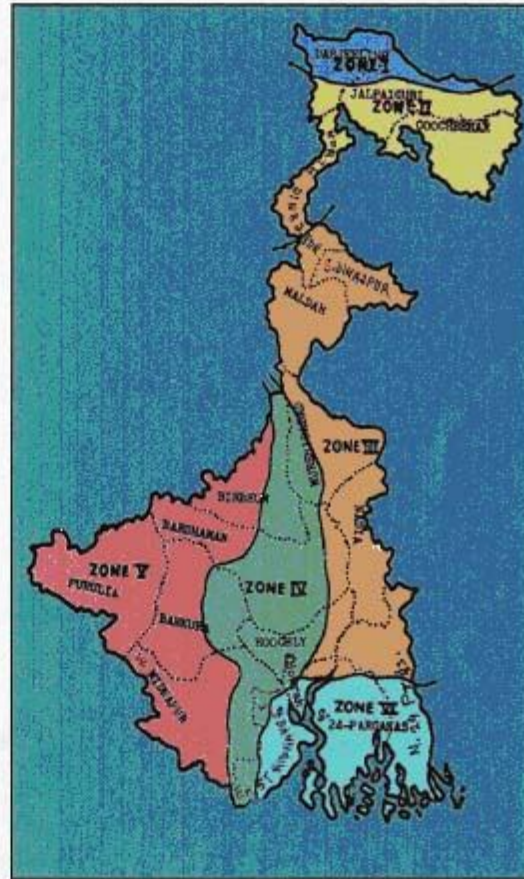


AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

For the period from 22nd December '2018 to 26th December '2018

AGROCLIMATIC REGIONS OF WEST BENGAL

-  HIMALAYAN HILLY REGION
-  TERAI AND TEESTA ALLUVIUM
-  GANGETIC ALLUVIUM
-  VINDHYA ALLUVIUM
-  RED LATERITIC
-  COASTAL SALINE



Issued on
Friday, 21st December '2018

ISSUED BY

Regional Meteorological Centre, Alipore, Kolkata-27 in collaboration with State Agricultural Universities and state Agricultural Department.

Agroclimatic zones of the state

Sl. No.	Agroclimatic Zone	Districts	Agromet Field Unit (AMFU) Location
1	Northern Hill Zone	Darjeeling	Kalimpong
2	Terai-Teesta Alluvial Zone	Jalpaiguri, Alipurduar, Coochbehar and Uttar Dinajpur.	Pundibari
3	Gangetic Alluvial Zone	Murshidabad, Nadia, North 24 Parganas, Howrah, Hooghly and Burdwan	Kalyani
4	Vindhyan Alluvial Zone	Dakhin Dinajpur, Malda	Majhian
5	Costal Saline Zone	South 24 Parganas and Purba Midnapore	Kakdeep
6	Undulating Red and Laterite Zone	Purulia, Bankura, Paschim Midnapore, Jhargram and Birbhum	Kharagpur

Met sub-divisions of the state

For Meteorological purposes, the state has been divided into two sub-divisions (IMD Classification):

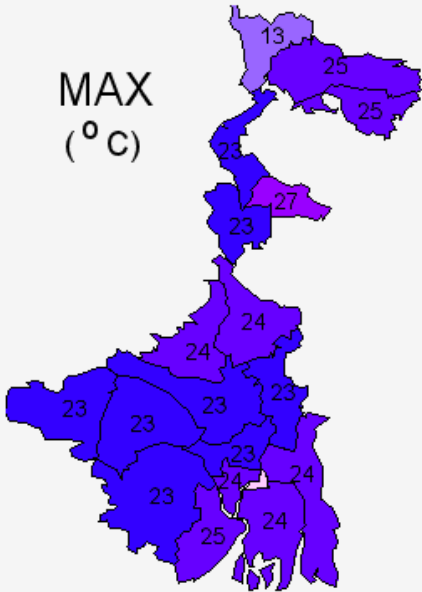
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad, Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata, Burdwan.

Sub-Himalayan West Bengal consists of Darjeeling, Coochbehar, Alipurduar, Jalpaiguri, Dakshin Dinajpur, Uttar Dinajpur.

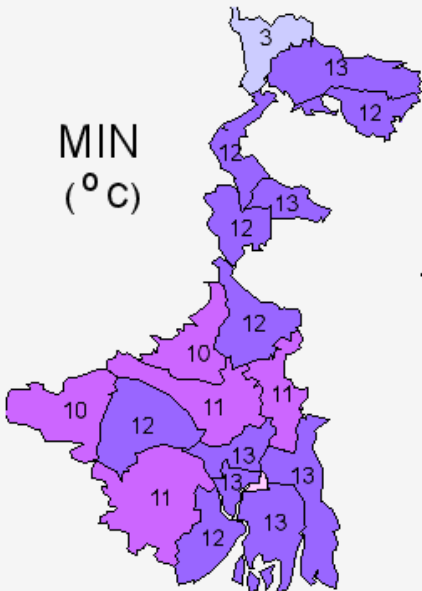
DAY 1 FORECAST

Valid up to : Saturday 22nd December 2018, 0830 hrs IST

MAX
(°C)

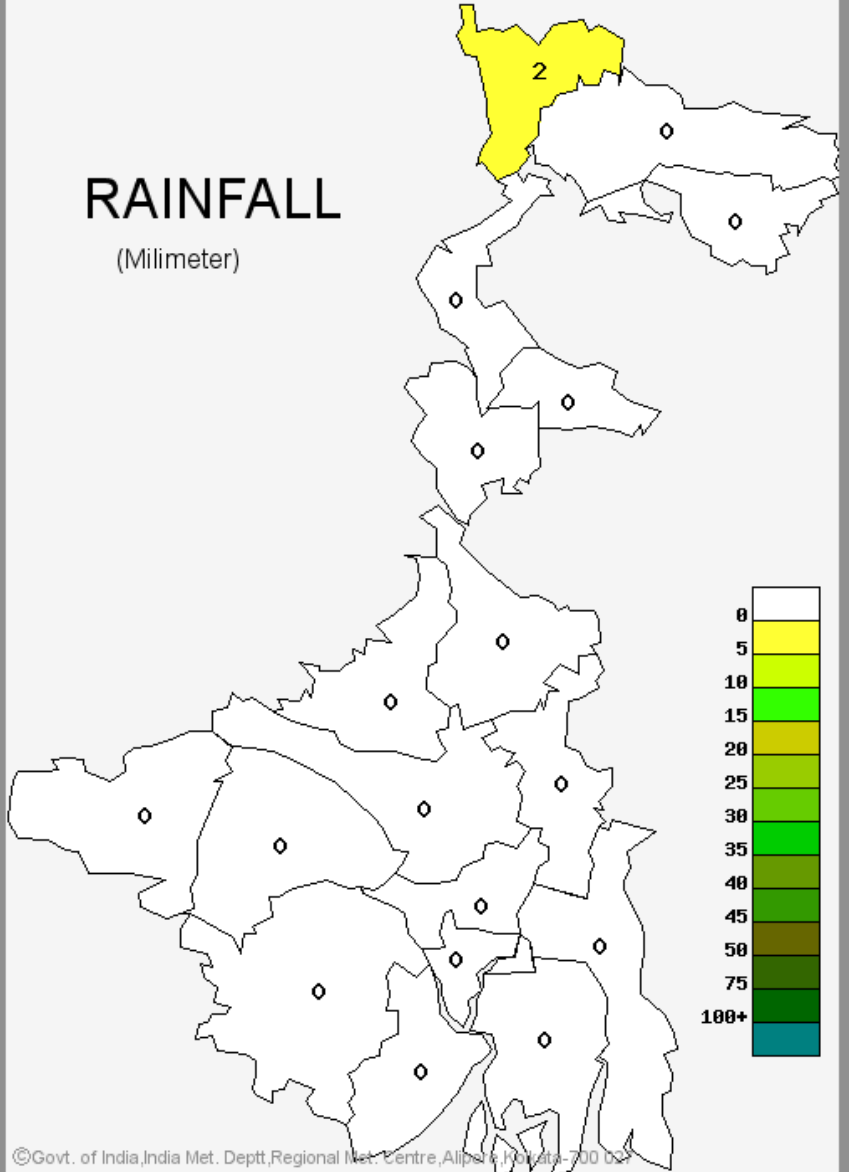


MIN
(°C)



RAINFALL

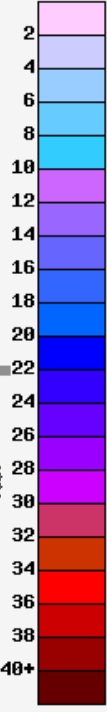
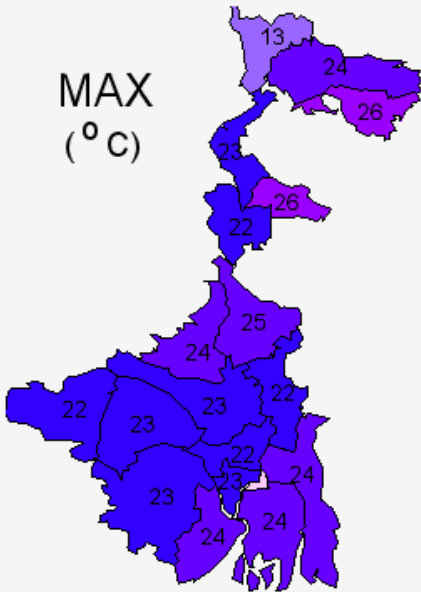
(Milimeter)



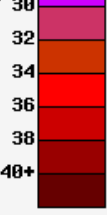
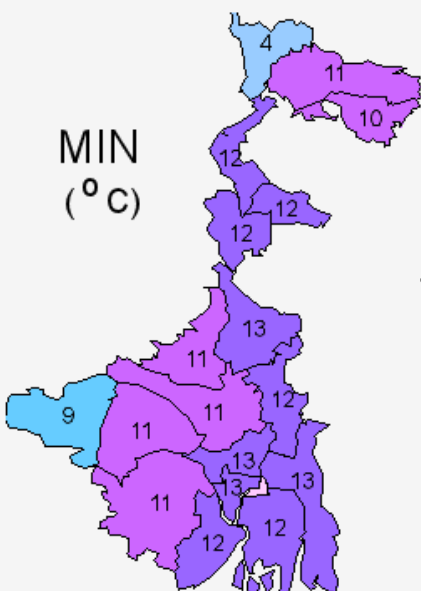
DAY 2 FORECAST

Valid up to : Sunday 23rd December 2018, 0830 hrs IST

MAX
(°C)

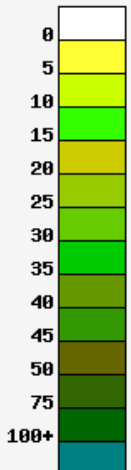
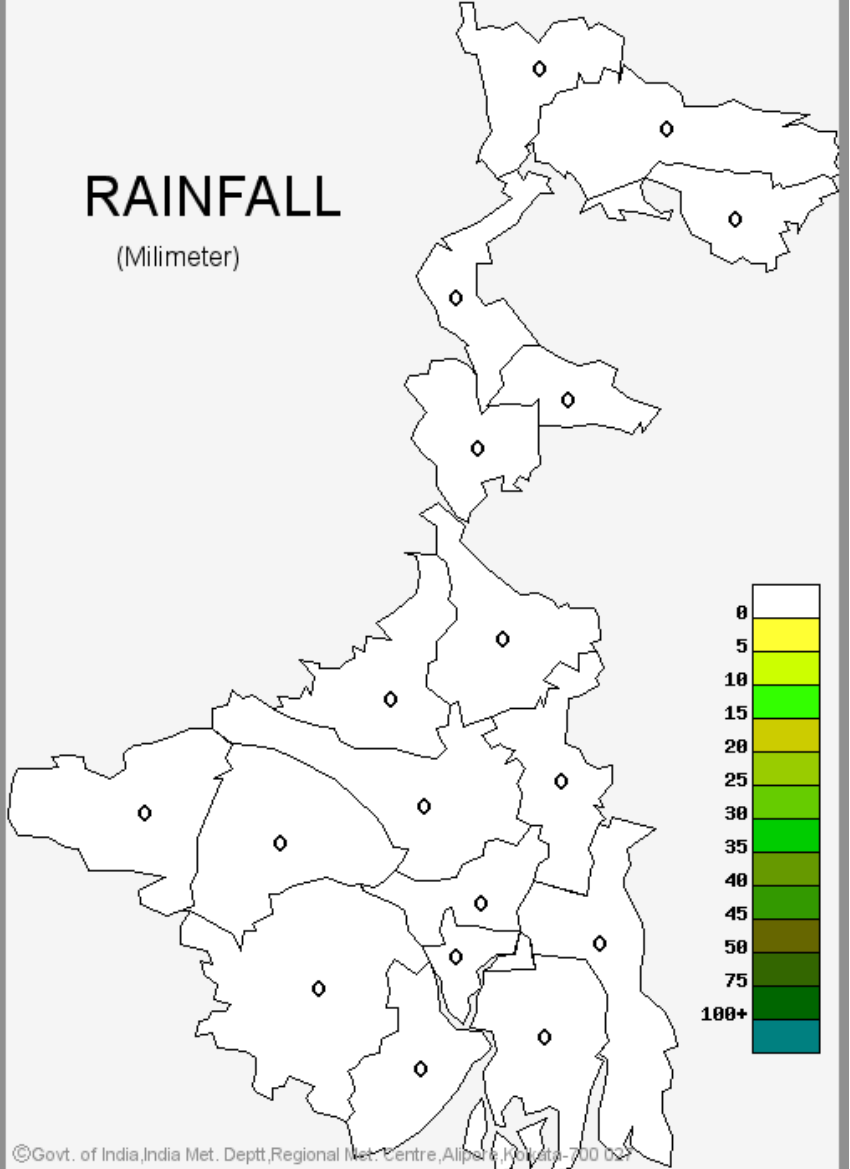


MIN
(°C)



RAINFALL

(Milimeter)

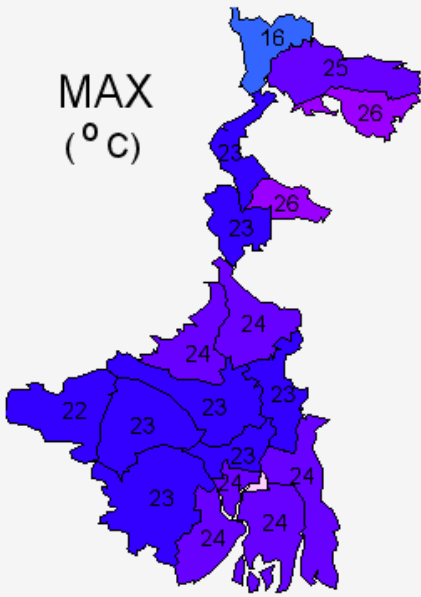


©Govt. of India, India Met. Deptt, Regional Met. Centre, Alipore, Kolkata-700 032

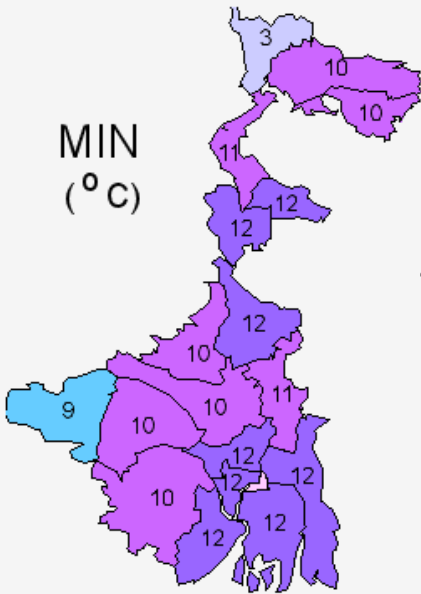
DAY 3 FORECAST

Valid up to :Monday 24th December 2018,0830 hrs IST

MAX
(°C)

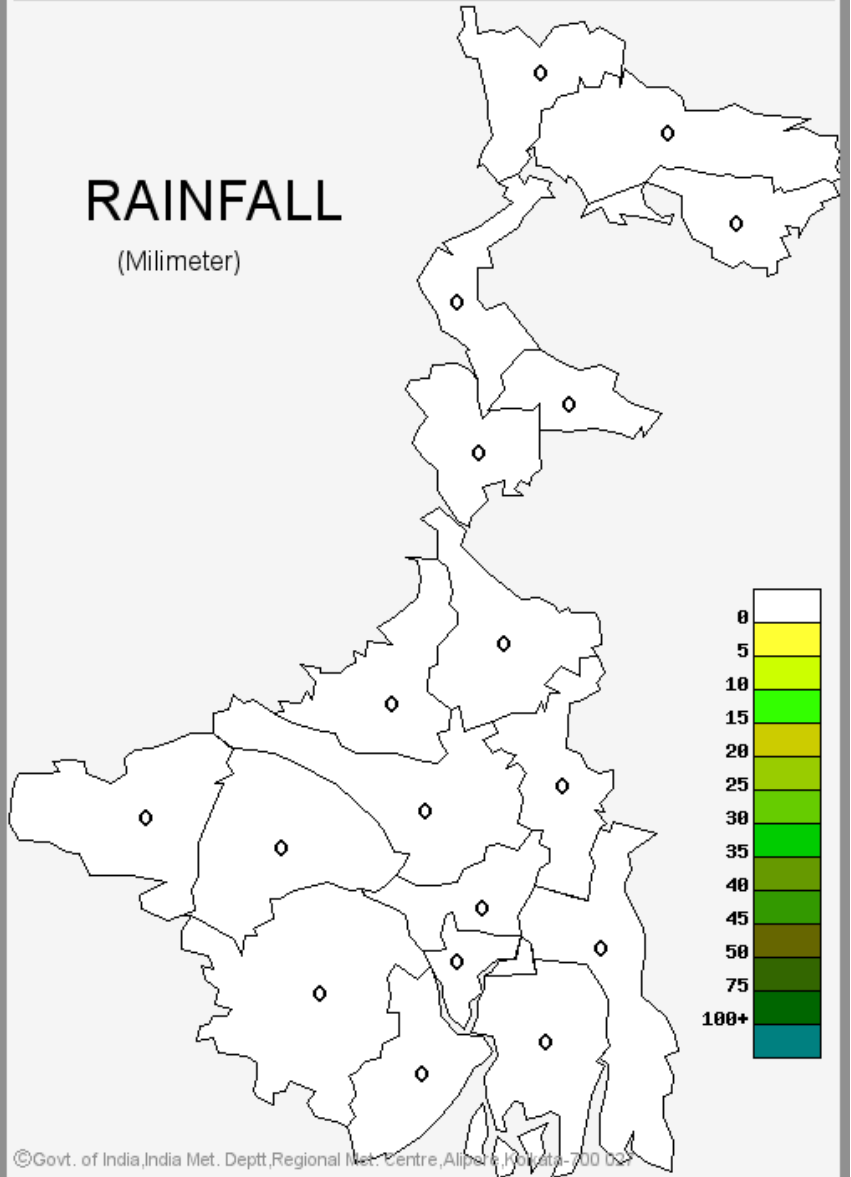


MIN
(°C)



RAINFALL

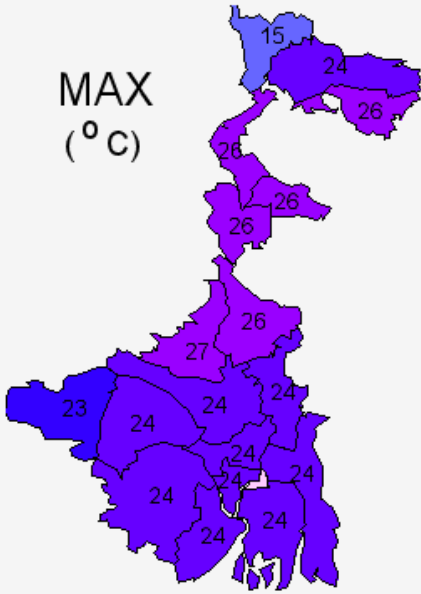
(Milimeter)



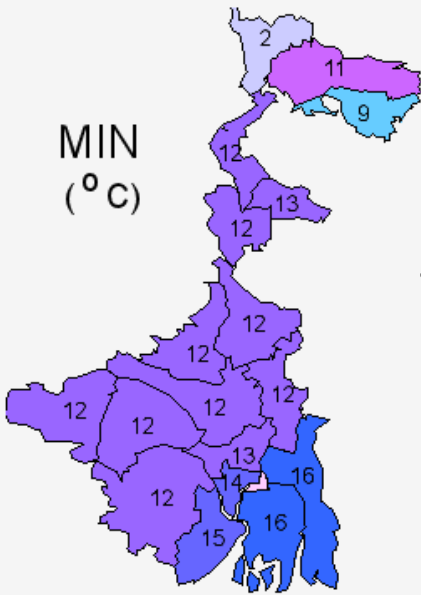
DAY 4 FORECAST

Valid up to :Tuesday 25th December 2018,0830 hrs IST

MAX
(°C)

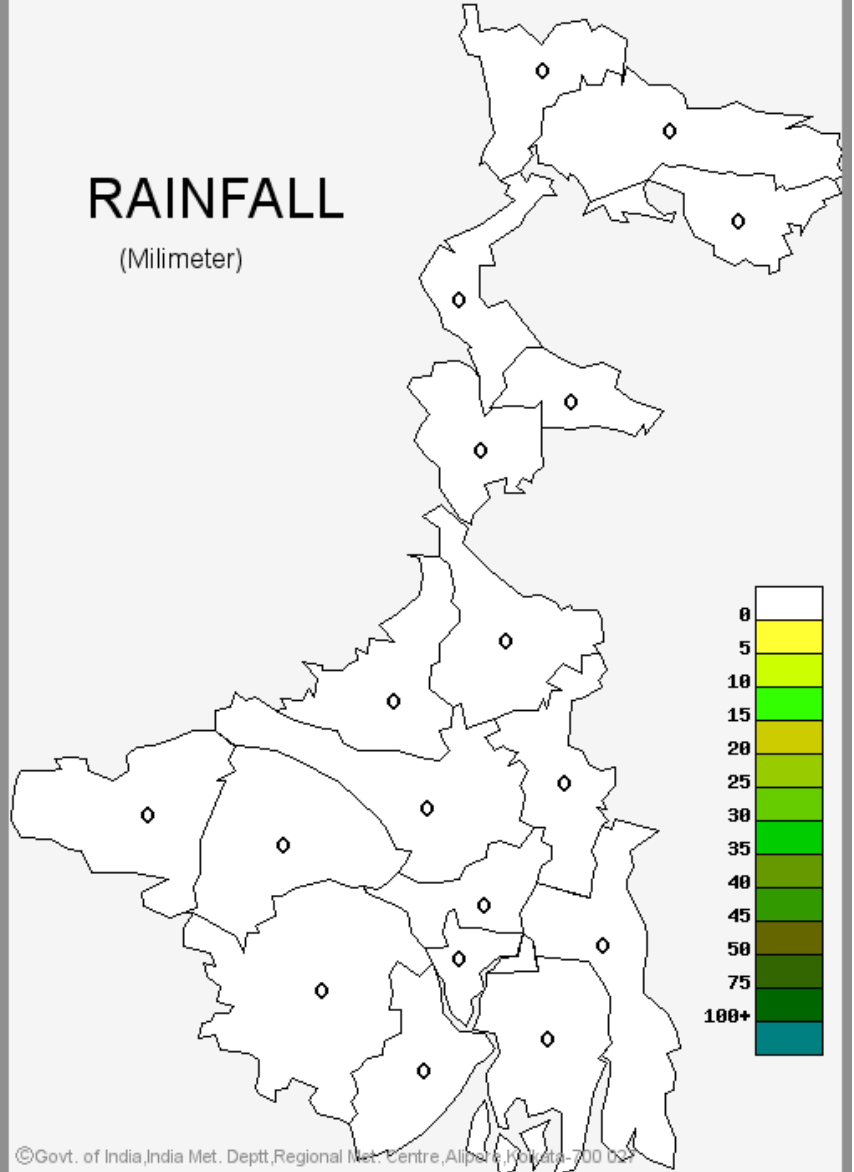


MIN
(°C)



RAINFALL

(Milimeter)

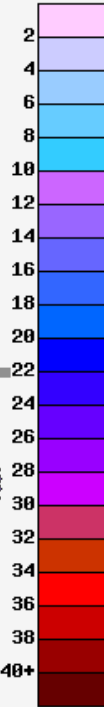
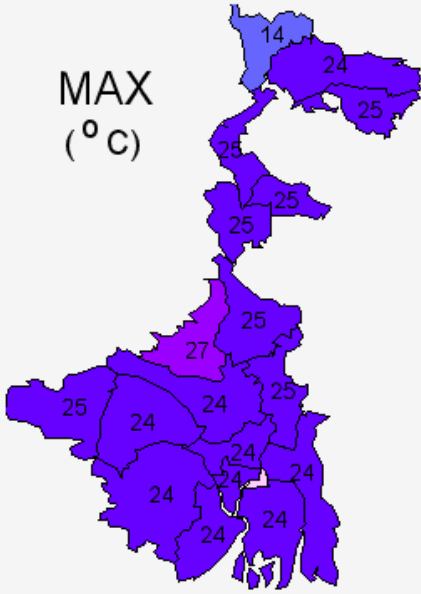


©Govt. of India, India Met. Deptt, Regional Met. Centre, Alipore Kolkata-700 032

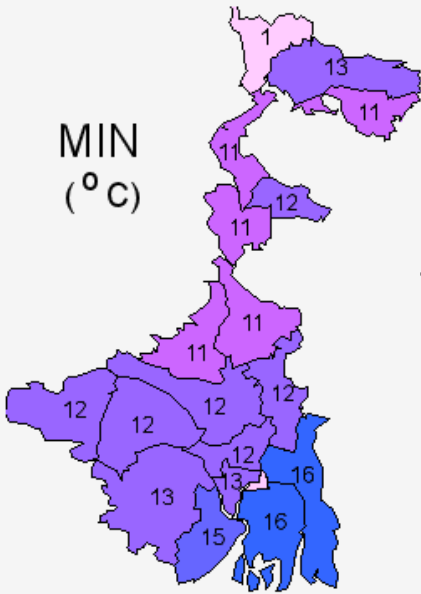
DAY 5 FORECAST

Valid up to :Wednesday 26th December 2018,0830 hrs IST

MAX
(°C)

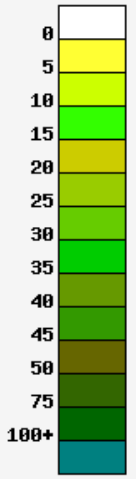
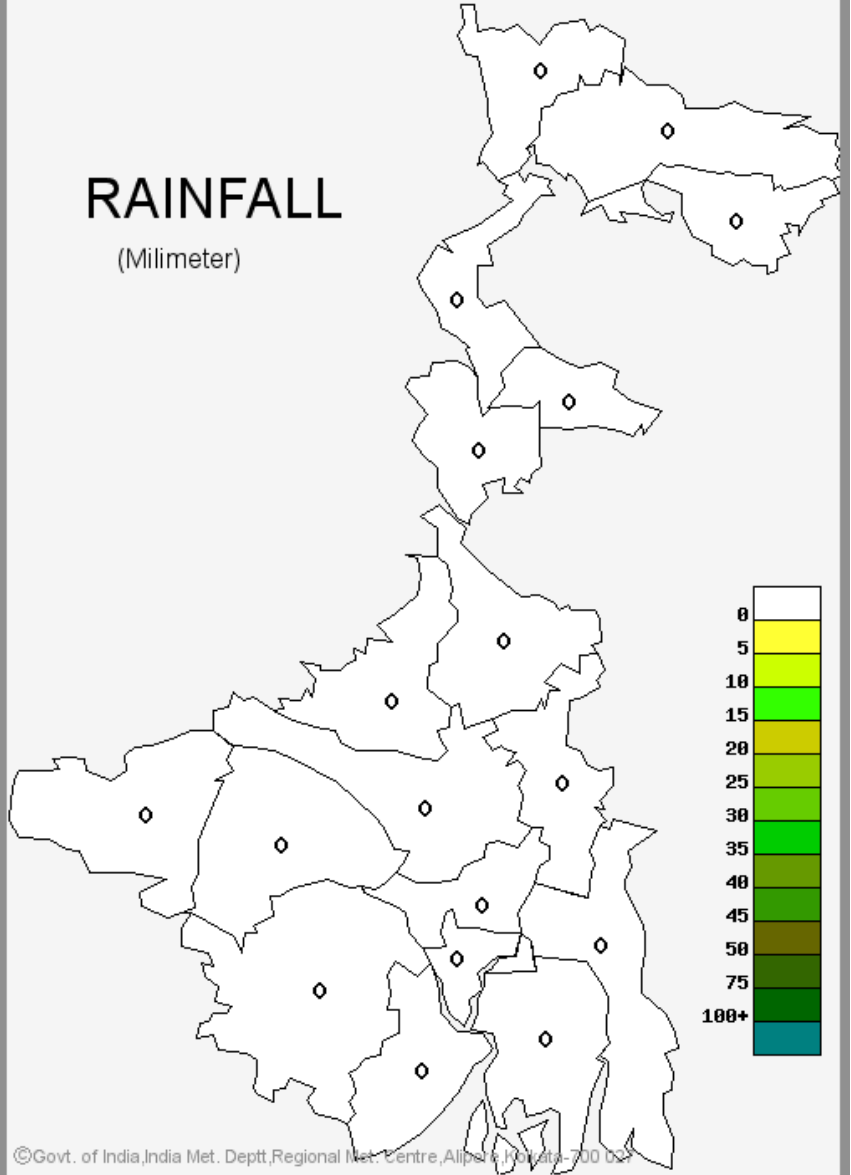


MIN
(°C)



RAINFALL

(Milimeter)



©Govt. of India,India Met. Deptt,Regional Met. Centre,Alipore,New Delhi-700 002

Part I: Weather

Districtwise significant Past Weather in different agroclimatic zones for the period 18/12/18 to 20/12/18

District level Weather Forecast for different agroclimatic zones for the period 22/12/18 to 26/12/18

West Bengal

Northern Hill Zone

DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	8.0	6-15	2-3	87-98
Wednesday	--			
Thursday	0.0			

DARJEELING

Rainfall	Possibilities of very light rainfall on 22 nd Dec and rest of the days no rainfall have been forecasted. In coming five days total rainfall of 2.0 mm is expected.
Cloud Cover	Possibilities of clear sky are expected for coming five days.
Max. Temp.	Maximum temperature is expected to be around 13 to 16°C.
Min. Temp.	Minimum temperature is expected to be around 1.0 to 4.0°C.
Max. RH	Maximum relative humidity is expected to be around 59-78%.
Min. RH	Minimum relative humidity is expected to be around 30-46%.
Wind	Wind mainly will blow from south-easterly on 22 nd , 26 th Dec, southerly on 25 th Dec and rest of the days wind mainly will blow from westerly direction. In coming five days wind mainly will blow with a speed of 6.5- 7.0 km/hr is expected.

Terai-Teesta Alluvial Zone

COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	1.2	18-22	9-10	88-95
Wednesday	3.0			
Thursday	0.0			

COOCHBEHAR

•

JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	1.2	18-22	11-15	80-98
Wednesday	3.6			
Thursday	0.0			

JALPAIGURI

•

NORTH DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	22-23	11-12	77-86
Wednesday	0.0			
Thursday	0.0			

NORTH DINAJPUR

•

Gangetic Alluvial Zone

BURDWAN

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	24.4	23-26	13-13	66-84
Wednesday	3.4			
Thursday	0.0			

BURDWAN

Clear sky is expected during next 5 days .
 No rainfall is expected during rest 5 days.
 Wind flow mainly from N direction with 8.2- 11.2 km/h speed during next 5 days is expected.
 Maximum relative humidity is expected to be around 40-60% and minimum relative humidity is expected to be around 23% - 37%.
 Maximum temperature is expected to be around 25°C-27°C and minimum temperature is expected to be around 12°C .

MURSHIDABAD

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	16.0	22-22	11-14	67-98
Wednesday	8.0			
Thursday	0.0			

MURSHIDABAD

Clear sky is expected during next 5 days .
 No rainfall is expected during rest 5 days.
 Wind flow mainly from N direction with 8.3- 12.8 km/h speed during next 5 days is expected.
 Maximum relative humidity is expected to be around 40-59% and minimum relative humidity is expected to be around 26% - 38%.
 Maximum temperature is expected to be around 24°C-27°C and minimum temperature is expected to be around 11 °C - 12°C .

NADIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	16.8	19-22	11-12	75-99
Wednesday	14.6			
Thursday	--			

NADIA

Clear sky is expected during next 5 days .
 No rainfall is expected during rest 5 days.
 Wind flow mainly from N direction with 8.8- 13.2 km/h speed during next 5 days is expected.
 Maximum relative humidity is expected to be around 40-65% and minimum relative humidity is expected to be around 27% - 38%.
 Maximum temperature is expected to be around 25°C-27°C and minimum temperature is expected to be around 12°C .

HOOGHLY

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	14.8	22-24	13-16	71-97
Wednesday	3.8			
Thursday	0.0			

HOOGHLY

Clear sky is expected during next 5 days .
 No rainfall is expected during rest 5 days.
 Wind flow mainly from N direction with 8.4- 12.1 km/h speed during next 5 days is expected.
 Maximum relative humidity is expected to be around 40-65% and minimum relative humidity is expected to be around 26% - 38%.
 Maximum temperature is expected to be around 25°C-27°C and minimum temperature is expected to be around 12°C-13 °C .

HOWRAH

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	7.4	23-24	11-11	73-97
Wednesday	1.6			
Thursday	--			

HOWRAH

Clear sky is expected during next 5 days .
 No rainfall is expected during rest 5 days.
 Wind flow mainly from N direction with 8.9- 12.4 km/hr speed during next 5 days is expected.
 Maximum relative humidity is expected to be around 44-63% and minimum relative humidity is expected to be around 23% - 35%.
 Maximum temperature is expected to be around 25°C-27°C and minimum temperature is expected to be around 13°C-14°C .

NORTH 24 PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	4.0	23-24	13-16	79-97
Wednesday	3.0			
Thursday	0.0			

NORTH 24 PGS

Clear sky is expected during next 5 days .
 No rainfall is expected during rest 5 days.
 Wind flow mainly from N direction with 10.2- 14.5 km/hr. speed during next 5 days is expected.
 Maximum relative humidity is expected to be around 44-65% and minimum relative humidity is expected to be around 25% - 37%.
 Maximum temperature is expected to be around 25°C-27°C and minimum temperature is expected to be around 15°C-16°C .

Vindhyan Alluvial Zone**DAKSHIN DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.1	26-27	13-14	47-85
Wednesday	-			
Thursday	0.1			

DAKSHIN DINAJPUR

- Possibility of mainly clear sky on 22nd December and clear sky on 23rd to 26th December.
- There seems to be possibility of no rain on 22nd to 26th December.
- Wind from Northerly, North-westerly & Westerly direction with an average speed of 7.4-10.1 Km/hr. is expected.
- Maximum temperature is expected to be around 25.0-26.0°C and minimum temperature is expected to be 12.0-13.0°C.
- Maximum and minimum relative humidity is expected to be 53-67% and 29-49% respectively

MALDA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	9.1	18-21	12-16	87-97
Wednesday	3.8			
Thursday	0.0			

MALDA

- Possibility of mainly clear sky on 22nd December and clear sky on 23rd to 26th December.
- There seems to be possibility of no rain on 22nd to 26th December.
- Wind from North-westerly direction with an average speed of 8.1-11.8 Km/hr. is expected.
- Maximum temperature is expected to be around 22.0-26.0°C and minimum temperature is expected to be 11.0-12.0°C.
- Maximum and minimum relative humidity is expected to be 48-57% and 26-39% respectively.

Coastal Saline Zone

PURBA MIDNAPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	4.9	18-25	10-16	66-99
Wednesday	1.6			
Thursday	0.0			

PURBA MIDNAPUR

➤

SOUTH 24-PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	4.5	19-25	11-17	75-100
Wednesday	2.6			
Thursday	0.0			

SOUTH 24-PGS

--

Undulating Red and Laterite Zone**PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	16.4	17-23	13-15	70-97
Wednesday	3.8			
Thursday	0.0			

PASCHIM MIDNAPORE

- Moderate rainfall on Wednesday and partially clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 8.2-10.2 km per hour will blow for coming five days.
- Relative humidity maximum will be 46-64 % and minimum will be 24-38 %
- Maximum temperature will be 23-24°C and minimum will be 10-13°C.

BANKURA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	37.6	17-23	12-14	84-97
Wednesday	7.8			
Thursday	0.0			

BANKURA

- Moderate rainfall on Wednesday and partially clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 8.0-10.7 km per hour will blow for coming five days.
- Relative humidity maximum will be 47-61 % and minimum will be 21-34 %
- Maximum temperature will be 23-24°C and minimum will be 10-12°C.

PURULIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	35.0	16-22	10-13	75-95
Wednesday	2.0			
Thursday	0.0			

PURULIA

- Moderate rainfall on Wednesday and partially clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 7.3-8.9 km per hour will blow for coming five days.
- Relative humidity maximum will be 48-62 % and minimum will be 20-28 %
- Maximum temperature will be 22-25°C and minimum will be 09-12°C.

BIRBHUM

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	18.1	17-23	10-15	84-99
Wednesday	9.6			
Thursday	0.0			

BIRBHUM

- Light rainfall on Wednesday and partially clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 8.2-11.3km per hour will blow for coming five days.
- Relative humidity maximum will be 45-58 % and minimum will be 23-37 %
- Maximum temperature will be 24-27°C and minimum will be 10-12°C.

Andaman & Nicobar Islands**ANDAMAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	1.3	28-33	17-25	70-100
Wednesday	17.9			
Thursday	5.6			

NORTH MIDDLE ANDAMAN

. Partly cloudy weather with light to moderate rainfall is likely to occur during next five days. In North and Middle Andaman 71 mm of rainfall is expected during this period. The maximum temperature in North and Middle Andaman will be 30.0 to 31.0 °C with minimum temperature of 25.0 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 78 to 84 % and 67 to 74 % respectively in North and Middle Andaman. Wind speed of 9.5 to 18.6 km/h is expected from South Easterly direction.

SOUTH ANDAMAN.

- Partly cloudy weather with moderate rainfall is likely to occur during next five days. In South Andaman 65.0 mm of rainfall is expected during this period. The maximum temperature in South Andaman will be 30.0 to 31.0 °C with minimum temperature of 24 to 25 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 76 to 82 %, and 70 to 75 % respectively in South Andaman. Wind speed of 9.3 to 17.7 km/h is expected from North Easterly direction.

NICOBAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	14.8	28-33	24-25	86-100
Wednesday	38.2			
Thursday	0.0			

NICOBAR

- Partly cloudy weather with light rainfall is likely to occur during next five days. In Nicobar Islands 5.0 mm of rainfall is expected during this period. The maximum temperature will be 30.0 to 33.0 °C with minimum temperature of 27 to 28 °C, whereas the maximum and minimum relative humidity is expected to be 76 to 81 %, and 68 to 75 %, respectively in Nicobar Islands. Wind speed of 5.2 to 12.6 km/h is expected from North Easterly direction..

Part II: Agroclimatic zonewise Agricultural/Agro meteorological Advisories

West Bengal

Northern Hill Zone

MAJOR CROPS	STAGE	PEST & DISEASES	ADVISORY
General	-	-	In coming five days very light rainfall on 22 nd Dec and rest of the days no rainfall has been forecasted so, irrigate the crops as per the requirement. Agricultural vigour is in moderate condition in Darjeeling district according to the Normalized Difference Vegetation Index (NDVI) map from 10 th Dec to 16 th Dec, 2018 According to the Standardized Precipitation Index (SPI) map cumulative four weeks for the period from 22 nd Nov to 19 th Dec, 2018 Darjeeling district experienced mildly wet condition.
Large cardamom	Vegetative Stage	-	Use leaf mold at base of clump for moisture conservation.
Mandarin Orange	Harvesting and Non Bearing-vegetative stage	-	Harvesting of fruits should be continued with care without breaking branches and fallen fruit should be collected and destroyed. For non bearing trees, pruning of dried and overcrowded branches then spray copper oxychloride 2gm /lit of water with wettable sulphur 0.2%. Irrigation should be provided as per the requirement to the orchards as total 2 mm rainfall has been forecasted for coming five days.
Ginger	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants should be done. Healthy plots should be marked for seed rhizome for next season.
Turmeric	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants should be done. Healthy plots should be marked for seed rhizome for next season.
Rice	Maturity Stage	-	If the crop is matured than harvest the crop as early as possible.
Cole Crop (Cauliflower, Cabbage, etc)	Vegetative stage	-	Weeding should be done and irrigate the crops as per the requirement.
Potato	Planting	-	Planting of potato tuber should be done at 60 cm x 25 cm spacing, tuber weight 30-50 gm and seed rate 20-25 q / ha. Before planting of tubers, it should be treated with 1% chlorocin solution followed by rinsing in fresh water. The well washed tubers then may be treated with 3% solution of boric acid for 20 minutes and dried in shade.
Garden Pea	Vegetative stage	-	Weeding should be done and irrigate the crops as per the requirement.
Mustard	Land preparation and sowing	-	At the time of land preparation 40 kg Nitrogen, 40 kg phosphorus and 20 kg potassium per hectare should be incorporated. In boron deficient soil borax should be applied @ 10 kg per hectare during final land preparation. Mustard should be sown at 30cmx 5-7 cm spacing and seed rate 5-6 kg per hectare.
Animal Husbandry (Sheep and Goat)	-	-	Sheep and goat are susceptible to Pneumonia and FMD in winter months. Take protective measure in winter months. Give vaccination against FMD. Don't allow sheep and goat to graze at early morning.

Terai-Teesta Alluvial Zone

Advisory

GENERAL

Agriculture and Horticulture

Main Crops	Stage	Pest & Diseases	Advisory

ANIMAL HUSBANDRY & FISHERY

Name of Animal	Disease	Control measures

Gangetic Alluvial Zone

Crop	Stage	Advisory
Mustard	Vegetative stage	Plant spacing should be maintained at 12-15 cm by thinning. Intercultural operations like light spading and weeding. If required, light irrigation should be given.

Boro Paddy	Sowing	Start sowing of boro paddy.
Gram and Pea	Vegetative stage	Intercultural operations like light spading and weeding should be done. In case of collar rot, drenching the soil with a combination of chlorothalonil (2g) + carbendazim (1 g)/lt of water.
Cabbage, Cauliflower, Broccoli, Tomato,ChilliBean,Pointed Gourd,cucumber	Vegetative	Intercultural operations like light spading and weeding should be done followed by 1 st top dressing of nitrogenous fertilizer and earthing up for cabbage, cauliflower,broccoli,tomato,chilli. After fertilizer application, light irrigation should be given. No need to apply nitrogenous fertilizer in case of french bean at this stage but other operations should be followed. For pointed gourd after sprouting/germination of vine/root cuttings, hand weeding followed by mulching with paddy straw should be done. If downy mildew appears in the leaf, alternate spraying with cymoxanil-mancozeb (Curzate) (2.5 g/lt) and fosetyl Al (Alliet) (2.5g/lt) at 10 days interval is very effective.
Rabi Maize	Sowing or Seedling	Continue sowing of rabi Maize. Deep ploughing & sundrying of the field to prevent the attack of soil borne insect is advised. 1-2 ton cow dung manure or vermicompost is required at the time of final land preparation. 10 Kg Urea,35 Kg SSP,9Kg Potash may be added as basal. 2-2.5 Kg seed is needed per bigha for line sowing. Early varieties like Sathi, Kathi, Tin Pakhi, Medium varieties like Keti41, Janunpur, Late varieties like Ganga-1,101,5 , D-Can, Ganga Safed etc are recommended.Light irrigation should be given for optimum moisture condition of the field to ensure proper germination.
Potato	Sprouting /Vegetative stage	If planting is done end of November to first week of December, depending on the soil moisture, apply splash irrigation at 3-4 days interval up to 2-3 days before 1 st earthing up. If planting is done before 15 th of November, light spading followed by hand weeding at this stage is necessary. First top dressing with 1/4 th amount of total nitrogen (200 kg N) + 1/4 th amount of total potash (150 kg) followed by earthing up should be done. Apply chloropyriphos @ 2.5 ml/lt of water against the attack of cut worm and leaf eating insect.
Rabi Onion & Garlic	Vegetative	Intercultural operations like light spading and weeding should be done. Propiconazole (Tilt) @ 1ml/l with a sticker 4-5 times starting from 15 days after transplanting to check purple blotch disease
Flowers like Marigold, Chrysanthemum & Gladiolus	Vegetative	Intercultural operations like light spading and weeding should be done.
Spinach, Radish, Fenugreek, Coriander, Turnip	Vegetative	Extra seedlings should be thinned out. Intercultural operations like light spading and weeding should be done.
Mango Orchard	General	Wrapping of plastic sheets around mango trunk should be done for preventing climbing of young mealy bugs. Apply grease to seal any cracks in the polythene sheets. Irrigation should be done in all orchards.

			Cold weather favours the pest multiplication. Spray Imidacloprid @1ml/1.5 lit of water
Cabbage/ Cauliflower	Vegetative stage/ Flower development	Aphid and Diamond backmoth	Spray Need Seed Kernal Extract solution @30ml/lit of water at clear weather condition.
General (NDVI, SPI)	Crop coverage is good and soil is moderately wet in condition for the district. Due to moderate soil moisture, no need for supplemental irrigation to crops.		

Andaman & Nicobar Islands

For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Fruiting	<ul style="list-style-type: none"> Observe for fruit and shoot borer in brinjal and to avoid its spread, remove the infested plant and fruits from the field.
Vegetable	Fruiting	<ul style="list-style-type: none"> Apply neem oil @ 30 ml/lit of water along with teepol @ 0.5 ml/lit to control pod borer in beans
Fish	Growing	<ul style="list-style-type: none"> Feed the fingerlings of Indian major carp with rice bran and ground nut oil cake at 1:1 ratio at the rate of 5 % of body weight.
Poultry	All	<ul style="list-style-type: none"> Provide calcium carbonate @ 3 % mixed with feed to the poultry birds.

For South Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Fruiting	<ul style="list-style-type: none"> Observe for fruit and shoot borer in brinjal and to avoid its spread, remove the infested plant and fruits from the field.
Vegetable	Fruiting	<ul style="list-style-type: none"> Apply neem oil @ 30 ml/lit of water along with teepol @ 0.5 ml/lit to control pod borer in beans
Fish	Growing	<ul style="list-style-type: none"> Feed the fingerlings of Indian major carp with rice bran and ground nut oil cake at 1:1 ratio at the rate of 5 % of body weight.
Poultry	All	<ul style="list-style-type: none"> Provide calcium carbonate @ 3 % mixed with feed to the poultry birds.

For Nicobar

Crop/Livestock	Stage	Weather based agro advisories
Coconut	Harvesting	<ul style="list-style-type: none"> Harvest matured coconut and fallen nuts, avoid sprouting, dehusk it and bring to the market.
Poultry	All	<ul style="list-style-type: none"> Provide calcium carbonate @ 3 % mixed with feed to the poultry birds.

For details please contact with AMFU/KPS /ADO's office of
the respective area.