



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

**30 November 2022 (WEDNESDAY)
[FOR THE PERIOD 30.11.2022 – 04.12.2022]**



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 30 November 2022) and maximum temperature on 29 November and minimum temperature on 30 November 2022 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	29.8	20.8	Chattogram	Chattogram	00	32.2	23.6	
	Tangail	00	30.4	17.0		Sandwip	00	32.6	22.0	
	Faridpur	00	30.2	20.2		Sitakunda	00	32.8	21.0	
	Madaripur	00	29.0	21.3		Rangamati	04	32.5	22.5	
	Gopalganj	00	29.0	21.6		Cumilla	00	31.2	23.2	
	Nikli	00	30.0	18.5		Chandpur	00	31.5	22.8	
Rajshahi	Rajshahi	00	29.5	15.7		M.Court	00	31.5	24.0	
	Ishurdi	00	29.7	15.3		Feni	00	32.4	22.0	
	Bogura	00	30.0	16.4		Hatiya	00	31.0	21.4	
	Badalgachhi	00	29.0	14.0		Cox's Bazar	00	31.8	24.6	
	Tarash	00	29.4	15.8		Kutubdia	00	31.6	20.5	
						Teknaf	00	29.7	21.5	
Rangpur	Rangpur	00	29.0	17.8		Khulna	Khulna	00	30.0	22.0
	Dinajpur	00	29.4	15.2			Mongla	00	29.0	22.6
	Sayedpur	00	29.4	16.2	Satkhira		00	29.8	22.0	
	Tetulia	00	29.1	12.6	Jashore		00	30.6	16.0	
	Dimla	00	28.3	15.0	Chuadanga		00	28.7	16.2	
	Rajarhat	00	29.5	14.8	Kumarkhali		00	29.8	17.2	
Mymensingh	Mymensingh	00	30.7	17.2	Barishal		Barishal	00	31.0	21.5
	Netrokona	00	30.5	18.5			Patuakhali	00	31.0	22.8
Sylhet	Sylhet	00	32.5	21.5		Khepupara	00	31.4	22.0	
	Srimangal	00	31.0	21.7		Bhola	00	32.0	22.1	

Highlights:

- Country average bright sunshine hour was 8.16 hours per day during last week.
- Country average free water loss during the previous week was 2.63 mm per day.

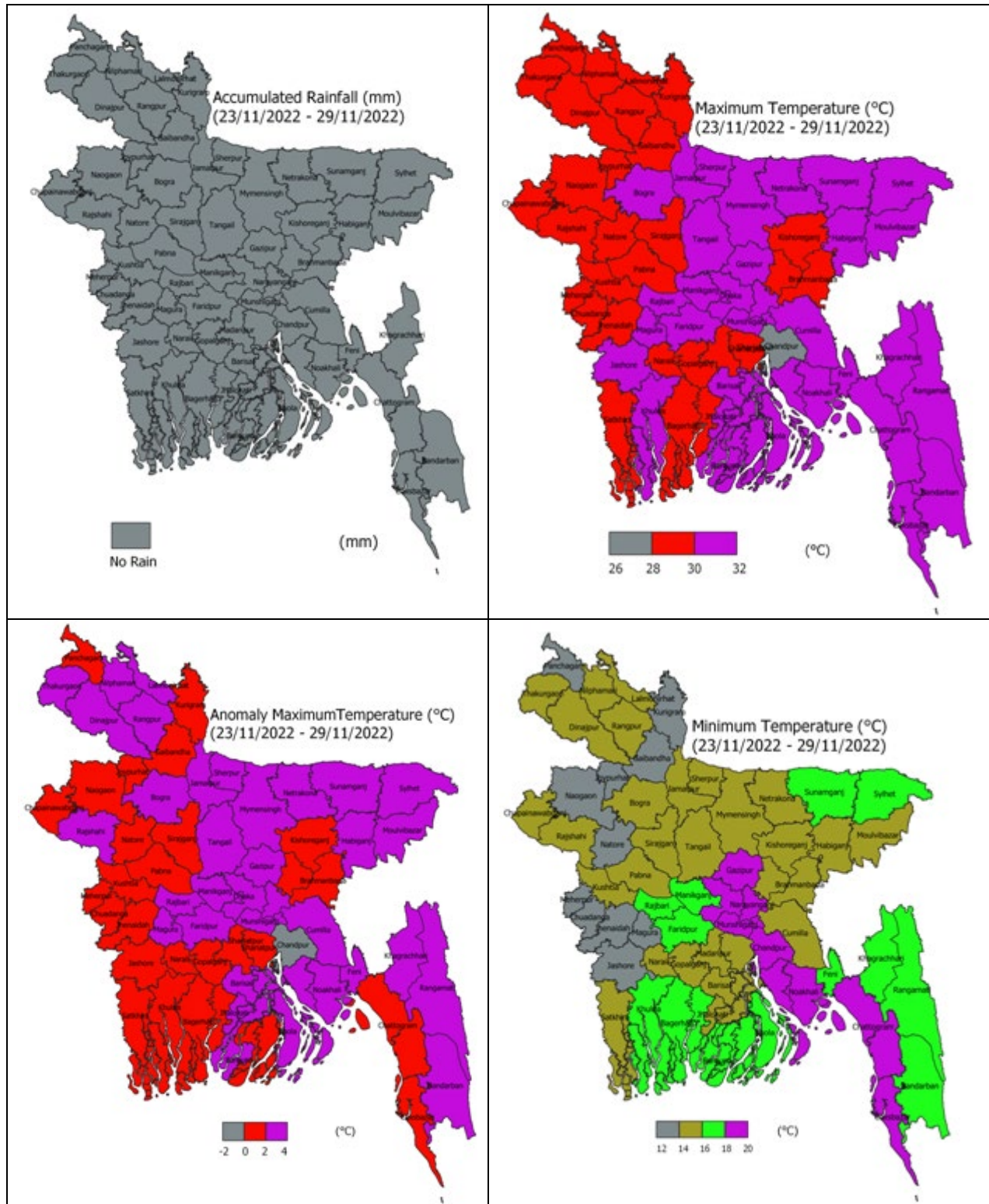
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

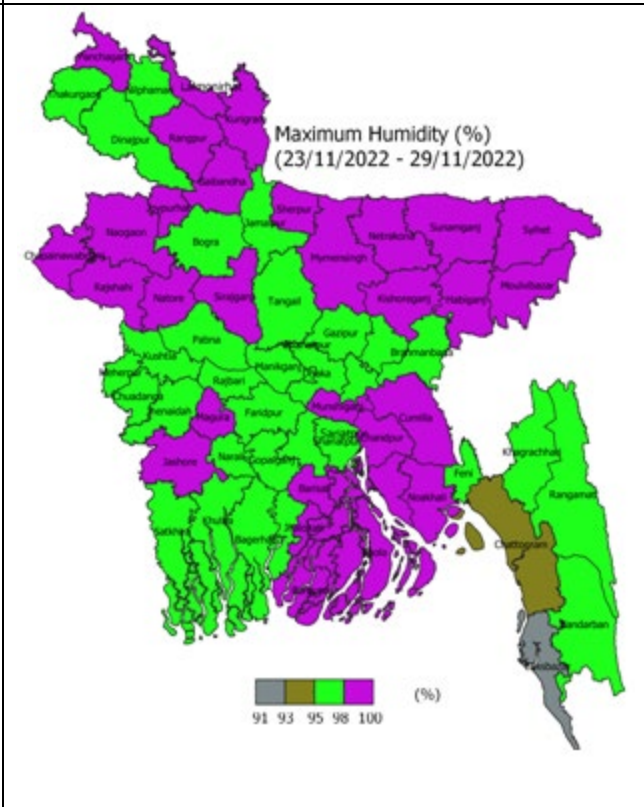
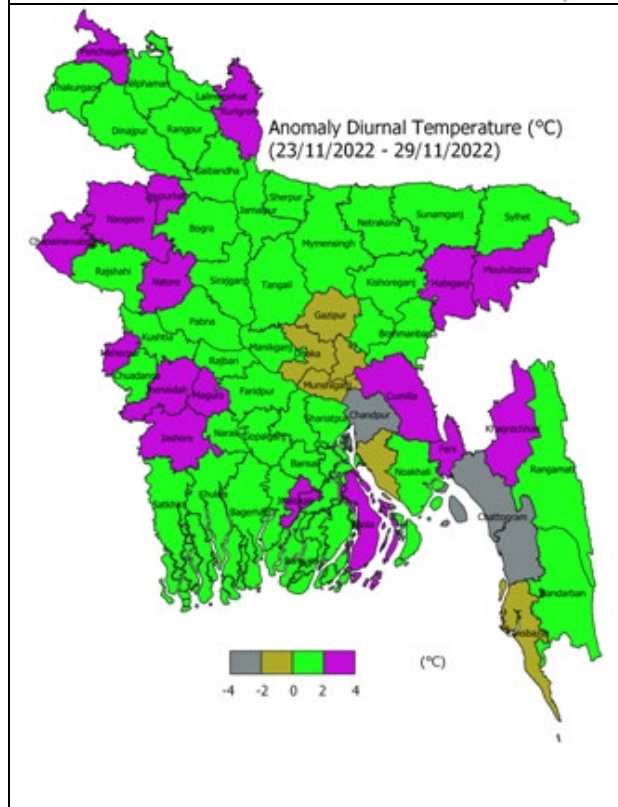
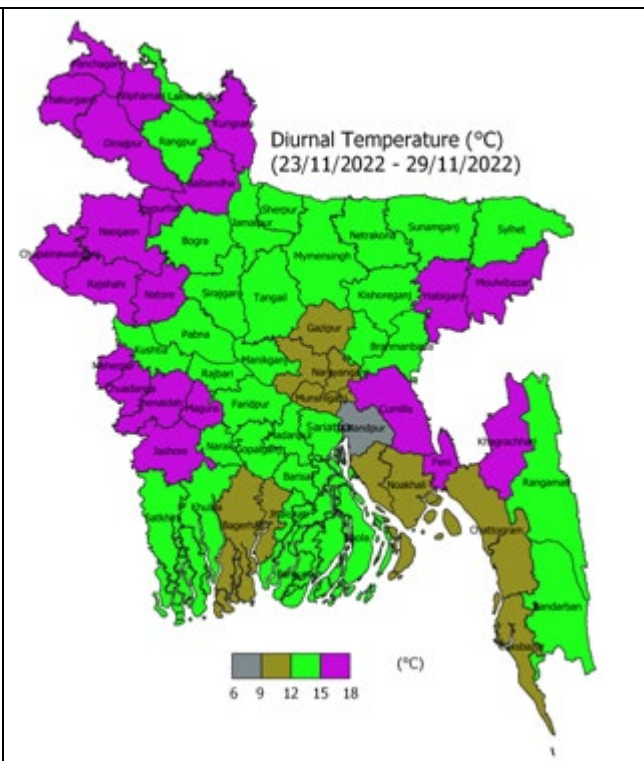
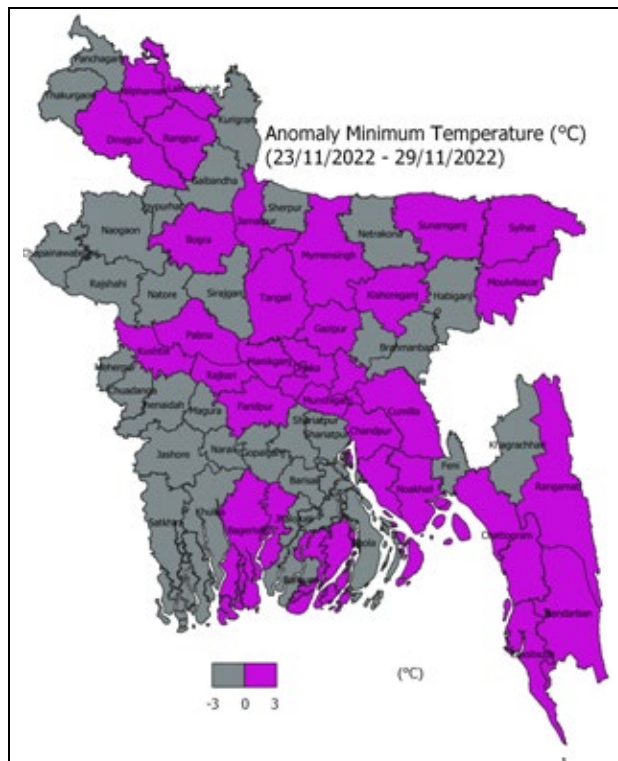
Forecast: Weather may remain mainly dry with temporary partly cloudy sky over the country, having chances of light rain at one or two places over Chattogram division.

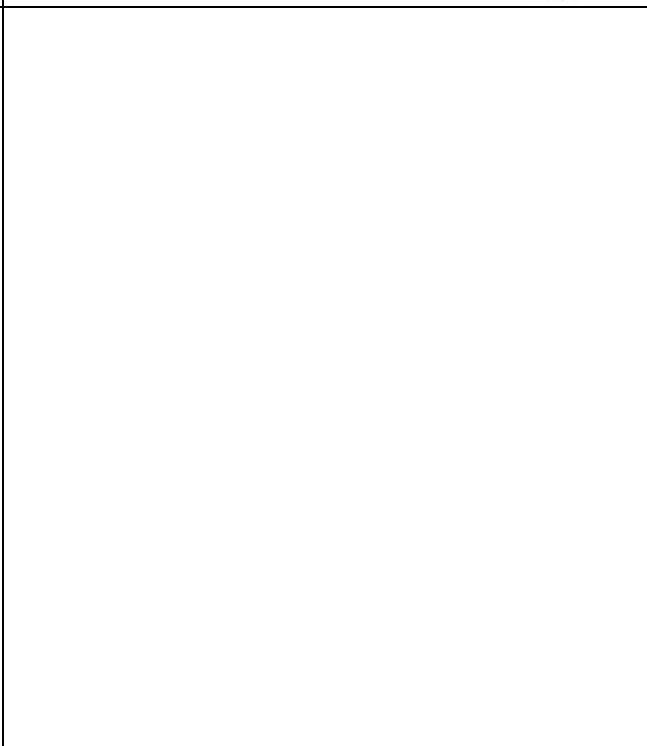
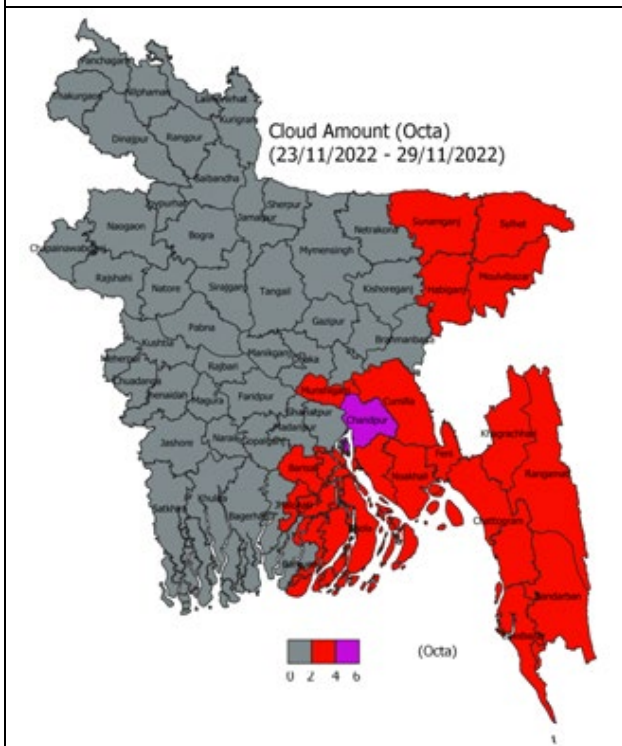
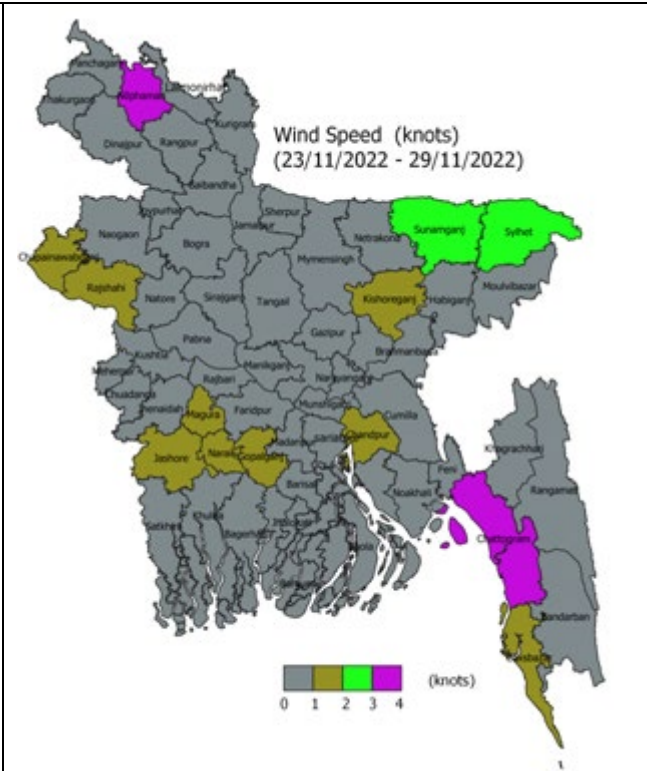
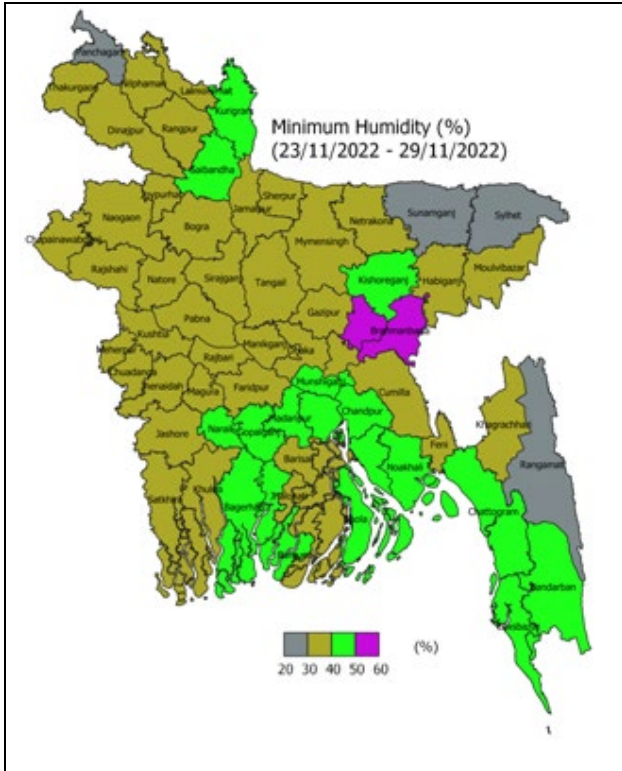
Fog: Light fog may occur at places over the country during early morning.

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

Spatial Distribution of weather parameters for the Week ending 29 November 2022





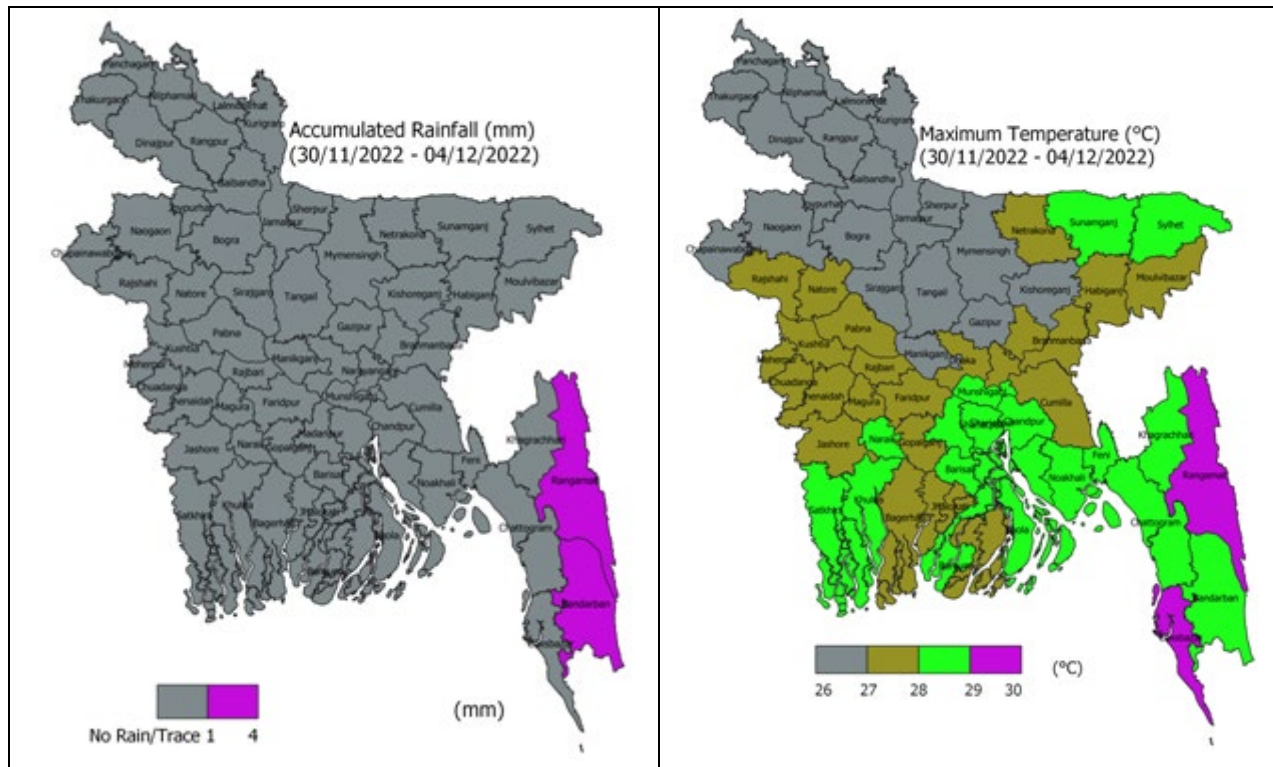


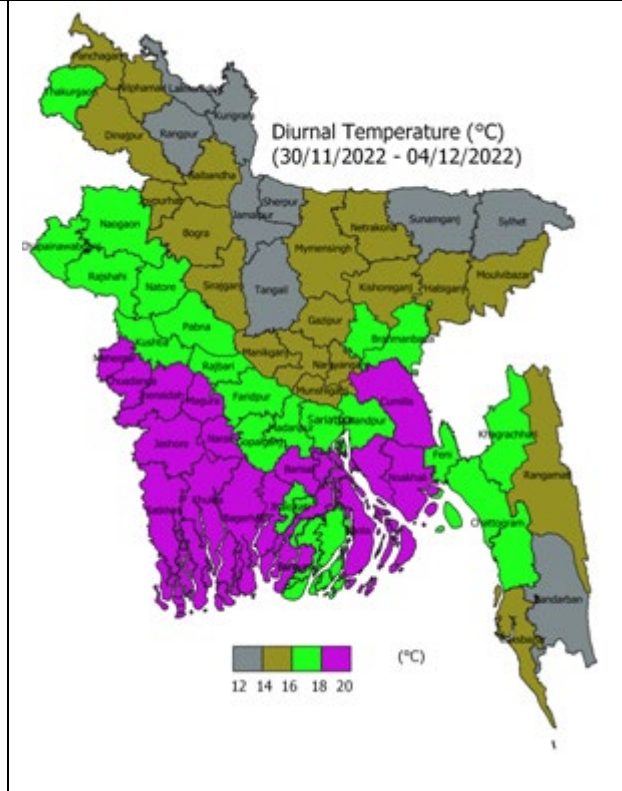
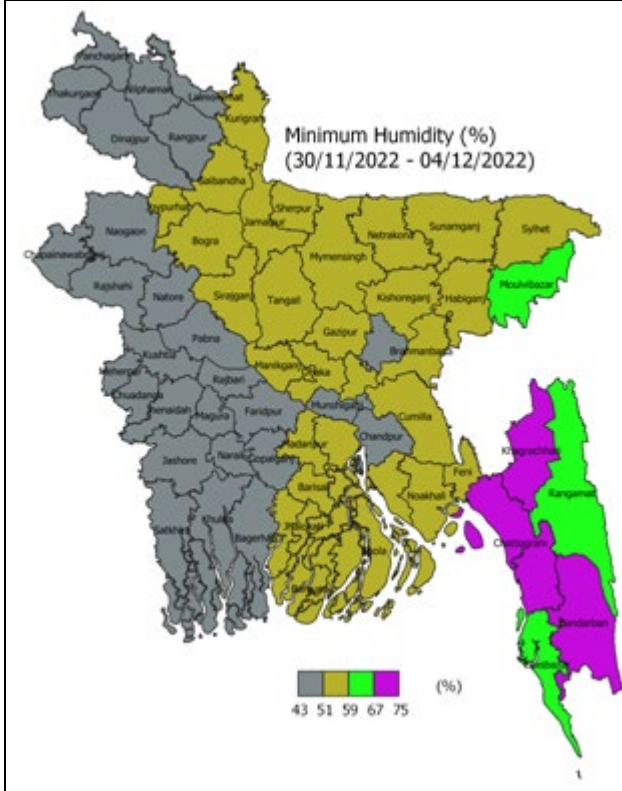
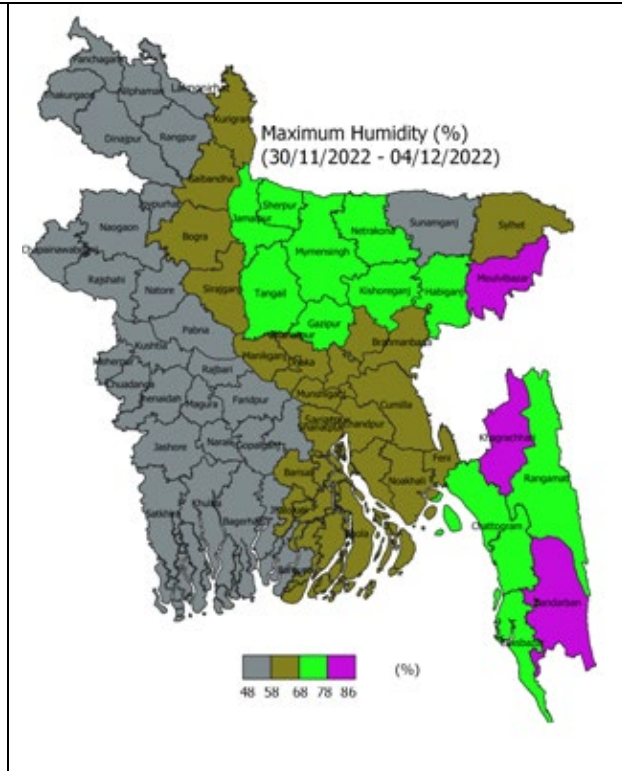
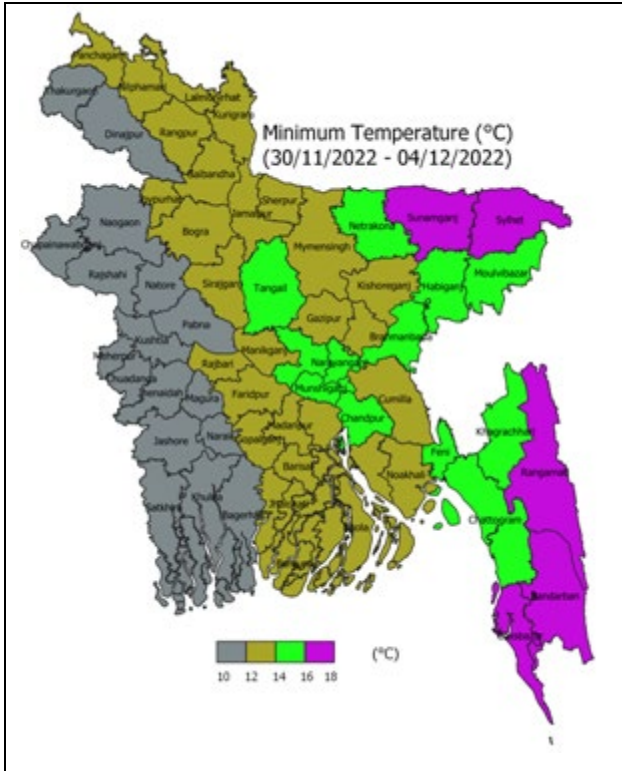
Weather Forecast and Advisory for the Period of 22.11.2022 to 30.11.2022

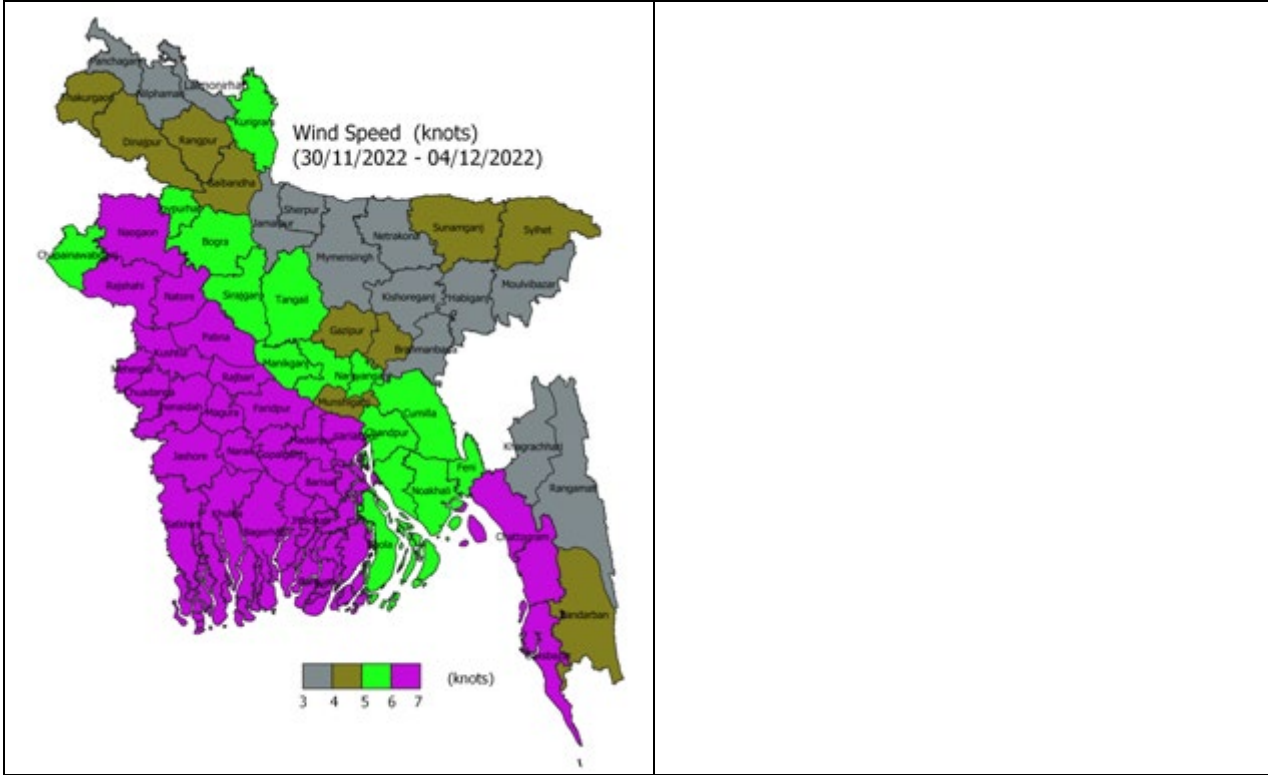
Bright sunshine hour is likely to be from 6.50 to 8.50 hours per day during this week. Average free water loss is likely to be from 2.00 to 3.00 mm per day during this week.

- Weather may remain dry with temporary partly cloudy sky over the country during this period.
- Light fog may occur at places over the country during early morning of this period.
- Day & night temperature may fall slightly during this period.

District Wise Quantitative Weather Forecast for next Five days from 30 Nov.- 04 Dec. 2022





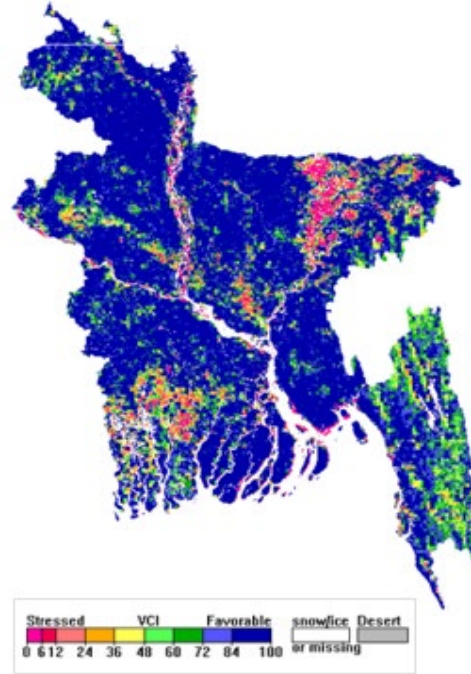


Different Satellite Products over Bangladesh

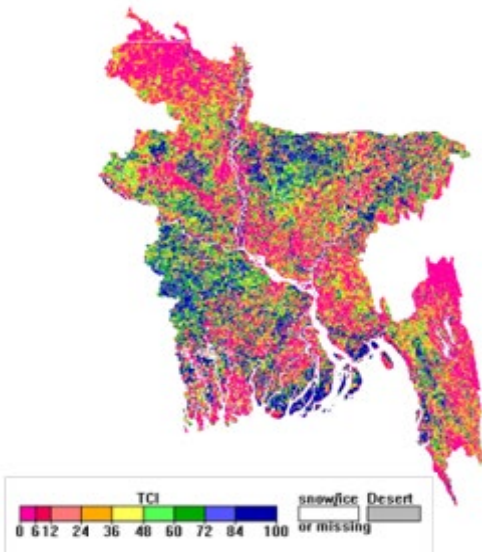
NOAA/VIIRS BLENDED NDVI composite for the week. No. 47 (19 November-25 November) over Agricultural regions of Bangladesh



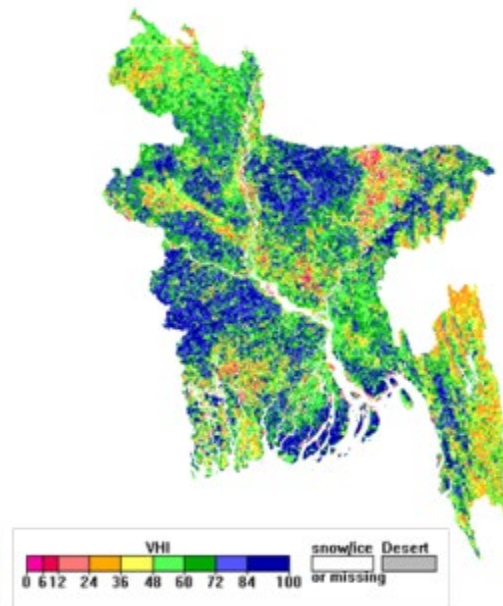
NOAA/ AVHRR BLENDED VCI composite for the week No. 47 (19 November-25 November) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 47 (19 November-25 November) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VHI composite for the week No. 47 (19 November-25 November) 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: Germination

- Monitoring of zinc deficiency is advised in normal sown wheat crop. If deficiency occurs, spray 0.2% zinc sulphate hepta hydrate ($ZnSO_4 \cdot 7H_2O$) and one supplementary dose of nitrogenous fertilizer.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast one quintal gypsum/acre followed by a light irrigation or if the soil is in proper moisture condition is advised.
- Apply light irrigation.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition., all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- Apply Irrigation.

Mustard

- **Stage:** Vegetative
- The incidence of sawfly may be seen in the mustard crops. To control this pest spray Chlorpyriphos 20 EC @ 5 ml/litre of water on fair weather.
- Apply light irrigation.

Livestock

- Give dewormer if livestock are not given dewormed.
- Keep sheds and floors clean.

Poultry

- 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.

Fishery

- Reduce food intake in winter. Stop feeding if necessary

- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

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

Wheat

Stage: Vegetative Growth

- Monitoring of termite infestation is advised in late sown wheat crop. If termite infestation is observed in the crop field, application of the mixture of 20kg sand with Chlorpyrifos group pesticide is suggested in the evening hour and thereafter irrigation is advised.
- If rats are noticed, arrange net to catch the same or apply zinc phosphide or laminate to control the attack of rats.
- Do thinning operations if the plants have been sown in dense condition.
- Apply light irrigation.

Rice Boro

- **Stage: Seedbed**
- Construct drain in between two seedbeds. This will be used for draining out extra water and irrigation as well.
- 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.
- Apply light irrigation.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

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- Coconut trees may be attacked by spiders under prevailing weather condition., all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- Apply Irrigation.

Mustard

- **Stage: Vegetative**

- 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.
- Apply Irrigation.

Livestock

- Keep sheds and floors clean.
- Give dewormer if livestock are not given dewormed.

Poultry

- 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.

Fishery

- Reduce food intake in winter. Stop feeding if necessary
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

Dinajpur Region (Districts: Dinajpur, Thakurgaon and Panchagarh)

Wheat

Stage: Germination

- Monitoring of zinc deficiency is advised in normal sown wheat crop. If deficiency occurs, spray 0.2% zinc sulphate hepta hydrate ($ZnSO_4 \cdot 7H_2O$) and one supplementary dose of nitrogenous fertilizer.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast one quintal gypsum/acre followed by a light irrigation or if the soil is in proper moisture condition is advised.
- Apply light irrigation.

Rice Boro

- **Stage: Seedbed**
- Construct drain in between two seedbeds. This will be used for draining out extra water and irrigation as well.
- 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.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

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young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.

- Apply Irrigation.

Mustard

Stage: Vegetative

- 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.
- Apply Irrigation.

Livestock

- Keep sheds and floors clean.
- Give dewormer if livestock are not given dewormed.

Poultry

- 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.

Fishery

- Reduce food intake in winter. Stop feeding if necessary
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

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

Wheat

- **Stage:** Sowing
- Farmers are advised to sow the recommended varieties crop as present climatic conditions in respect of temperature favours ideal germination of seeds. A delay in sowing to avail the maximum advantage of cool weather leads to poor crop stands.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply light Irrigation.

Horticultural

- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition., all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- Apply Irrigation.

Mustard

Stage: Germination.

- Make drains around the land to facilitate drainage of excess water.
- Apply light irrigation.

Livestock

- Keep sheds and floors clean.
- Give dewormer if livestock are not given dewormed.

Poultry

- 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.

Fishery

- Reduce food intake in winter. Stop feeding if necessary
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

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

Wheat

Stage: Germination

- Monitoring of zinc deficiency is advised in normal sown wheat crop. If deficiency occurs, spray 0.2% zinc sulphate hepta hydrate ($ZnSO_4 \cdot 7H_2O$) and one supplementary dose of nitrogenous fertilizer.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast one quintal gypsum/acre followed by a light irrigation or if the soil is in proper moisture condition is advised.
- Apply light irrigation

Rice Boro

- **Stage: Transplanting**
- Dead hills are to be replanted within 7-10 days of transplanting of Boro paddy
- Seedling of 35 to 45 days old may be transplanted.
- Maintain 5-7 cm land water level.
- Apply irrigation.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition., all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.

- Apply Irrigation.

Livestock

- Keep sheds and floors clean.
- Give dewormer if livestock are not given dewormed.

Poultry

- 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.

Fishery

- Reduce food intake in winter. Stop feeding if necessary
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

Rangamati Region (Districts: Rangamati, Khagrachari and Bandarban)

Rice Boro

- **Stage:** Seedbed
- It is advised to prepare the seedbed in high land and also make arrangements 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 and irrigation as well.
- If the seedbed becomes yellow, apply urea at the rate of 283 gm urea per decimal. Apply 400 gm gypsum per decimal if the seedlings are still not recovered after application of urea.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition., all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- Apply Irrigation.

Mustard

- **Stage:** Vegetative
- The incidence of sawfly may be seen in the mustard crops. To control this pest spray Chlorpyriphos 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

- Give Vaccination based on age and physical condition of cattle.
- Give dewormer if livestock are not given dewormed.
- Night temperature is decreasing. Wrap dairy cows and calves in chaff sacks in the morning and evening to protect against pneumonia.

Poultry

- 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.

Fishery

- Reduce food intake in winter. Stop feeding if necessary
- Start preparing the pond for the next year by harvesting all the fish if it is an annual pond.
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

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

Wheat

- **Stage:** Germination
- Monitoring of zinc deficiency is advised in normal sown wheat crop. If deficiency occurs, spray 0.2% zinc sulphate hepta hydrate ($ZnSO_4 \cdot 7H_2O$) and one supplementary dose of nitrogenous fertilizer.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast one quintal gypsum/acre followed by a light irrigation is advised.
- Farmers are advised to do intercultural operations for conserving the moisture and removing weeds within 25-30 days after sowing.
- Besides during day time when the soil is in moist condition, it is advised to apply 300-400 gm Urea per decimal to the 17-21 old crop.
- Do not allow standing water in the field as this will turn the green leaf to yellow in colour and also may damage the seedlings.
- Apply light irrigation.

Rice Boro

- **Stage:** Seedbed
- It is advised to prepare the seedbed in high land and also make arrangements for draining out of water and also advised for community based seedbed preparation.
- 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 urea per decimal. Apply 400 gm gypsum per decimal if the seedlings are still not recovered after application of urea.
- Apply light irrigation.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition., all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- Apply Irrigation.

Livestock

- Give Vaccination based on age and physical condition of cattle.
- Give dewormer if livestock are not given dewormed.
- Keep sheds and floors clean.

Poultry

- 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.

Fishery

- Reduce food intake in winter. Stop feeding if necessary
- Start preparing the pond for the next year by harvesting all the fish if it is an annual pond.
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

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

Wheat

- **Stage:** Germination
- Monitoring of zinc deficiency is advised in normal sown wheat crop. If deficiency occurs, spray 0.2% zinc sulphate hepta hydrate ($ZnSO_4 \cdot 7H_2O$) and one supplementary dose of nitrogenous fertilizer.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast one quintal gypsum/acre followed by a light irrigation is advised.
- Do not allow standing water in the field as this will turn the green leaf to yellow in colour and also may damage the seedlings.
- Apply light irrigation.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely

to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.

- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition., all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- 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 Chlorpyrphos 20 EC @ 5 ml/litre of water on fair weather.
- Apply light irrigation.

Livestock

- Give Vaccination based on age and physical condition of cattle.
- Give dewormer if livestock are not given dewormed.
- Keep sheds and floors clean.

Poultry

- 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.

Fishery

- Drain the pond and remove the black/rotten mud from the bottom.
- Repair the pond's bank if damaged.
- Reduce food in winter. Stop feeding if needed.
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

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

Wheat

Stage: Germination

- Monitoring of zinc deficiency is advised in normal sown wheat crop. If deficiency occurs, spray 0.2% zinc sulphate hepta hydrate ($ZnSO_4 \cdot 7H_2O$) and one supplementary dose of nitrogenous fertilizer.
- If symptoms of sulphur deficiency noticed in wheat crop, broadcast one quintal gypsum/acre followed by a light irrigation or if the soil is in proper moisture condition is advised.

- Do not allow standing water in the field as this will turn the green leaf to yellow in colour and also may damage the seedlings.
- Apply light irrigation.

Rice Boro

- **Stage:** Transplanting
- The main field should be prepared for transplanting of boro paddy with 3-4 times ploughing followed by laddering and Leveling should be done properly to retain water uniformity.
- Apply 13 kg urea (1/3 of total urea) as first basal dose and also 13 kg TSP, 20 kg MOP, 15kg gypsum and 15 kg zinc per bigha after complete preparation of field.
- Dead hills are to be replanted within 7-10 days of transplanting of Boro paddy
- Seedling of 35 to 45 days old may be transplanted.
- Maintain 5-7 cm land water level.
- Apply irrigation.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition., all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- Apply Irrigation.

Mustard

- **Stage:** Pod initiation
- Occurrence of sawfly may be seen in the mustard crops under the present environment conditions. To control this pest spray Chlorpyriphos 20 EC @ 5 ml/litre of water on fair weather.
- Go for intercultural operations.
- Apply light irrigation.

Livestock

- Give Vaccination based on age and physical condition of cattle.
- Give dewormer if livestock are not given dewormed.
- Keep sheds and floors clean.

Poultry

- 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.

Fishery

- Reduce food intake in winter. Stop feeding if necessary

- Start preparing the pond for the next year by harvesting all the fish if it is an annual pond.
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

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

Wheat

Stage: Germination

- Farmers are advised to do intercultural operations for conserving the moisture and removing weeds within 25-30 days after sowing.
- Besides during day time when the soil is in moist condition, it is advised to apply 300-400 gm Urea per decimal to the 17-21 old crop. Apply light irrigation.
- Apply irrigation.

Rice Boro

Stage: Transplanting

- Apply 13 kg urea (1/3 of total urea) as first basal dose and also 13 kg TSP, 20 kg MOP, 15kg gypsum and 15 kg zinc per bigha after complete preparation of field.
- Seedling of 35 to 45 days old may be transplanted.
- Maintain 5-7 cm land water level.
- Dead hills are to be replanted within 7-10 days of transplanting of Boro paddy
- Apply irrigation.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps.
- Powdery mildew disease can occur in cucumbers. For control, apply pesticides of the hexaconazole or mancozeb group.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

- Farmers are advised to go for bagging of the banana bunches with muslin cloth or polyethylene before fruit set in order to protect the fruits from the attack of banana fruit and leaf scarring beetle.
- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition., all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- 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

- Give Vaccination based on age and physical condition of cattle.
- Give dewormer if livestock are not given dewormed.
- Keep sheds and floors clean.
- If any disease symptoms appear, consult a veterinary doctor immediately for appropriate treatment.

Poultry

- If any disease symptoms appear, consult a veterinarian doctor immediately for proper treatment
- 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.

Fishery

- Drain the pond and remove the black/rotten mud from the bottom.
- Repair the pond's bank if damaged.
- Reduce food in winter. Stop feeding if needed.
- Contact the nearest upazila fisheries office if any fish disease occurs or if the desired growth is not achieved.
- Start preparing the pond for the next year by harvesting all the fish if it is an annual pond.
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

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

Rice Boro

- **Stage:** Seedbed
- It is advised to prepare the seedbed in high land and also make arrangements for draining out of water and also advised for community based seedbed preparation.
- If the seedbed becomes yellow, apply urea at the rate of 283 gm urea per decimal. Apply 400 gm gypsum per decimal if the seedlings are still not recovered after application of urea.
- 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.
- Apply light irrigation.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.

- Powdery mildew disease can occur in cucumbers. For control, apply pesticides of the hexaconazole or mancozeb group.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

- Farmers are advised to go for bagging of the banana bunches with muslin cloth or polyethylene before fruit set in order to protect the fruits from the attack of banana fruit and leaf scarring beetle.
- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition, all the young coconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- Apply Irrigation.

Livestock

- Give anthelmintic drugs.
- Give Vaccination based on age and physical condition of cattle.
- Keep sheds and floors clean.
- Night temperature is decreasing. Wrap dairy cows and calves in chaff sacks in the morning and evening to protect against pneumonia.
- If any disease symptoms appear, consult a veterinary doctor immediately for appropriate treatment.

Poultry

- If any disease symptoms appear, consult a veterinarian doctor immediately for proper treatment
- 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.

Fishery

- Drain the pond and remove the black/rotten mud from the bottom.
- Repair the pond's bank if damaged.
- Reduce food in winter. Stop feeding if needed.
- Contact the nearest upazila fisheries office if any fish disease occurs or if the desired growth is not achieved.
- Start preparing the pond for the next year by harvesting all the fish if it is an annual pond.
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

Cumilla Region (Districts: Cumilla, Chandpur, Bramanbaria)

Rice Boro

- **Stage:** Transplanting

- The main field should be prepared for transplanting of boro paddy with 3-4 times ploughing followed by laddering and Leveling should be done properly to retain water uniformity.
- Apply 13 kg urea (1/3 of total urea) as first basal dose and also 13 kg TSP, 20 kg MOP, 15kg gypsum and 15 kg zinc per bigha after complete preparation of field.
- Seedling of 35 to 45 days old may be transplanted.
- Dead hills are to be replanted within 7-10 days of transplanting of Boro paddy.
- Maintain 5-7 cm land water level.
- Apply irrigation.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- Apply Irrigation.

Mustard

- **Stage:** Vegetative
- 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

- Give Vaccination based on age and physical condition of cattle.
- Give dewormer if livestock are not given dewormed.

Poultry

- 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.

Fishery

- Reduce food intake in winter. Stop feeding if necessary
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

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

Wheat

- **Stage:** Germination

- Farmers are advised to do inter-cultural operations for conserving the moisture and removing weeds within 25-30 days after sowing.
- Besides during day time when the soil is in moist condition, it is advised to apply 300-400 gm Urea per decimal to the 17-21 old crop.
- Do not allow standing water in the field as this will turn the green leaf to yellow in colour and also may damage the seedlings.
- Apply light irrigation.

Rice Aman

Stage: Maturity to Harvesting

- Drain out water from the land 15 days before harvesting.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Powdery mildew disease can occur in cucumbers. For control, apply pesticides of the hexaconazole or mancozeb group.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

- Farmers are advised to go for bagging of the banana bunches with muslin cloth or polyethylene before fruit set in order to protect the fruits from the attack of banana fruit and leaf scarring beetle.
- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition., all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- Apply Irrigation.

Mustard

- **Stage:** Pod initiation
- Occurrence of sawfly may be seen in the mustard crops under the present environment conditions. To control this pest spray Chlorpyriphos 20 EC @ 5 ml/litre of water on fair weather.
- Go for inter-cultural operations.
- Apply light irrigation.

Livestock

- Give anthelmintic drugs.
- Give Vaccination based on age and physical condition of cattle.
- Keep sheds and floors clean.

- If any disease symptoms appear, consult a veterinary doctor immediately for appropriate treatment.

Poultry

- If any disease symptoms appear, consult a veterinarian doctor immediately for proper treatment
- 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.

Fishery

- Drain the pond and remove the black/rotten mud from the bottom.
- Repair the pond's bank if damaged.
- Reduce food in winter. Stop feeding if needed.
- Contact the nearest upazila fisheries office if any fish disease occurs or if the desired growth is not achieved.
- Start preparing the pond for the next year by harvesting all the fish if it is an annual pond.
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.

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

Wheat

Stage: Germination

- Monitoring of zinc deficiency is advised in normal sown wheat crop. If deficiency occurs, spray 0.2% zinc sulphate hepta hydrate ($ZnSO_4 \cdot 7H_2O$) and one supplementary dose of nitrogenous fertilizer.
- Do not allow standing water in the field as this will turn the green leaf to yellow in colour and also may damage the seedlings
- Apply light irrigation.

Rice Aman

- **Stage: Maturity to Harvesting**
- Drain out the water from the land 15 days before harvest.

Rice Boro

- **Stage: Seedbed**
- Apply light Irrigation.
- It is advised to prepare the seedbed in high land and also make arrangements 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 and irrigation as well.
- 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 urea per decimal. Apply 400 gm gypsum per decimal if the seedlings are still not recovered after application of urea.

Vegetable

- Eggplant may be attacked by tip and fruit borer under prevailing weather conditions. For control, cut and destroy the affected tip along with the insects. Insect reproduction is likely to be greatly reduced by using pheromone traps. Use spray of approval dose of insecticides, if necessary or recommended local organic insecticides may be used.
- Under the prevailing weather condition, there is a chance of aphid attack in beans and cabbage. Use the approved dose of Chloropyrix group of pesticides.
- Apply Irrigation.

Horticultural

- Guava may be attacked by caterpillars under the prevailing condition. For control, spray 05 grams of soap powder per liter of water.
- Coconut trees may be attacked by spiders under prevailing weather condition., all the young caconut of the affected tree should be cut down and burnt. Infected trees and nearby young trees should be sprayed with any spider repellent such as Omite 57 EC mixed in 1.5 ml of one liter of water.
- Apply Irrigation.

Mustard

- Stage: Germination.
- Make drains around the land to facilitate drainage of excess water.
- Apply light irrigation.

Livestock

- Give Vaccination based on age and physical condition of cattle.
- Give dewormer if livestock are not given dewormed.

Poultry

- 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.

Fishery

- Reduce food intake in winter. Stop feeding if necessary
- Application of 250 grams of lime per decimal at the beginning of winter helps to get rid of fish diseases.