



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

**11 January 2023 (WEDNESDAY)
[FOR THE PERIOD 11.01.2023 – 15.01.2023]**



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.

ISSUED BY

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

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 11 January 2023) and maximum temperature on 10 January and minimum temperature on 11 January 2023 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	28.2	13.9	Chattogram	Chattogram	00	29.0	15.6
	Tangail	00	26.8	10.5		Sandwip	00	29.6	16.0
	Faridpur	00	27.2	10.6		Sitakunda	00	30.0	13.7
	Madaripur	00	26.5	11.0		Rangamati	00	29.0	13.7
	Gopalganj	00	26.9	12.7		Cumilla	00	29.5	13.4
	Nikli	00	27.5	11.6		Chandpur	00	28.6	14.4
Rajshahi	Rajshahi	00	26.6	<u>07.8</u>		M. Court	00	28.5	16.0
	Ishurdi	00	26.1	<u>07.8</u>		Feni	00	<u>30.3</u>	13.0
	Bogura	00	26.2	09.0		Hatiya	00	29.6	xx
	Badalgachhi	00	25.5	08.0		Cox's Bazar	00	30.2	16.6
	Tarash	00	24.5	08.8		Kutubdia	00	27.6	16.0
Rangpur	Rangpur	00	26.7	08.5	Khulna	Khulna	00	27.0	11.8
	Dinajpur	00	23.7	08.0		Mongla	00	27.2	12.6
	Sayedpur	00	26.3	08.0		Satkhira	00	26.3	11.3
	Tetulia	00	22.2	08.1		Jashore	00	27.4	09.6
	Dimla	00	25.4	09.0		Chuadanga	00	26.0	08.0
	Rajarhat	00	26.5	08.4		Kumarkhali	00	25.6	10.2
Mymensingh	Mymensingh	00	27.5	11.4	Barishal	Barishal	00	28.8	10.5
	Netrokona	00	28.2	12.4		Patuakhali	00	29.0	13.0
Sylhet	Sylhet	00	29.7	14.9		Khepupara	00	29.5	12.2
	Srimangal	00	30.2	10.9		Bhola	00	29.2	10.8

Highlights:

- Country average bright sunshine hour was 2.00 hours per day during last week.
- Country average free water loss during the previous week was 1.50 mm per day.

Weather Forecast Valid for 24 Hours commencing 06 PM Today:

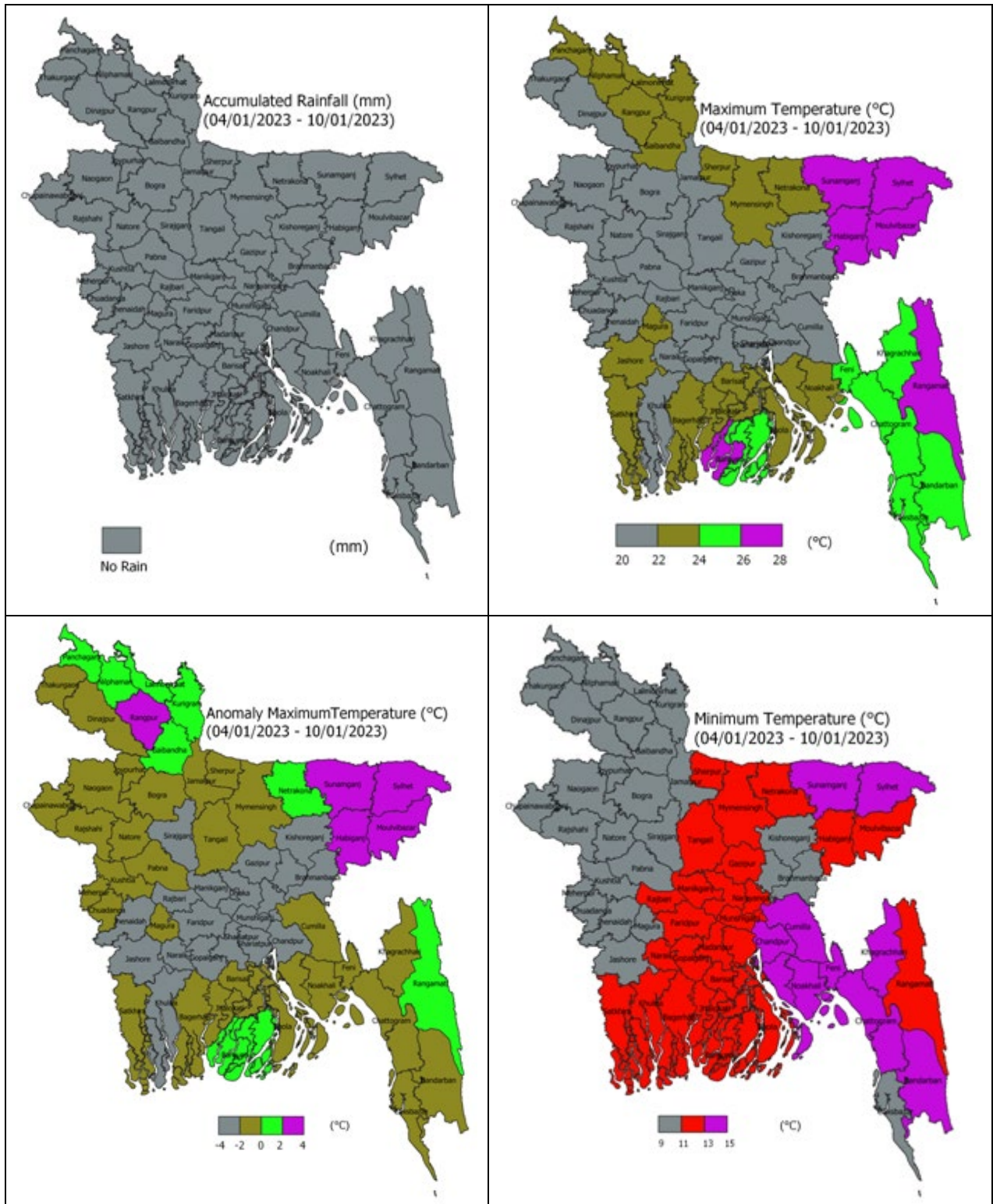
Forecast: Weather may remain dry with temporary partly cloudy sky over the country.

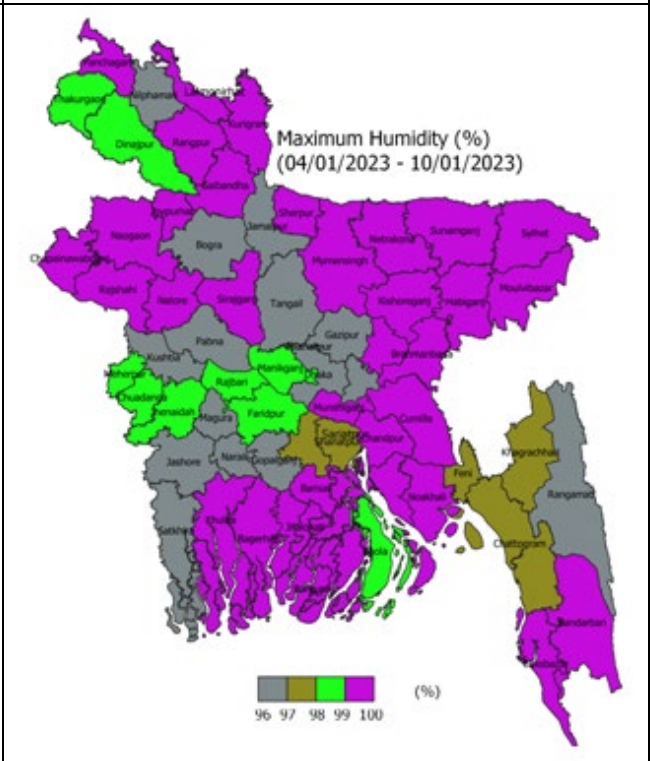
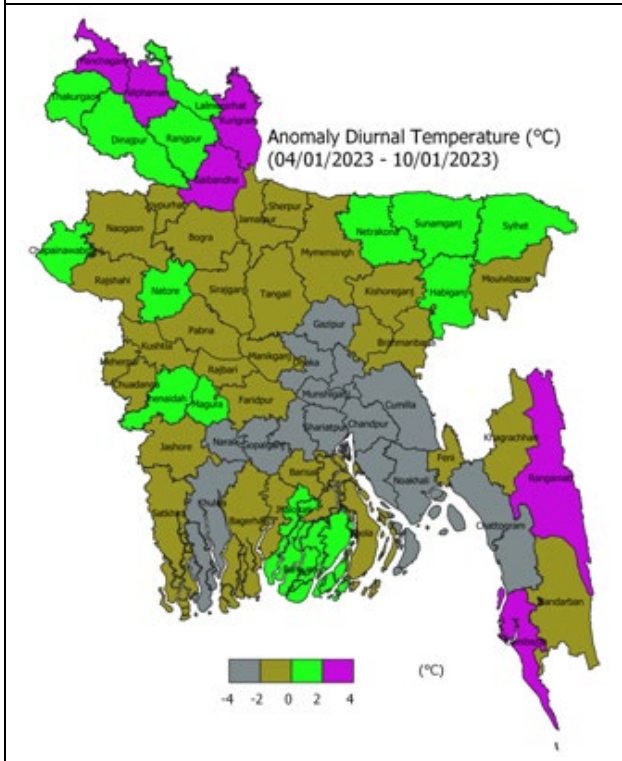
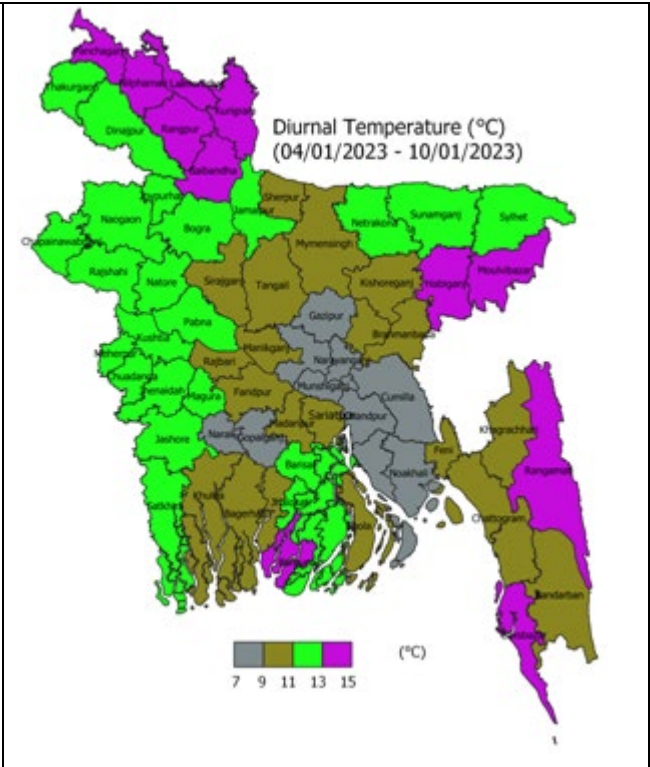
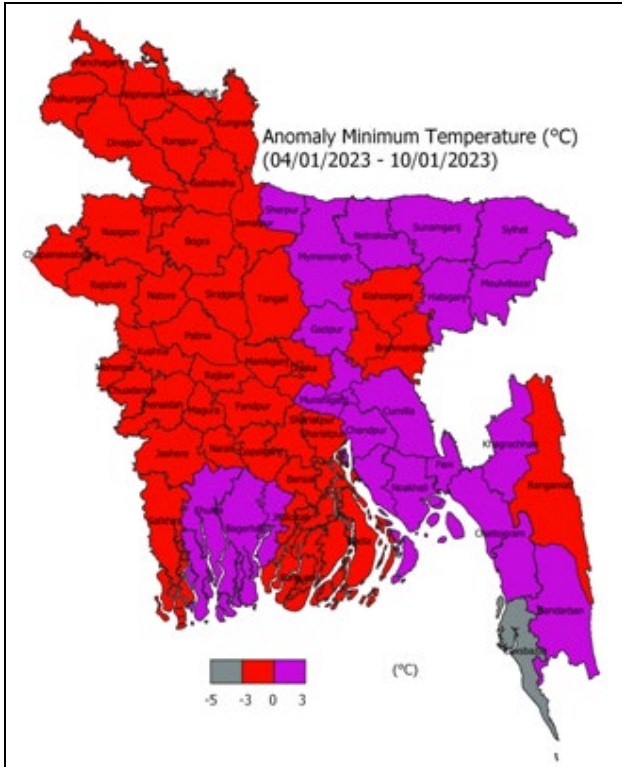
Fog: Moderate to thick fog may occur over the river basins and light to moderate fog may occur elsewhere over the country during midnight to morning.

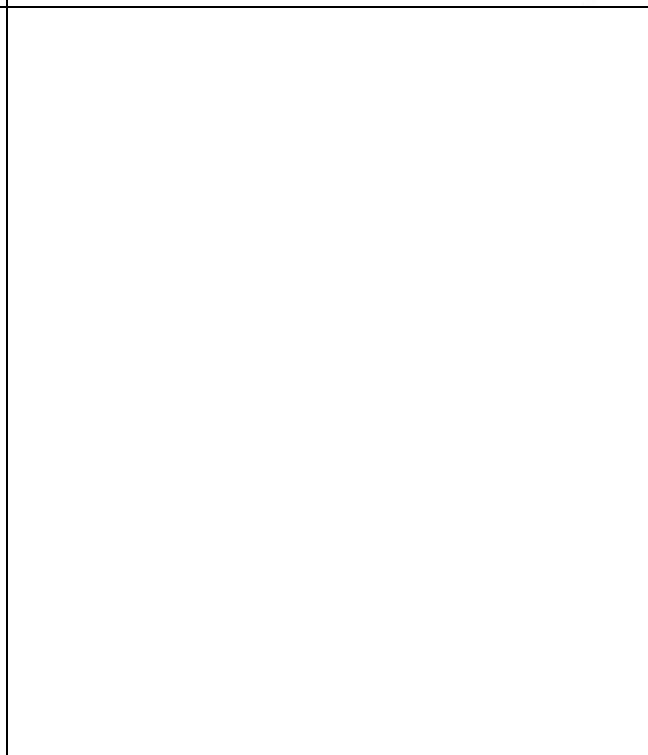
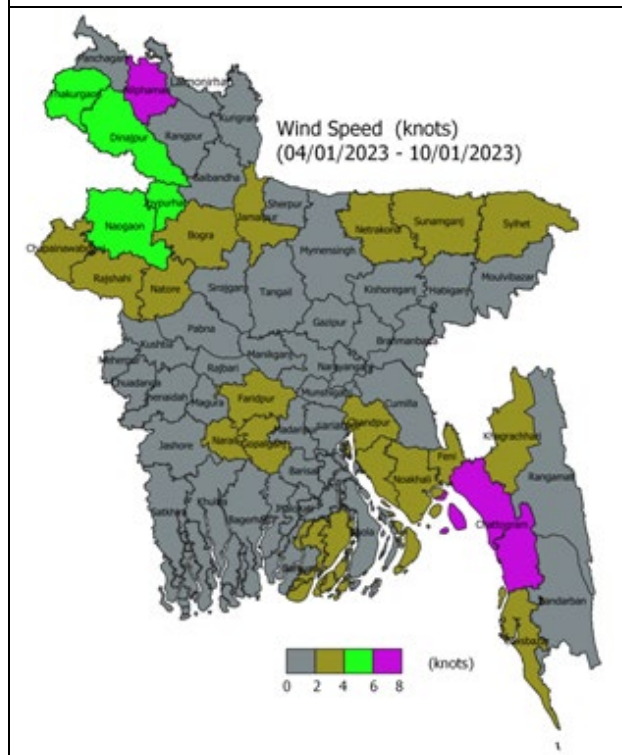
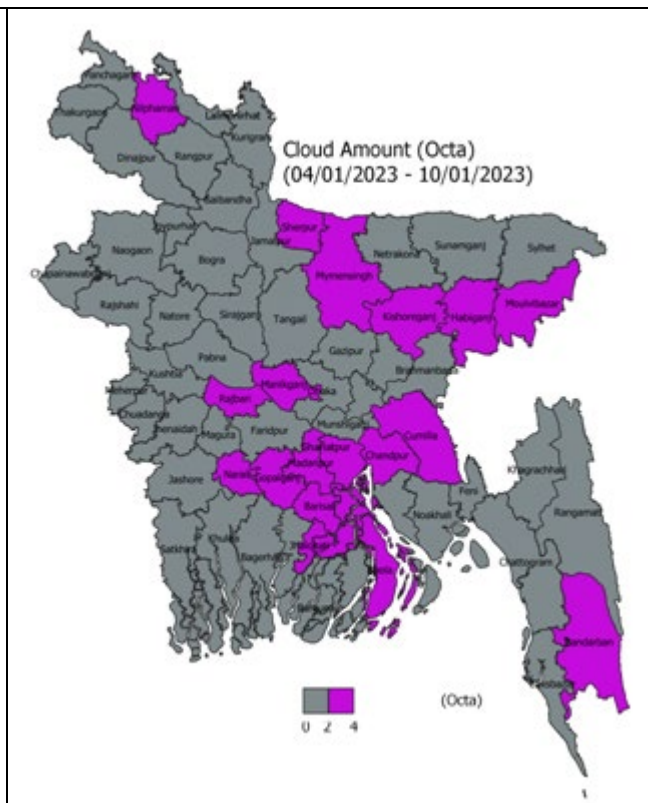
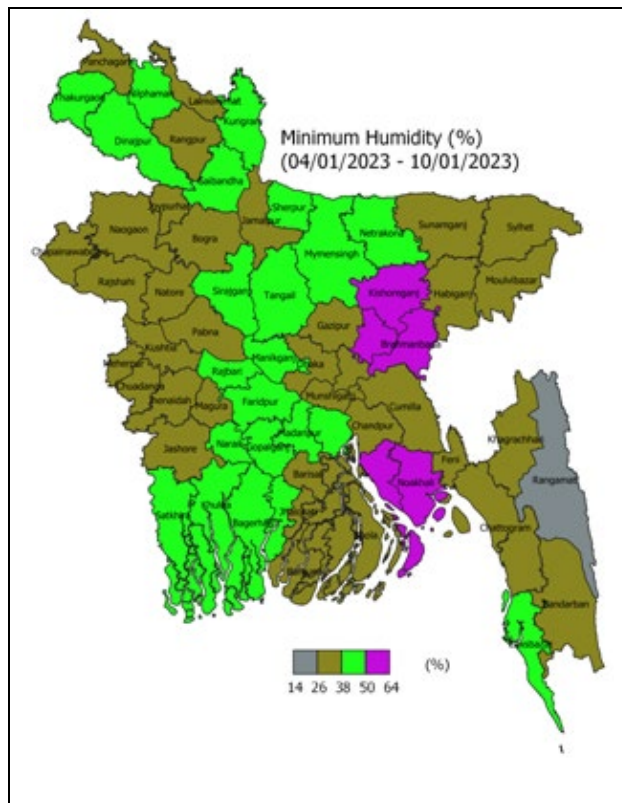
Cold wave: Mild to moderate cold wave is sweeping over Rajshahi & Rangpur divisions and the districts of Jashore & Chuadanga and it may continue.

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

Spatial Distribution of weather parameters for the Week ending on 10 January 2023





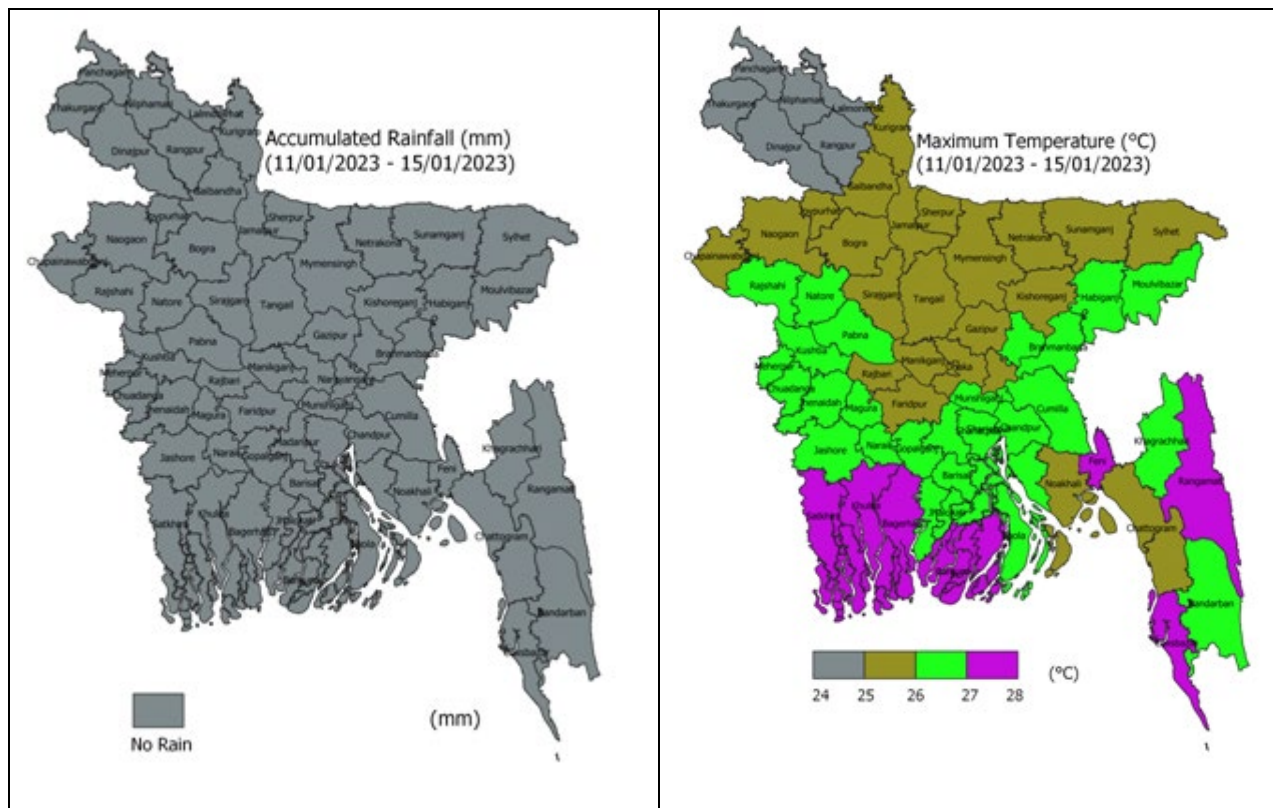


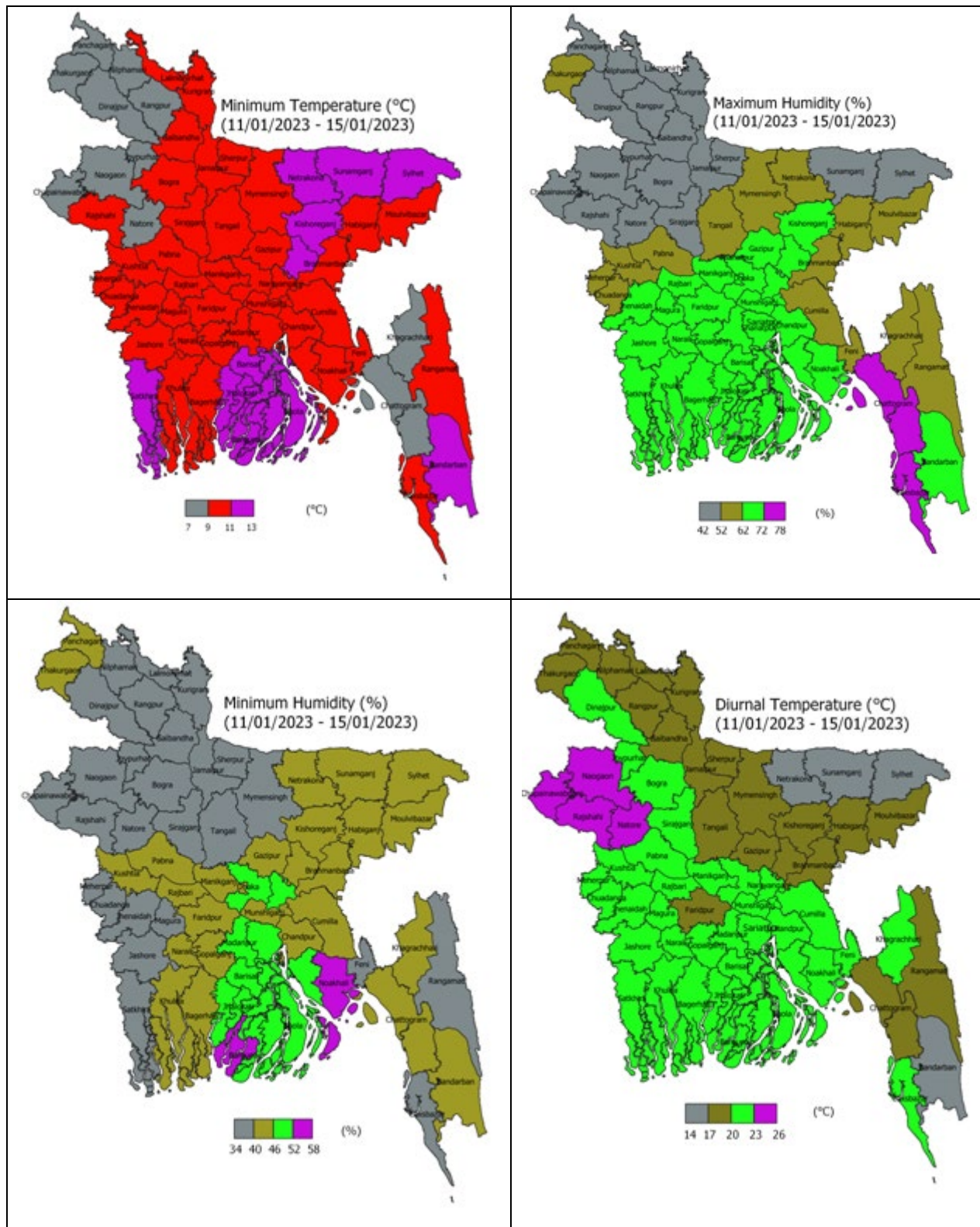
Weather Forecast and Advisory for the Period of 08.01.2023 to 14.01.2023

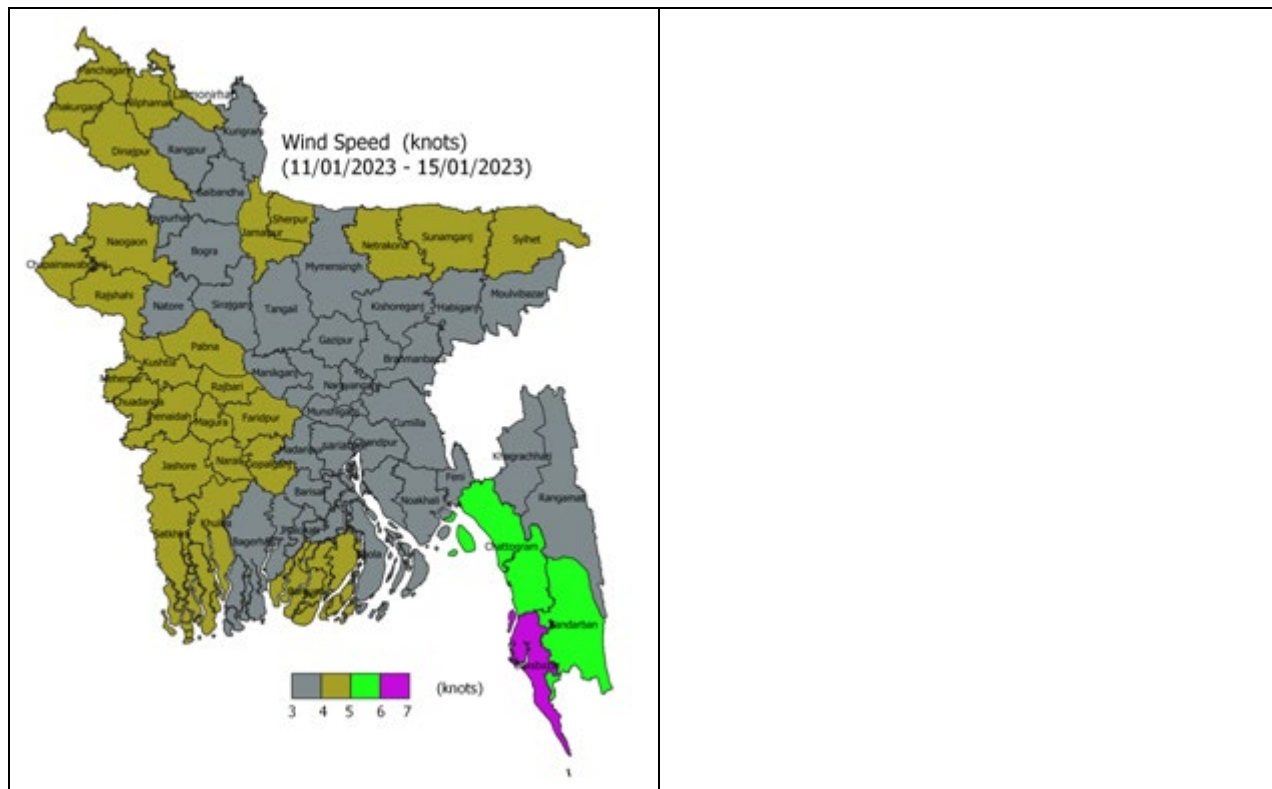
Bright sunshine hour is likely to be from 3.50 to 5.50 hours per day during this week. Average free water loss is likely to be from 1.50 to 3.00 mm per day during this week.

- Weather may remain mainly dry with temporary partly cloudy sky over the country during this period having chances of light rain /drizzle at one or two places over northern part during the end of the period.
- Moderate to Thick fog may occur over the country during midnight till morning/noon of this period.
- Mild to moderate cold wave may sweep at places over the country during the period.
- Night temperature may remain nearly unchanged during 1st half and may fall slightly during the 2nd half of this period & day temperature may rise slightly over the country during the period

District Wise Quantitative Weather Forecast for next Five days from 11 Jan.- 15 Jan. 2023







Different Satellite Products over Bangladesh

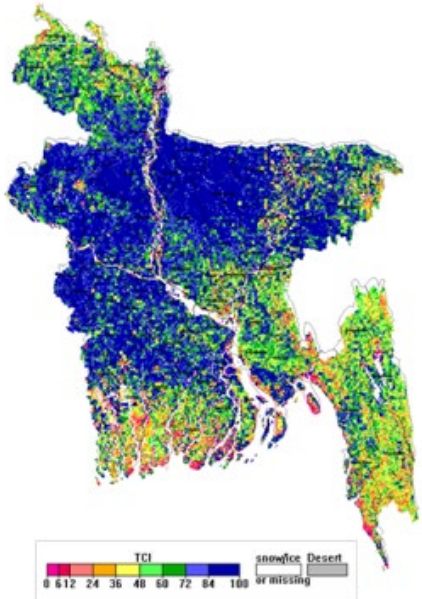
NOAA/VIIRS BLENDED NDVI composite for the week No. 1 (01 January-07 January) over Agricultural regions of Bangladesh



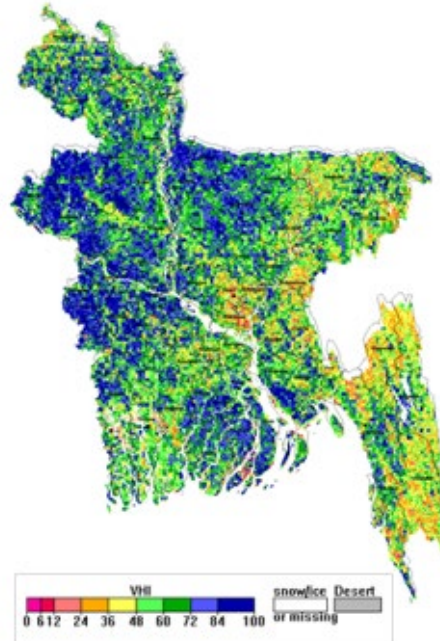
NOAA/ AVHRR BLENDED VCI composite for the week No. 1 (01 January-07 January) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 1 (01 January-07 January) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 1 (01 January-07 January) over Agricultural regions of Bangladesh



Agromet Advisories

According to the medium range forecast, there is no chance of rainfall of the country in the next five days. The following agromet advisories are provided in these circumstances:

Rajshahi Region (Districts: Rajshahi, Chapainawabganj, Naogaon and Natore)

Wheat

- **Stage:** Vegetative Growth
- Farmers are advised to apply 2nd time irrigation at wheat field at 55-60 DAS (panicle initiation stage) for good yield.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast 1.0Kg gypsum/decimal is advised.
- If rats are noticed, arrange net to catch the same or apply 2% Zinc phosphide or Lanirat (3-5g/hole) to control the attack of rats.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Transplanting
- Seedlings of 35 to 45 days old are to be transplanted.
- Place at least one branched bamboo twig at each 2-2.5 decimal land as piercing.
- Dead hills are to be replanted within 7-10 days of transplanting.
- Maintain 1-2 cm land water level.
- Apply irrigation.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.

- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Due to high relative humidity, sooty mould disease may occur in mangoes. Spray Phosphamidon @ 2ml/ liter + 5% maida.
- Apply Irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Give anthelmintic drugs.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.
- Night temperature is decreasing. So keep the cattle under the shed.

Poultry

- Keep the poultry shed clean and dry.
- Protect the chicken from the cold air with plastic screens or plastic bags on all sides.
- High power bulbs (100 watts or more) in the poultry shed for 1-2 hours after dusk will increase egg production and diseases will reduce.
- Take necessary measures to protect against fungal diseases.
- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Rangpur Region (Districts: Rangpur, Kurigram, Gaibandha, Nilphamari, Lalmonirhat)

Wheat

- **Stage:** Grain Formation

- Special monitoring of blast disease is required as there is chance of the disease due to likely incidence of fog during late night till morning. If noticed, apply Nativo 75 WG 6 gm/decimal to control the disease.
- During the stage, farmers are advised to 3rd time irrigation at wheat field for good yield.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Tillering
- There is a chance of attack of insect/pests like, Rice stemborer, Rice hispa, etc. Constant monitoring is required for its level of incidences.
- If noticed, collect the adults using hand net & destroy them by burying under soil or by burning.
- To captivate & control the butterflies, place 2 Pheromone Traps/bigha. Also apply Carbofuran 5g @10kg / ha. or Diazinon 10g @17kg/ha. for its control.
- There is chance of Blast and brown spot attack due to light fog and raised temperature. Apply Trooper 6.0g or Nativo 6.0g/litre water twice in 10-15 days.
- Maintain 5-7 cm land water level.
- Apply irrigation.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Due to high relative humidity, sooty mould disease may occur in mangoes. Spray Phosphamidon @ 2ml/ liter + 5% maida.
- Apply Irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.
- Night temperature is decreasing. So keep the cattle under the shed.

Poultry

- Keep the poultry shed clean and dry.
- Protect the chicken from the cold air with plastic screens or plastic bags on all sides.
- High power bulbs (100 watts or more) in the poultry shed for 1-2 hours after dusk will increase egg production and diseases will reduce.
- Take necessary measures to protect against fungal diseases.
- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Dinajpur Region (Districts: Dinajpur, Thakurgaon and Panchagarh)

Wheat

- **Stage:** Vegetative Growth
- Farmers are advised to apply 2nd time irrigation at wheat field at 55-60 DAS (panicle initiation stage) for good yield.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast 1.0Kg gypsum/decimal is advised.
- If rats are noticed, arrange net to catch the same or apply 2% Zinc phosphide or Lanirat (3-5g/hole) to control the attack of rats.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Tillering
- There is a chance of attack of insect/pests like, Rice stemborer, Rice hispa, etc. Constant monitoring is required for its level of incidences.
- If noticed, collect the adults using hand net & destroy them by burying under soil or by burning.
- To captivate & control the butterflies, place 2 Pheromone Traps/bigha. Also apply Carbofuran 5g @10kg / ha. or Diazinon 10g @17kg/ha. for its control.
- There is chance of Blast and brown spot attack due to light fog and raised temperature. Apply Trooper 6.0g or Nativo 6.0g/litre water twice in 10-15 days.
- Maintain 5-7 cm land water level.
- Apply irrigation.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Due to high relative humidity, sooty mould disease may occur in mangoes. Spray Phosphamidon @ 2ml/ liter + 5% maida.
- Apply Irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.
- Night temperature is decreasing. So keep the cattle under the shed.

Poultry

- Keep the poultry shed clean and dry.
- Protect the chicken from the cold air with plastic screens or plastic bags on all sides.
- High power bulbs (100 watts or more) in the poultry shed for 1-2 hours after dusk will increase egg production and diseases will reduce.
- Take necessary measures to protect against fungal diseases.
- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Bogura Region (Districts: Bogura, Joypurhat, Pabna, Sirajganj)

Wheat

- **Stage:** Vegetative Growth
- Farmers are advised to apply 2nd time irrigation at wheat field at 55-60 DAS (panicle initiation stage) for good yield.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast 1.0Kg gypsum/decimal is advised.
- If rats are noticed, arrange net to catch the same or apply 2% Zinc phosphide or Lanirat (3-5g/hole) to control the attack of rats.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Seedbed
- Take appropriate action for preparation of seedbed for boro paddy. Prepare the seedbed in high land and also make arrangements for draining out of water and also advised for community based seedbed preparation.
- Construct 40-50 cm. drain in between two seedbeds. This will be used for draining out extra water, irrigation also apply fertilizer/insecticide as and when necessary.
- Advise to use recommended varieties of seed.
- If required, provide proper treatment of seeds so that there will be less chance of diseases.

- Close monitoring is required so that birds should not take away the seed from the seed bed.
- After 4-5 days of seed germination, it is better to maintain water level 2-3 cm in seed bed so that it can control the weeds and seed damages due to birds.
- If the seedbed becomes yellow, apply urea at the rate of 283 gm per decimal. Apply 400 gm gypsum per decimal if the seedlings are still not recovered after application of urea.
- Cover the entire nursery bed in the night time with polythene sheets and remove in the morning to avoid the effect of cool temperatures on germination and growth of nursery. Irrigate the nursery with water in night time and remove water in early morning to speed up nursery growth in cold weather conditions.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Due to high relative humidity, sooty mould disease may occur in mangoes. Spray Phosphamidon @ 2ml/ liter + 5% maida.
- Apply Irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.
- Night temperature is decreasing. So keep the cattle under the shed.

Poultry

- Keep the poultry shed clean and dry.
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- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Sylhet Region (Districts: Sylhet, Moulvibazar, Sunamganj, Habiganj)

Wheat

- **Stage:** Vegetative Growth
- Farmers are advised to apply 2nd time irrigation at wheat field at 55-60 DAS (panicle initiation stage) for good yield.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast 1.0Kg gypsum/decimal is advised.
- If rats are noticed, arrange net to catch the same or apply 2% Zinc phosphide or Lanirat (3-5g/hole) to control the attack of rats.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Tillering
- There is a chance of attack of insect/pests like, Rice stemborer, Rice hispa, etc. Constant monitoring is required for its level of incidences.
- If noticed, collect the adults using hand net & destroy them by burying under soil or by burning.
- To captivate & control the butterflies, place 2 Pheromone Traps/bigha. Also apply Carbofuran 5g @10kg / ha. or Diazinon 10g @17kg/ha. for its control.
- There is chance of Blast and brown spot attack due to light fog and raised temperature. Apply Trooper 6.0g or Nativo 6.0g/litre water twice in 10-15 days.
- Maintain 5-7 cm land water level.

- Apply irrigation.

Vegetable

- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under the prevailing weather condition, monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.
- Present weather is congenial for sucking pests in vegetables; spray recommended pesticides.
- Apply Irrigation.

Horticultural

- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Under the present weather conditions, there is a chance of an attack of pseudostem weevil to young banana plants of 3-4 months age. Spray Chlorpyrifos 2 ml/liters of water.
- Weather conditions are congenial for bud rot disease in coconut; spray Bordeaux mixture 1% on spindle leaves and crown of disease affected as well as neighbouring palms.
- Apply Irrigation.

Mustard

- **Stage:** Vegetative
- Present weather conditions and at this stage of crop, the incidence of sawfly may be seen in the mustard crops. To control this pest spray Chlorpyrifos 20 EC @ 5 ml/litre of water on fair weather.
- Farmers are advised to do inter-cultural operations after 15-20 days of sowing for conserving the moisture and removing weeds in the mustard crop.
- Apply light irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.

Poultry

- Keep the poultry shed clean and dry.
- Take necessary measures to protect against fungal diseases.

- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Rangamati Region (Districts: Rangamati, Khagrachari and Bandarban)

Rice Boro

- **Stage:** Tillering
- There is a chance of attack of insect/pests like, Rice stemborer, Rice hispa, etc. Constant monitoring is required for its level of incidences.
- If noticed, collect the adults using hand net & destroy them by burying under soil or by burning.
- To captivate & control the butterflies, place 2 Pheromone Traps/bigha. Also apply Carbofuran 5g @10kg / ha. or Diazinon 10g @17kg/ha. for its control.
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- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Under the prevailing weather condition, monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.
- Present weather is congenial for sucking pests in vegetables; spray recommended pesticides.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Under the present weather conditions, there is a chance of an attack of pseudostem weevil to young banana plants of 3-4 months' age. Spray Chlorpyrifos 2 ml/liters of water.
- Weather conditions are congenial for bud rot disease in coconut; spray Bordeaux mixture 1% on spindle leaves and crown of disease affected as well as neighbouring palms.
- Apply Irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Give anthelmintic drugs.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.

Poultry

- Keep the poultry shed clean and dry.
- Protect the chicken from the cold air with plastic screens or plastic bags on all sides.
- High power bulbs (100 watts or more) in the poultry shed for 1-2 hours after dusk will increase egg production and diseases will reduce.
- Take necessary measures to protect against fungal diseases.
- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Barishal Region (Districts: Jhalakati, Patuakhali, Pirujpur, Barguna, Barishal, Bhola)

Wheat

- **Stage:** Vegetative Growth
- Farmers are advised to apply 2nd time irrigation at wheat field at 55-60 DAS (panicle initiation stage) for good yield.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast 1.0Kg gypsum/decimal is advised.
- If rats are noticed, arrange net to catch the same or apply 2% Zinc phosphide or Lanirat (3-5g/hole) to control the attack of rats.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Tillering
- Apply urea 13 kg/bigha as first top dressing after 15-20 days of transplanting (4-5 tillers/hill).
- There is a chance of attack of insect/pests like, Rice stemborer, Rice hispa, etc. Constant monitoring is required for its level of incidences.
- If noticed, collect the adults using hand net & destroy them by burying under soil or by burning.
- To captivate & control the butterflies, place 2 Pheromone Traps/bigha. Also apply Carbofuran 5g @10kg / ha. or Diazinon 10g @17kg/ha. for its control.
- There is chance of Blast and brown spot attack due to light fog and raised temperature. Apply Trooper 6.0g or Nativo 6.0g/litre water twice in 10-15 days.
- Maintain 5-7 cm land water level.
- Apply irrigation.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Under the prevailing weather condition, monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.
- Present weather is congenial for sucking pests in vegetables; spray recommended pesticides.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Under the present weather conditions, there is a chance of an attack of pseudostem weevil to young banana plants of 3-4 months age. Spray Chlorpyrifos 2 ml/liters of water.
- Due to high relative humidity, sooty mould disease may occur in mangoes. Spray Phosphamidon @ 2ml/ liter + 5% maida.
- Apply Irrigation.

Mustard

- **Stage:** Vegetative
- Present weather conditions and at this stage of crop, the incidence of sawfly may be seen in the mustard crops. To control this pest spray Chlorpyrifos 20 EC @ 5 ml/litre of water on fair weather.
- Farmers are advised to do intercultural operations after 15-20 days of sowing for conserving the moisture and removing weeds in the mustard crop.
- Apply light irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.
- Night temperature is decreasing. So keep the cattle under the shed.

Poultry

- Keep the poultry shed clean and dry.
- Protect the chicken from the cold air with plastic screens or plastic bags on all sides.
- High power bulbs (100 watts or more) in the poultry shed for 1-2 hours after dusk will increase egg production and diseases will reduce.
- Take necessary measures to protect against fungal diseases.
- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Jashore Region (Districts: Jashore, Kushtia, Chuadanga, Jhenaidah, Meherpur, Magura)

Wheat

- **Stage:** Vegetative Growth
- Farmers are advised to apply 2nd time irrigation at wheat field at 55-60 DAS (panicle initiation stage) for good yield.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast 1.0Kg gypsum/decimal is advised.
- If rats are noticed, arrange net to catch the same or apply 2% Zinc phosphide or Lanirat (3-5g/hole) to control the attack of rats.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Seedbed
- Take appropriate action for preparation of seedbed for boro paddy. Prepare the seedbed in high land and also make arrangements for draining out of water and also advised for community based seedbed preparation.
- Construct 40-50 cm. drain in between two seedbeds. This will be used for draining out extra water, irrigation also apply fertilizer/insecticide as and when necessary.
- Advise to use recommended varieties of seed.
- If required, provide proper treatment of seeds so that there will be less chance of diseases.
- Close monitoring is required so that birds should not take away the seed from the seed bed.
- After 4-5 days of seed germination, it is better to maintain water level 2-3 cm in seed bed so that it can control the weeds and seed damages due to birds.
- If the seedbed becomes yellow, apply urea at the rate of 283 gm per decimal. Apply 400 gm gypsum per decimal if the seedlings are still not recovered after application of urea.
- Cover the entire nursery bed in the night time with polythene sheets and remove in the morning to avoid the effect of cool temperatures on germination and growth of nursery. Irrigate the nursery with water in night time and remove water in early morning to speed up nursery growth in cold weather conditions.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Under the prevailing weather condition, monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.
- Present weather is congenial for sucking pests in vegetables; spray recommended pesticides.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Under the present weather conditions, there is a chance of an attack of pseudostem weevil to young banana plants of 3-4 months age. Spray Chlorpyrifos 2 ml/liters of water.
- Due to high relative humidity, sooty mould disease may occur in mangoes. Spray Phosphamidon @ 2ml/ liter + 5% maida.
- Apply Irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Give anthelmintic drugs.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.
- Night temperature is decreasing. So keep the cattle under the shed.

Poultry

- Keep the poultry shed clean and dry.
- Protect the chicken from the cold air with plastic screens or plastic bags on all sides.

- High power bulbs (100 watts or more) in the poultry shed for 1-2 hours after dusk will increase egg production and diseases will reduce.
- Take necessary measures to protect against fungal diseases.
- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Faridpur Region (Districts: Faridpur, Rajbari, Madaripur, Shariatpur and Gopalganj)

Wheat

- **Stage:** Vegetative Growth
- Farmers are advised to apply 2nd time irrigation at wheat field at 55-60 DAS (panicle initiation stage) for good yield.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast 1.0Kg gypsum/decimal is advised.
- If rats are noticed, arrange net to catch the same or apply 2% Zinc phosphide or Lanirat (3-5g/hole) to control the attack of rats.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Tillering
- Apply urea 13 kg/bigha as first top dressing after 15-20 days of transplanting (4-5 tillers/hill).
- There is a chance of attack of insect/pests like, Rice stemborer, Rice hispa, etc. Constant monitoring is required for its level of incidences.
- If noticed, collect the adults using hand net & destroy them by burying under soil or by burning.
- To captivate & control the butterflies, place 2 Pheromone Traps/bigha. Also apply Carbofuran 5g @10kg / ha. or Diazinon 10g @17kg/ha. for its control.
- There is chance of Blast and brown spot attack due to light fog and raised temperature. Apply Trooper 6.0g or Nativo 6.0g/litre water twice in 10-15 days.

- Maintain 5-7 cm land water level.
- Apply irrigation.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Under the prevailing weather condition, monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.
- Present weather is congenial for sucking pests in vegetables; spray recommended pesticides.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Under the present weather conditions, there is a chance of an attack of pseudostem weevil to young banana plants of 3-4 months age. Spray Chlorpyrifos 2 ml/liters of water.
- Due to high relative humidity, sooty mould disease may occur in mangoes. Spray Phosphamidon @ 2ml/ liter + 5% maida.
- Apply Irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Give anthelmintic drugs.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.
- Night temperature is decreasing. So keep the cattle under the shed.

Poultry

- Keep the poultry shed clean and dry.
- Protect the chicken from the cold air with plastic screens or plastic bags on all sides.
- High power bulbs (100 watts or more) in the poultry shed for 1-2 hours after dusk will increase egg production and diseases will reduce.
- Take necessary measures to protect against fungal diseases.
- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Dhaka Region (Districts: Dhaka, Tangail, Gazipur, Narsingdi, Narayanganj, Munshiganj, Manikgonj)

Wheat

- **Stage:** Vegetative Growth
- Farmers are advised to apply 2nd time irrigation at wheat field at 55-60 DAS (panicle initiation stage) for good yield.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast 1.0Kg gypsum/decimal is advised.
- If rats are noticed, arrange net to catch the same or apply 2% Zinc phosphide or Lanirat (3-5g/hole) to control the attack of rats.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Tillering
- Apply urea 13 kg/bigha as first top dressing after 15-20 days of transplanting (4-5 tillers/hill).
- There is a chance of attack of insect/pests like, Rice stemborer, Rice hispa, etc. Constant monitoring is required for its level of incidences.
- If noticed, collect the adults using hand net & destroy them by burying under soil or by burning.

- To captivate & control the butterflies, place 2 Pheromone Traps/bigha. Also apply Carbofuran 5g @10kg / ha. or Diazinon 10g @17kg/ha. for its control.
- There is chance of Blast and brown spot attack due to light fog and raised temperature. Apply Trooper 6.0g or Nativo 6.0g/litre water twice in 10-15 days.
- Maintain 5-7 cm land water level.
- Apply irrigation.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Under the prevailing weather condition, monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.
- Present weather is congenial for sucking pests in vegetables; spray recommended pesticides.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Under the present weather conditions, there is a chance of an attack of pseudostem weevil to young banana plants of 3-4 months age. Spray Chlorpyrifos 2 ml/liters of water.
- Due to high relative humidity, sooty mould disease may occur in mangoes. Spray Phosphamidon @ 2ml/ liter + 5% maida.
- Apply Irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Give anthelmintic drugs.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.

Poultry

- Keep the poultry shed clean and dry.
- Protect the chicken from the cold air with plastic screens or plastic bags on all sides.
- High power bulbs (100 watts or more) in the poultry shed for 1-2 hours after dusk will increase egg production and diseases will reduce.
- Take necessary measures to protect against fungal diseases.
- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Chattogram region (Districts: Chattogram, Lakshmipur, Coxsbazar, Noakhali and Feni)

Rice Boro

- **Stage:** Tillering
- Apply urea 13 kg/bigha as first top dressing after 15-20 days of transplanting (4-5 tillers/hill).
- There is a chance of attack of insect/pests like, Rice stemborer, Rice hispa, etc. Constant monitoring is required for its level of incidences.
- If noticed, collect the adults using hand net & destroy them by burying under soil or by burning.
- To captivate & control the butterflies, place 2 Pheromone Traps/bigha. Also apply Carbofuran 5g @10kg / ha. or Diazinon 10g @17kg/ha. for its control.
- There is chance of Blast and brown spot attack due to light fog and raised temperature. Apply Trooper 6.0g or Nativo 6.0g/litre water twice in 10-15 days.
- Maintain 5-7 cm land water level.
- Apply irrigation.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after

every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.

- Under the prevailing weather condition, monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.
- Present weather is congenial for sucking pests in vegetables; spray recommended pesticides.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Under the present weather conditions, there is a chance of an attack of pseudostem weevil to young banana plants of 3-4 months age. Spray Chlorpyrifos 2 ml/liters of water.
- Due to high relative humidity, sooty mould disease may occur in mangoes. Spray Phosphamidon @ 2ml/ liter + 5% maida.
- Apply Irrigation.

Mustard

- **Stage:** Vegetative
- Present weather conditions and at this stage of crop, the incidence of sawfly may be seen in the mustard crops. To control this pest spray Chlorpyrifos 20 EC @ 5 ml/litre of water on fair weather.
- Farmers are advised to do intercultural operations after 15-20 days of sowing for conserving the moisture and removing weeds in the mustard crop.
- Apply light irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Give anthelmintic drugs.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.

Poultry

- Keep the poultry shed clean and dry.

- Protect the chicken from the cold air with plastic screens or plastic bags on all sides.
- High power bulbs (100 watts or more) in the poultry shed for 1-2 hours after dusk will increase egg production and diseases will reduce.
- Take necessary measures to protect against fungal diseases.
- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Cumilla Region (Districts: Cumilla, Chandpur, Bramanbaria)

Wheat

- **Stage:** Vegetative Growth
- Farmers are advised to apply 2nd time irrigation at wheat field at 55-60 DAS (panicle initiation stage) for good yield.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast 1.0Kg gypsum/decimal is advised.
- If rats are noticed, arrange net to catch the same or apply 2% Zinc phosphide or Lanirat (3-5g/hole) to control the attack of rats.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Tillering
- Apply urea 13 kg/bigha as first top dressing after 15-20 days of transplanting (4-5 tillers/hill).
- There is a chance of attack of insect/pests like, Rice stemborer, Rice hispa, etc. Constant monitoring is required for its level of incidences.
- If noticed, collect the adults using hand net & destroy them by burying under soil or by burning.
- To captivate & control the butterflies, place 2 Pheromone Traps/bigha. Also apply Carbofuran 5g @10kg / ha. or Diazinon 10g @17kg/ha. for its control.
- There is chance of Blast and brown spot attack due to light fog and raised temperature. Apply Trooper 6.0g or Nativo 6.0g/litre water twice in 10-15 days.

- Maintain 5-7 cm land water level.
- Apply irrigation.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Under the prevailing weather condition, monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.
- Present weather is congenial for sucking pests in vegetables; spray recommended pesticides.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Under the present weather conditions, there is a chance of an attack of pseudostem weevil to young banana plants of 3-4 months age. Spray Chlorpyrifos 2 ml/liters of water.
- Due to high relative humidity, sooty mould disease may occur in mangoes. Spray Phosphamidon @ 2ml/ liter + 5% maida.
- Apply Irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Give anthelmintic drugs.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.

Poultry

- Keep the poultry shed clean and dry.

- Protect the chicken from the cold air with plastic screens or plastic bags on all sides.
- High power bulbs (100 watts or more) in the poultry shed for 1-2 hours after dusk will increase egg production and diseases will reduce.
- Take necessary measures to protect against fungal diseases.
- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Khulna Region (Districts: Khulna, Satkhira, Bagerhat and Narail)

Wheat

- **Stage:** Vegetative Growth
- Farmers are advised to apply 2nd time irrigation at wheat field at 55-60 DAS (panicle initiation stage) for good yield.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast 1.0Kg gypsum/decimal is advised.
- If rats are noticed, arrange net to catch the same or apply 2% Zinc phosphide or Lanirat (3-5g/hole) to control the attack of rats.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Seedbed
- Take appropriate action for preparation of seedbed for boro paddy. Prepare the seedbed in high land and also make arrangements for draining out of water and also advised for community based seedbed preparation.
- Construct 40-50 cm. drain in between two seedbeds. This will be used for draining out extra water, irrigation also apply fertilizer/insecticide as and when necessary.
- Advise to use recommended varieties of seed.
- If required, provide proper treatment of seeds so that there will be less chance of diseases.

- Close monitoring is required so that birds should not take away the seed from the seed bed.
- After 4-5 days of seed germination, it is better to maintain water level 2-3 cm in seed bed so that it can control the weeds and seed damages due to birds.
- If the seedbed becomes yellow, apply urea at the rate of 283 gm per decimal. Apply 400 gm gypsum per decimal if the seedlings are still not recovered after application of urea.
- Cover the entire nursery bed in the night time with polythene sheets and remove in the morning to avoid the effect of cool temperatures on germination and growth of nursery. Irrigate the nursery with water in night time and remove water in early morning to speed up nursery growth in cold weather conditions.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Under the prevailing weather condition, monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.
- Present weather is congenial for sucking pests in vegetables; spray recommended pesticides.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Under the present weather conditions, there is a chance of an attack of pseudostem weevil to young banana plants of 3-4 months age. Spray Chlorpyrifos 2 ml/liters of water.
- Due to high relative humidity, sooty mould disease may occur in mangoes. Spray Phosphamidon @ 2ml/ liter + 5% maida.
- Apply Irrigation.

Livestock

- Take necessary steps to prevent external parasites.
- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.

- Give anthelmintic drugs.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.

Poultry

- Keep the poultry shed clean and dry.
- Protect the chicken from the cold air with plastic screens or plastic bags on all sides.
- High power bulbs (100 watts or more) in the poultry shed for 1-2 hours after dusk will increase egg production and diseases will reduce.
- Take necessary measures to protect against fungal diseases.
- Vaccinate Spring Disease of Chicken.
- Let the hens out of the coop a little late in the morning and close the coop door in the evening.

Fishery

- Reduce fish density, and transfer to other ponds if necessary.
- Ensure enough water in the pond to avoid the harmful effects of low temperatures.
- Reduce food in winter. Stop feeding if needed.
- Keep clean the pond water.
- Apply lime in the pond to protect fish from various bacterial diseases in winter. (250-500 gm/per decimal)

Mymensingh Region (Districts: Mymensingh, Kishoregonj, Jamalpur, Netrokona, Sherpur)

Wheat

- **Stage:** Vegetative Growth
- Farmers are advised to apply 2nd time irrigation at wheat field at 55-60 DAS (panicle initiation stage) for good yield.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast 1.0Kg gypsum/decimal is advised.
- If rats are noticed, arrange net to catch the same or apply 2% Zinc phosphide or Lanirat (3-5g/hole) to control the attack of rats.
- At this stage of crop and prevailing weather conditions, monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, apply Chlorpyrifos 20EC @ 4.0 ml/litre in the soil at evening hours.
- Apply irrigation.

Rice Boro

- **Stage:** Tillering

- Apply urea 13 kg/bigha as first top dressing after 15-20 days of transplanting (4-5 tillers/hill).
- There is a chance of attack of insect/pests like, Rice stemborer, Rice hispa, etc. Constant monitoring is required for its level of incidences.
- If noticed, collect the adults using hand net & destroy them by burying under soil or by burning.
- To captivate & control the butterflies, place 2 Pheromone Traps/bigha. Also apply Carbofuran 5g @10kg / ha. or Diazinon 10g @17kg/ha. for its control.
- There is chance of Blast and brown spot attack due to light fog and raised temperature. Apply Trooper 6.0g or Nativo 6.0g/litre water twice in 10-15 days.
- Maintain 5-7 cm land water level.
- Apply irrigation.

Vegetable

- Protect young plants of vegetable from low temperature.
- Present weather condition is favourable for the incidence of yellowish-brown spot in tomato, Spray mancozeb 2.5-3g/litres of water.
- Under cold conditions, there may be infestation of yellow vein mosaic in okra. Farmers are advised to remove all infected plants and destroy them. Disinfect gardening tools after every use. Control white fly, the vector, by spraying imidacloprid 17.8 SL @ 0.3ml/ liters of water before populations reach high levels.
- Under the prevailing weather condition, monitoring is advised for infestation of fruit borers in brinjal, tomato, chilli. If infestation occurs, installation of pheromone traps @ 3-4 traps per acre is advised.
- Present weather is congenial for sucking pests in vegetables; spray recommended pesticides.
- Apply Irrigation.

Horticultural

- Protect young plants of horticulture crops from low temperature
- It is advised to cover the small horticulture plants with grass to avoid cold paralysis.
- To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- In fruit crops, apply organic mulches after earthing up and weeding to conserve residual soil moisture as well as to maintain the soil temperature.
- Under the present weather conditions, there is a chance of an attack of pseudostem weevil to young banana plants of 3-4 months age. Spray Chlorpyrifos 2 ml/liters of water.
- Weather conditions are congenial for bud rot disease in coconut; spray Bordeaux mixture 1% on spindle leaves and crown of disease affected as well as neighbouring palms.
- Apply Irrigation.

Livestock

- Take necessary steps to prevent external parasites.

- The temperature can be increased by lighting high-wattage bulbs in cowsheds.
- Feed rich grain.
- Give anthelmintic drugs.
- Vaccinate the cattle to prevent scurvy.
- Give lukewarm water to drink.
- Feed 50-100g mineral mixture daily with feed to maintain cattle health.

Poultry

- Keep the poultry shed clean and dry.
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