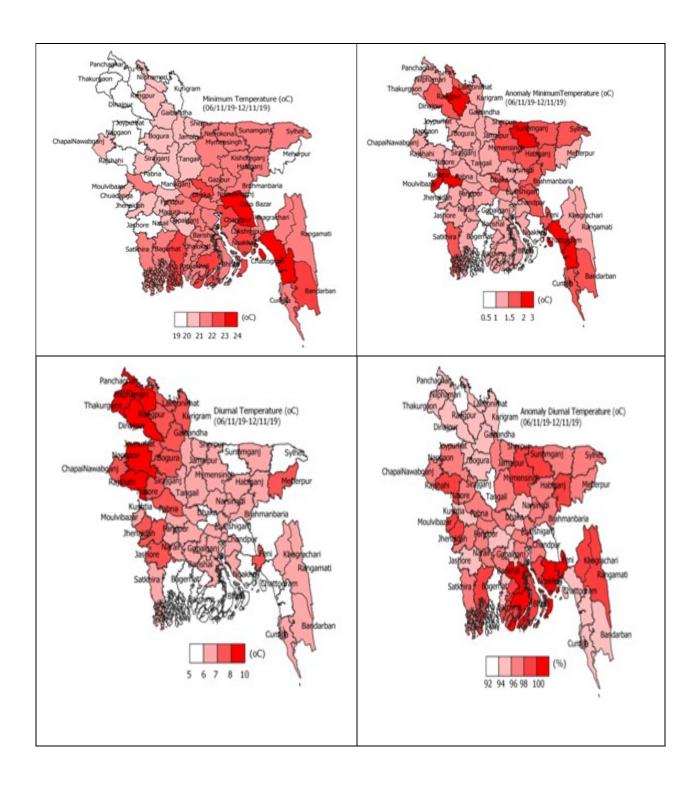
Forecast: Weather may remain dry with temporary partly cloudy sky over the country.

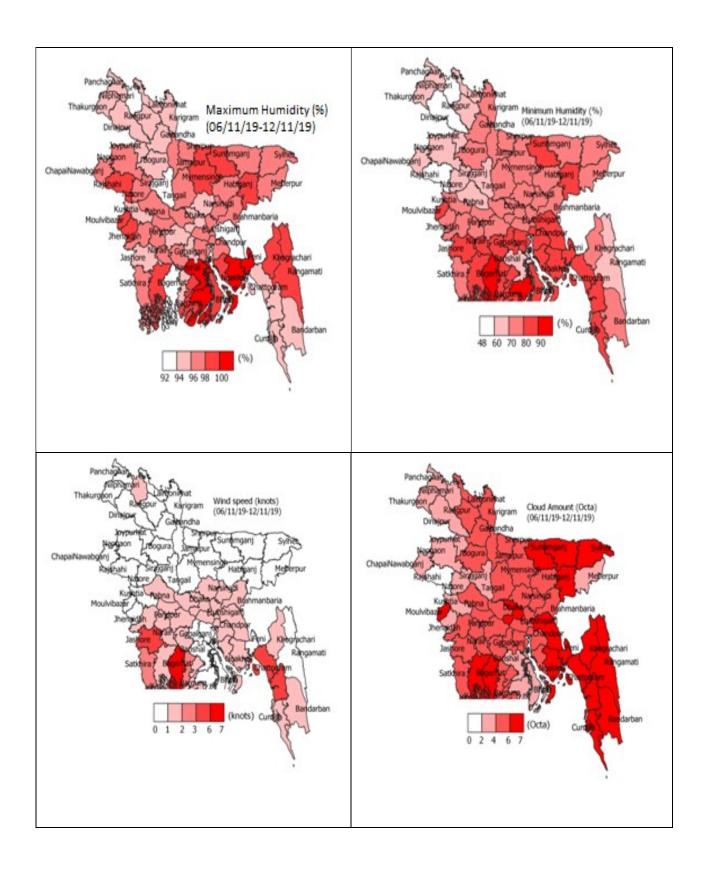
Fog: Light fog is likely to occur at places over the country during early morning.

Temperature: Nigh temperature may fall slightly and day temperature may remain nearly unchanged over the country.

Spatial Distribution of weather parameters for the Week ending 12 November 2019







Weather Forecast and Advisory for the Period of 11.11.2019 to 16.11.2019

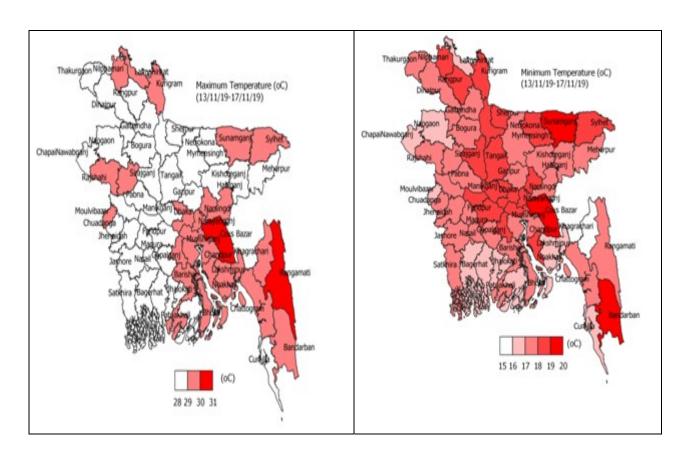
Bright sunshine hour is likely to be from 6.50 to 7.50 hours per day during this week. Average free water loss during the next week is likely to be from 2.50 to 3.50 mm per day.

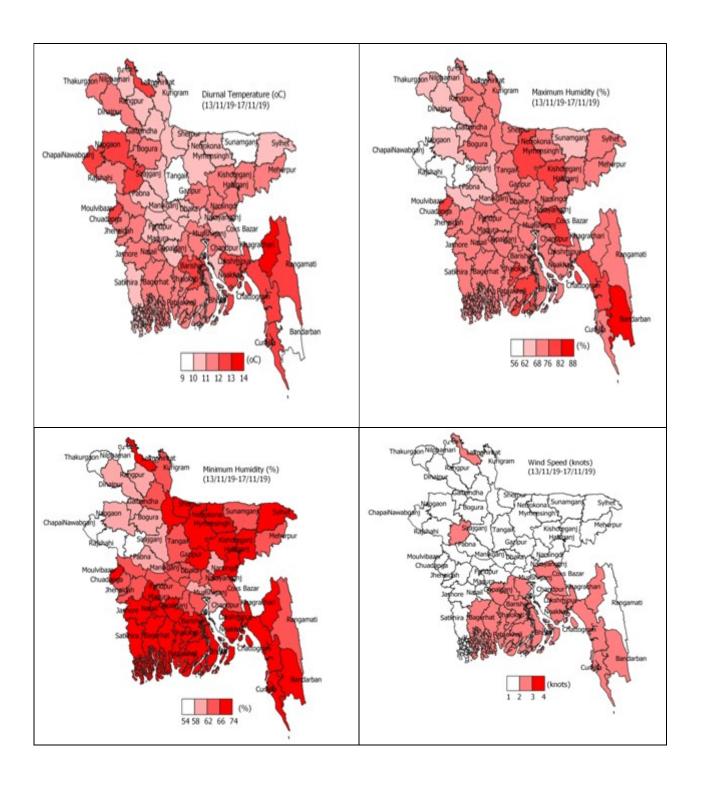
Weather may remain mainly dry with temporary partly cloudy sky over the country, with chances of light(04-10 mm/day) rain at isolated places over Sylhet and Chattogram Divisions during this period.

Light fog may occur at isolated places over the northern part of the country during early morning.

Day and night temperature may rise slightly over the country during this period.

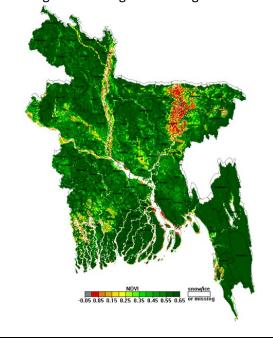
District Wise Quantitative Weather Forecast for next Five days from 13 Nov. -17 November'19



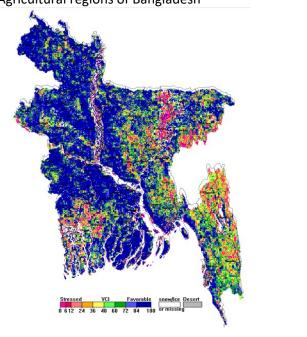


Different Satellite Products over Bangladesh

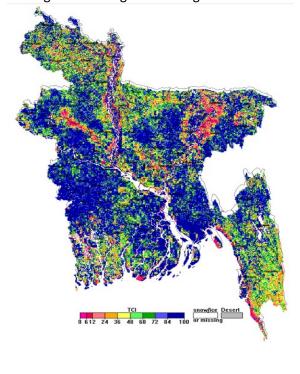
NOAA/VIIRS BLENDED NDVI composite for the week number No. 44 (29 October-04 November) over Agricultural regions of Bangladesh



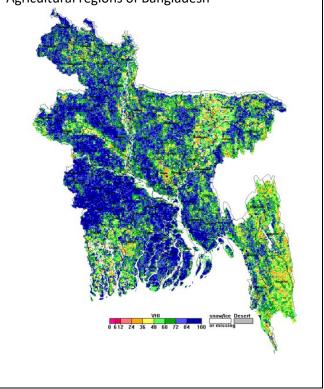
NOAA/ AVHRR BLENDED VCI composite for the week number No. 44 (29 October-04 November) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week number No. 44 (29 October-04 November) over Agricultural regions of Bangladesh

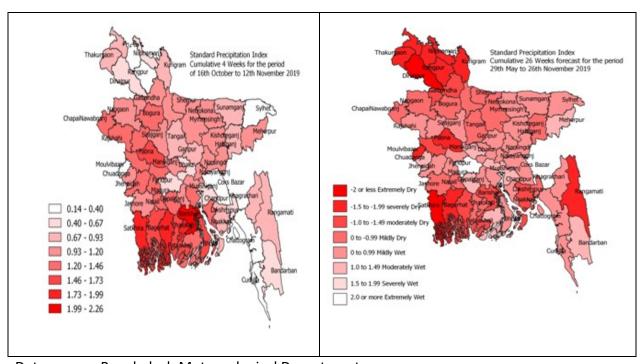


NOAA/ AVHRR BLENDED VHI composite for the week number No. 44 (29 October-04 November) over Agricultural regions of Bangladesh



Monitoring Meteorological Drought in Bangladesh using Standardized Precipitation Index (SPI)

It has been observed that during last four weeks as well as in November extremely wet conditions prevails in districts located in southwest and mild to moderately wet condition prevails in southeast and northwest, northeast as well as other parts of Bangladesh.



Data source: Bangladesh Meteorological Department