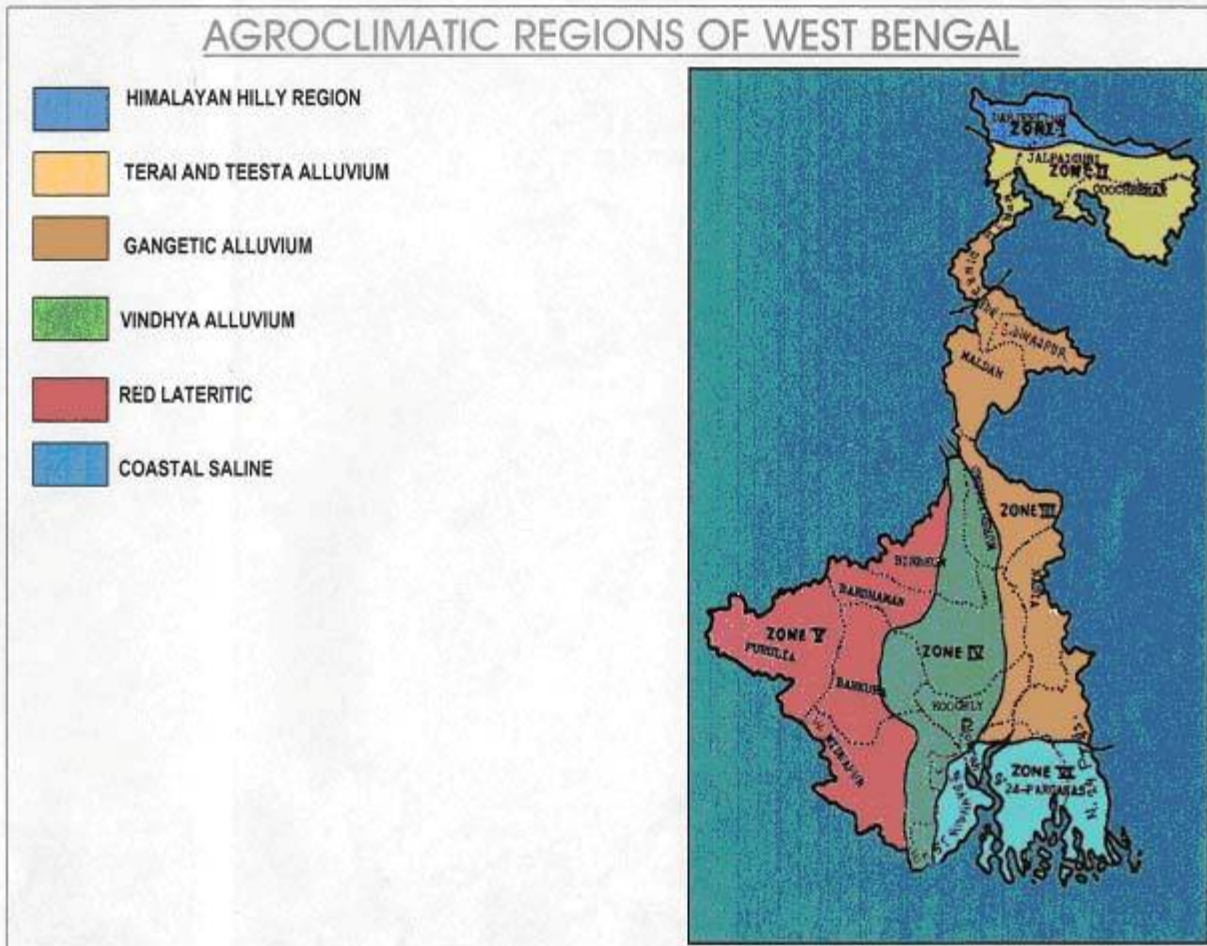


AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

For the period from 06th February '2019 to 10th February '2019



Issued on
Tuesday, 05th February '2019

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):

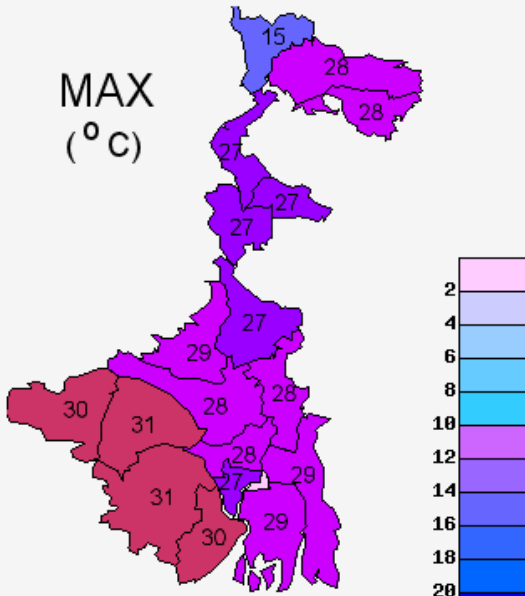
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad, Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata, Burdwan.

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

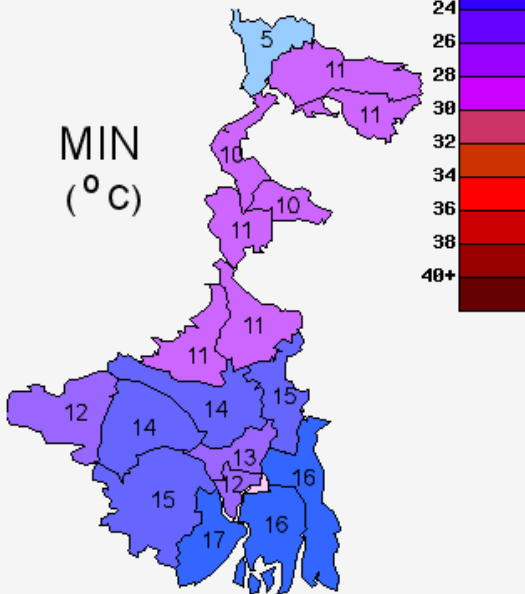
DAY 1 FORECAST

Valid up to :Wednesday 06th February 2019,0830 hrs IST

MAX
(°C)

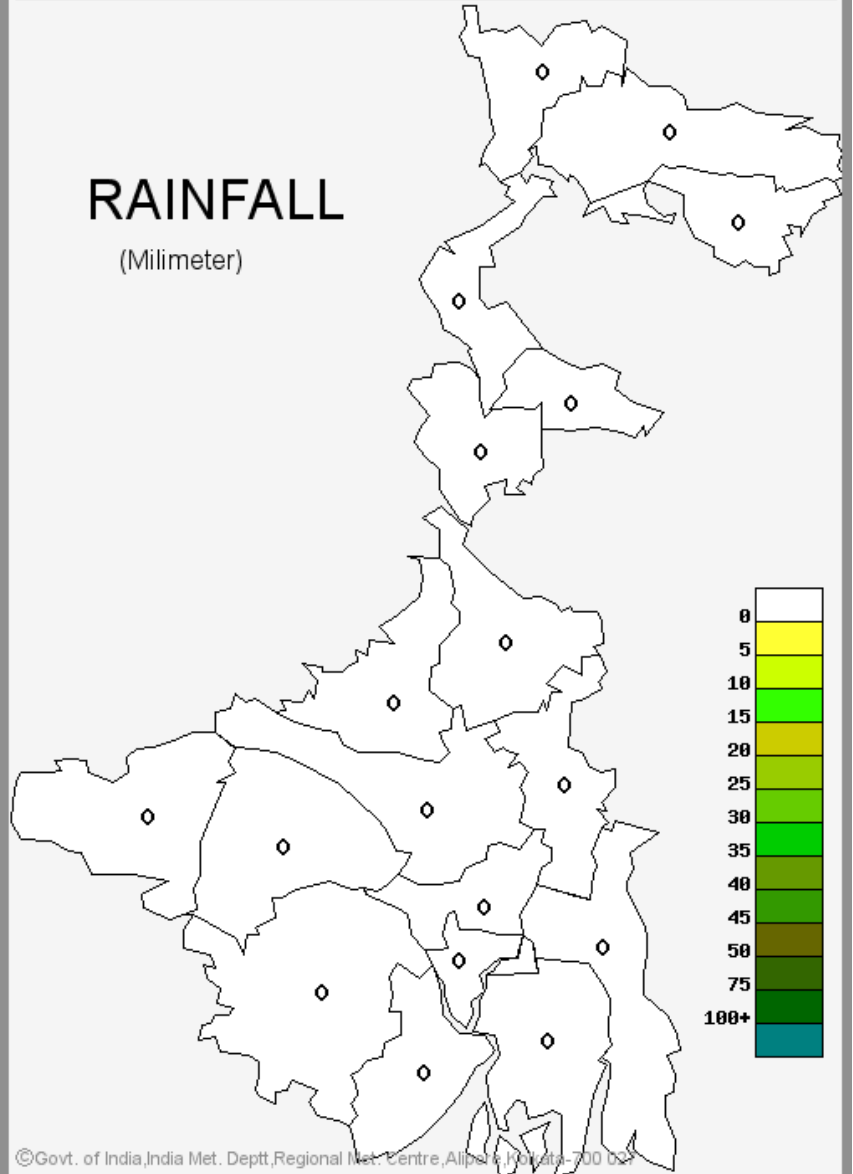


MIN
(°C)



RAINFALL

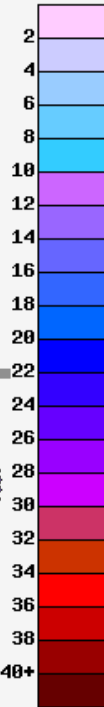
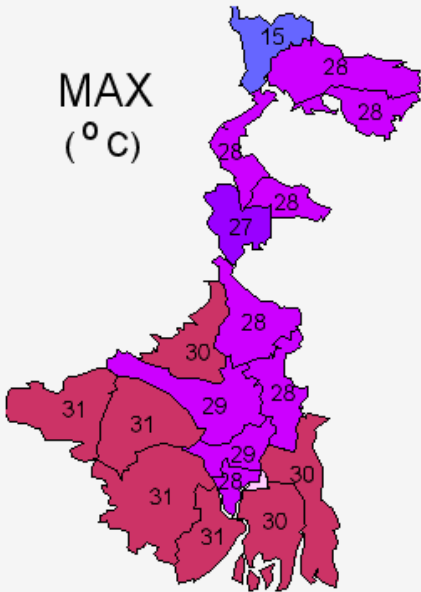
(Milimeter)



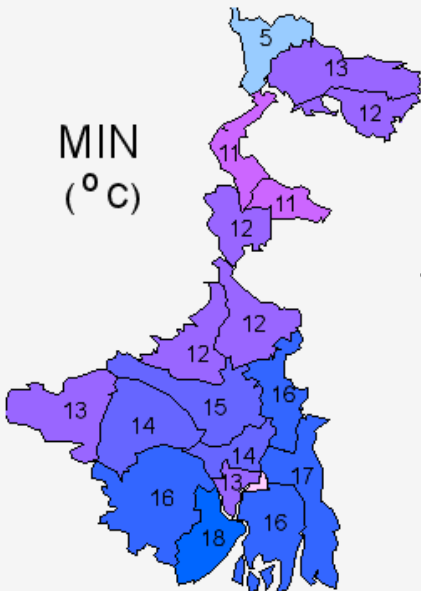
DAY 2 FORECAST

Valid up to :Thursday 07th February 2019,0830 hrs IST

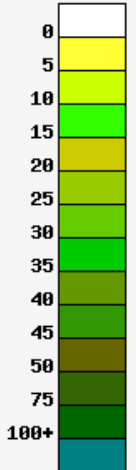
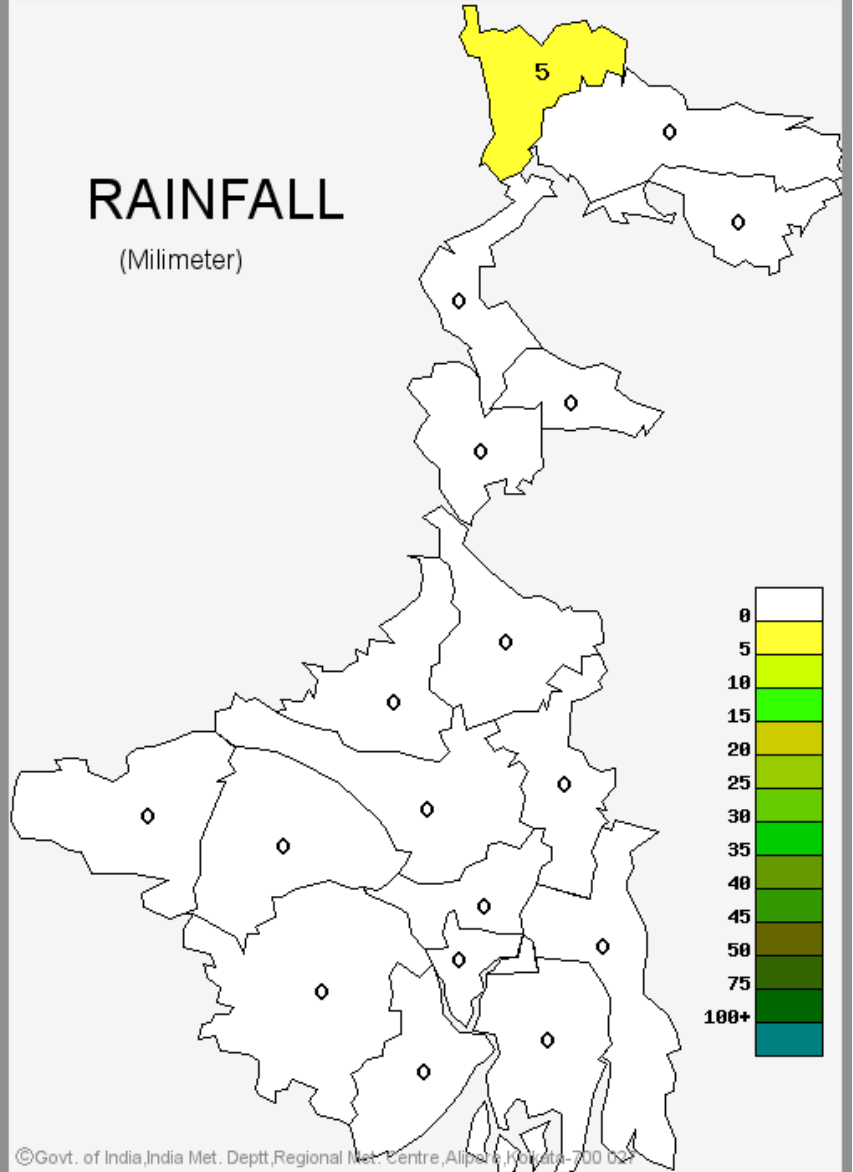
MAX
(°C)



MIN
(°C)



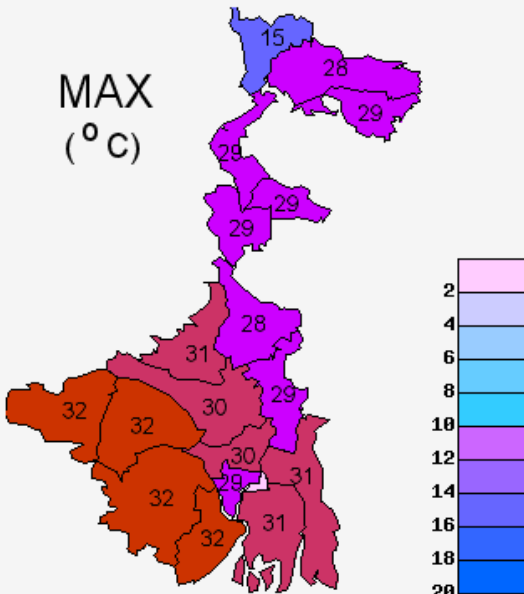
RAINFALL
(Milimeter)



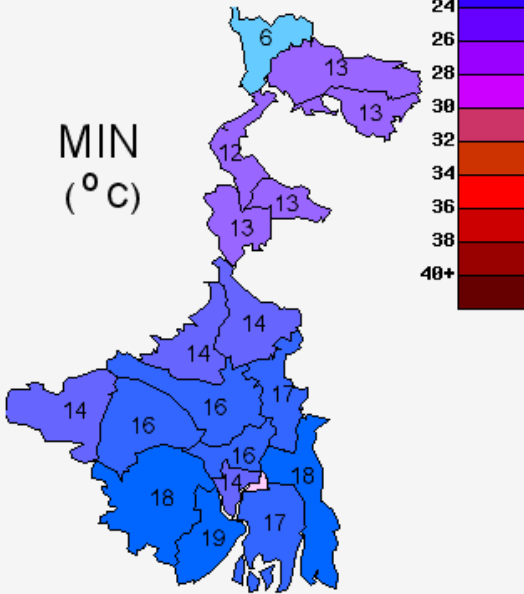
DAY 3 FORECAST

Valid up to :Friday 08th February 2019,0830 hrs IST

MAX
(°C)

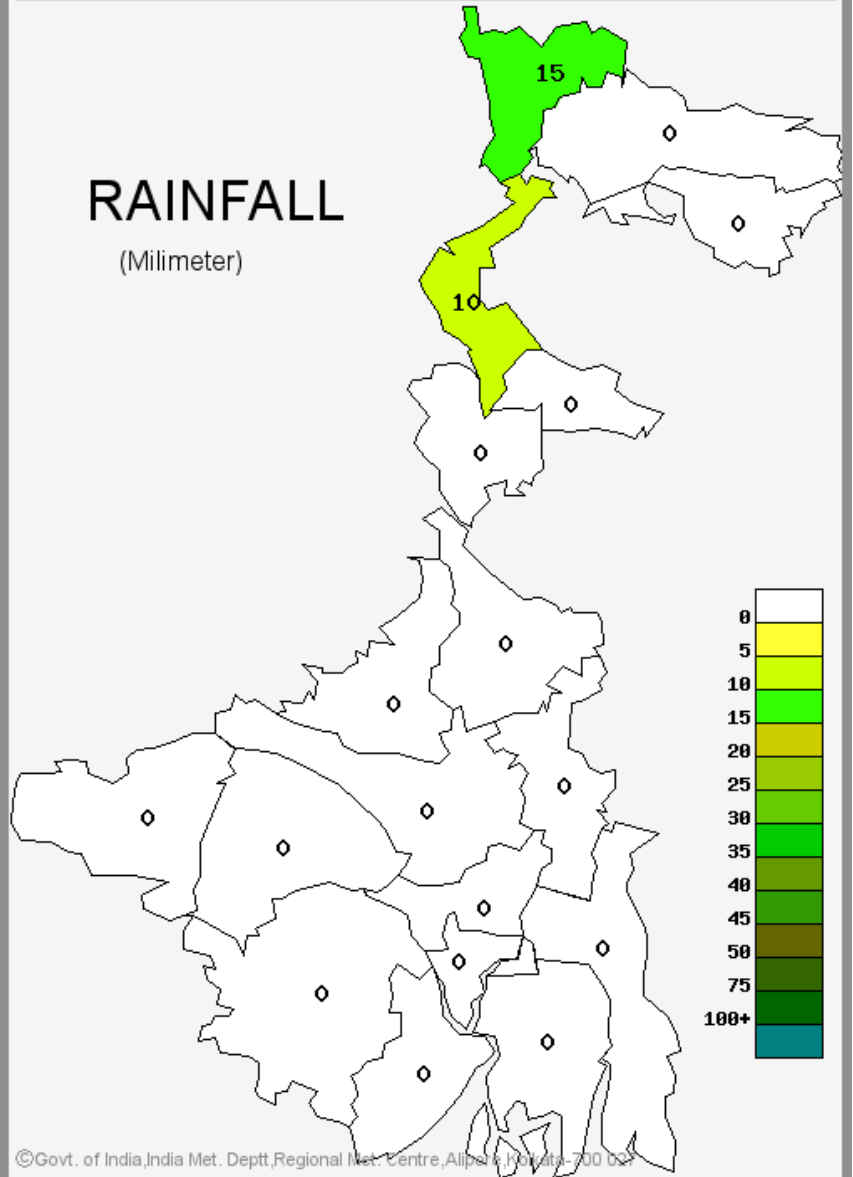


MIN
(°C)



RAINFALL

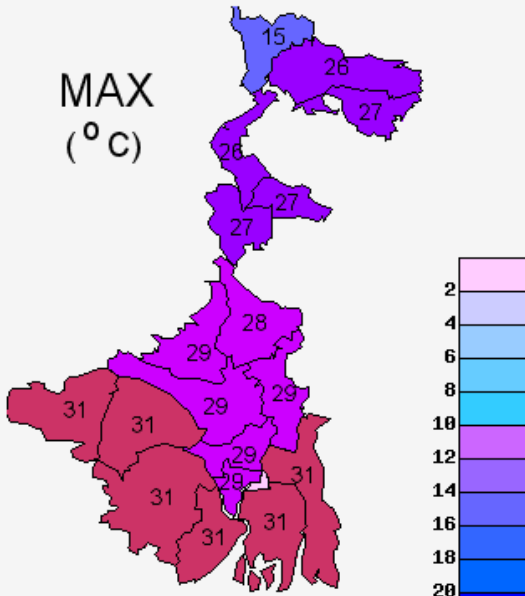
(Milimeter)



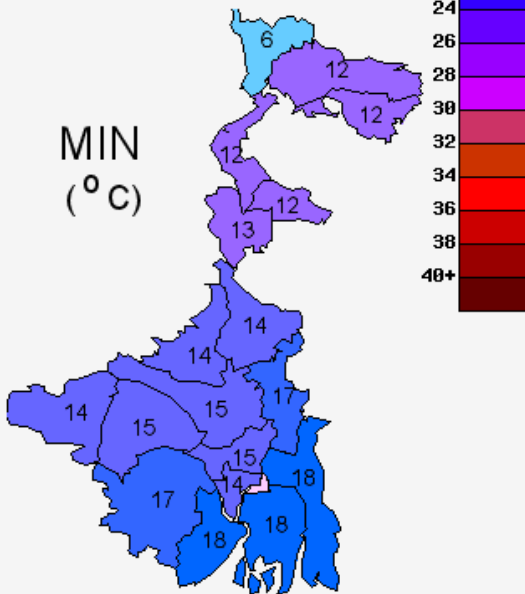
DAY 4 FORECAST

Valid up to :Saturday 09th February 2019,0830 hrs IST

MAX
(°C)

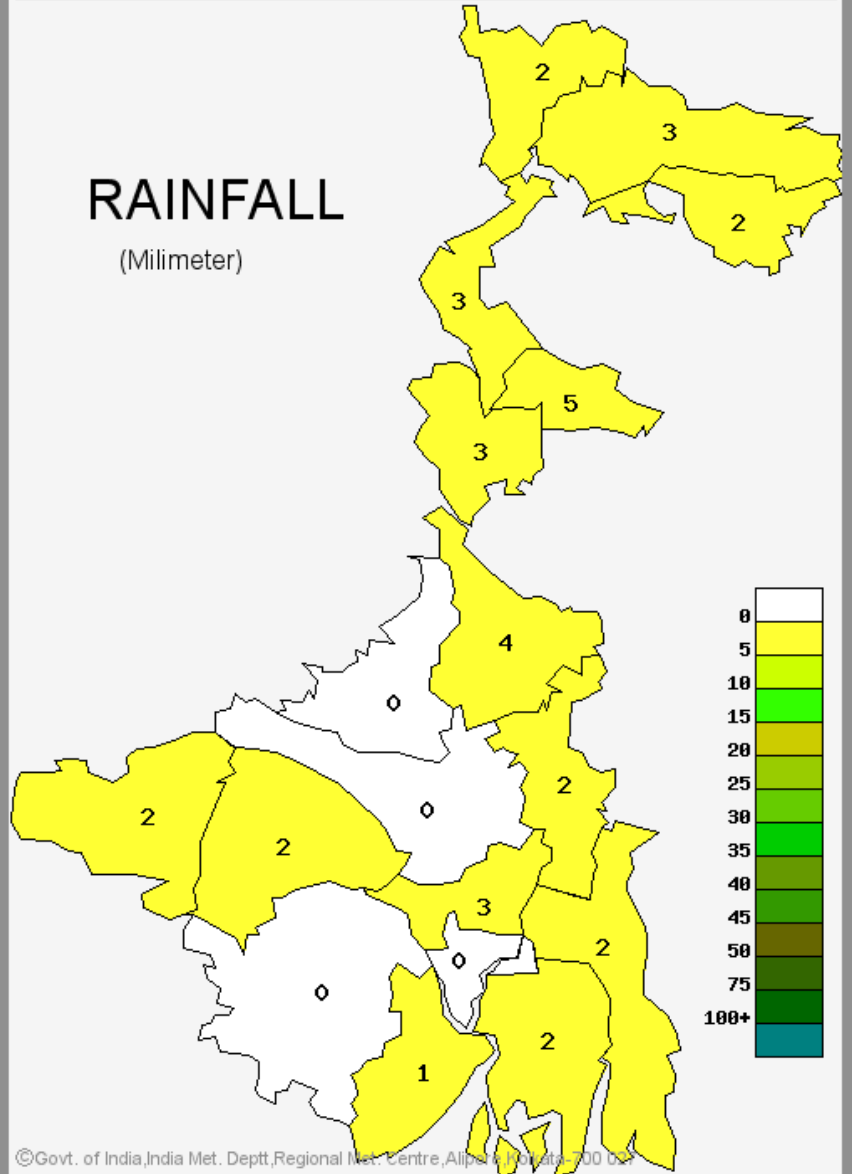


MIN
(°C)



RAINFALL

(Milimeter)

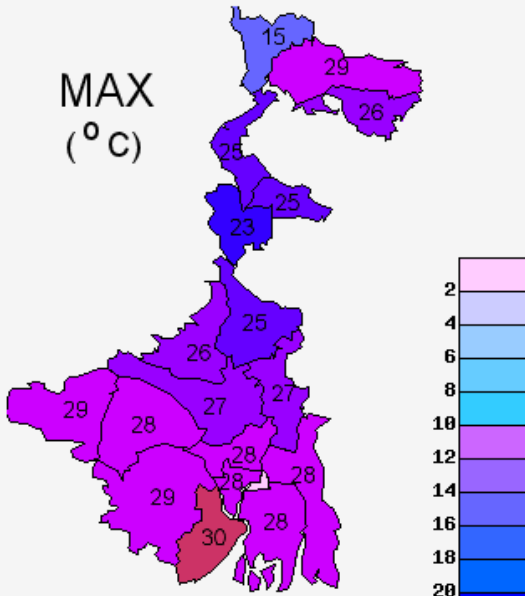


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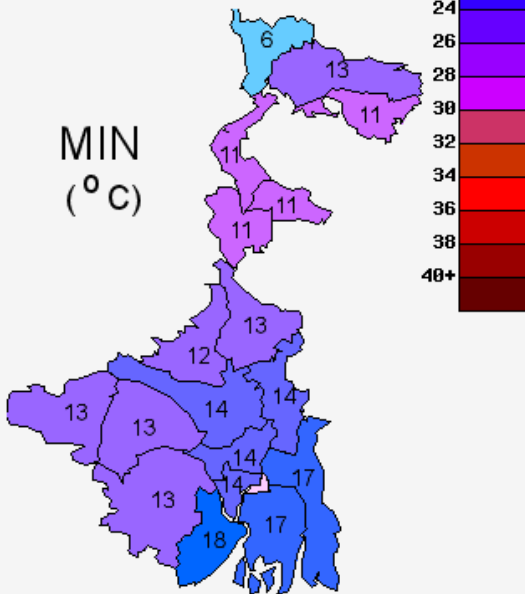
DAY 5 FORECAST

Valid up to :Sunday 10th February 2019,0830 hrs IST

MAX
(°C)

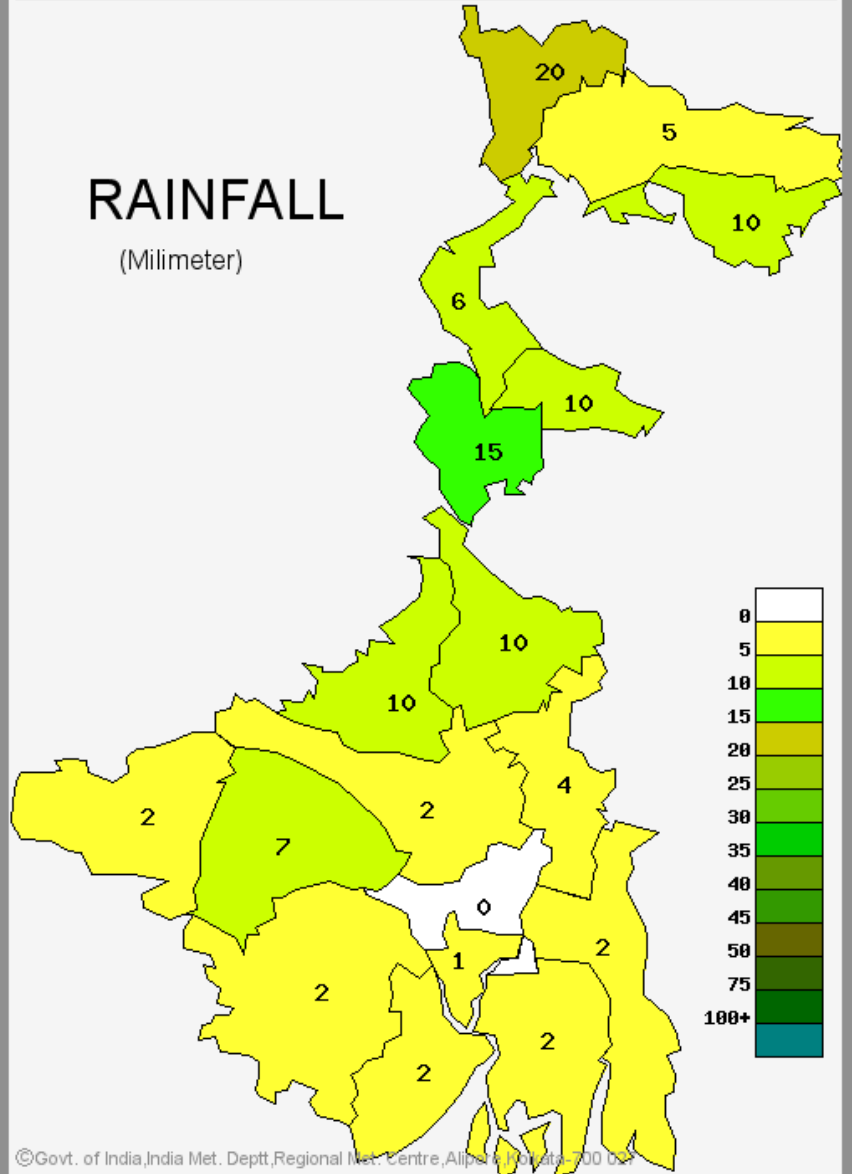


MIN
(°C)



RAINFALL

(Milimeter)



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Part I: Weather

Districtwise significant Past Weather in different agroclimatic zones for the period 01/02/19 to 04/02/19

District level Weather Forecast for different agroclimatic zones for the period 06/02/19 to 10/02/19

West Bengal

Northern Hill Zone

DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	--	17-19	3-7	45-95
Saturday	0.0			
Sunday	0.0			
Monday	--			

DARJEELING

Rainfall	Possibilities of no rainfall on 6 th February, light rainfall on 7 th February, very light rainfall on 9 th February and rest of the day's moderate rainfall has been forecasted. In coming five days total rainfall of 42.0 mm is expected.
Cloud Cover	Possibilities of partly clear sky on 6 th , 8 th February, clear sky on 7 th February, cloudy sky on 9 th February and on 10 th February mainly cloudy sky are expected.
Max. Temp.	Maximum temperature is expected to be around 15.0 to 15.0°C.
Min. Temp.	Minimum temperature is expected to be around 5.0 to 6.0°C.
Max. RH	Maximum relative humidity is expected to be around 51 - 89 %.
Min. RH	Minimum relative humidity is expected to be around 27 - 59 %.
Wind	Wind mainly will blow from southerly on 10 th February and rest of the days wind mainly will blow from south-easterly direction. In coming five days wind mainly will blow with a speed of 6.4 - 8.5 km/hr is expected.

Terai-Teesta Alluvial Zone

COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-27	9-9	60-85
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

COOCHBEHAR

➤

JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-28	9-12	50-80
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

JALPAIGURI

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NORTH DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-27	9-10	72-88
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NORTH DINAJPUR

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Gangetic Alluvial Zone**BURDWAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-28	13-13	65-85
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

BURDWAN

Clear sky to partly cloudy sky on (8th, 9th, 10th Feb.) expected during next 5 days .

No rainfall to little rainfall (9th, 10th Feb) is expected during rest 5 days and total will be 24mm.

Wind flow mainly from N,NE, W,SE direction with 2- km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 39-89% and minimum relative humidity is expected to be around 25% - 57%.

Maximum temperature is expected to be around 22°C-30°C and minimum temperature is expected to be around 12°C - 15°C .

MURSHIDABAD

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-29	10-17	50-75
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

MURSHIDABAD

Clear sky to partly cloudy sky on (9th, 10th Feb.) expected during next 5 days .

No rainfall to little rainfall (9th, 10th Feb) is expected during rest 5 days and total will be 32mm.

Wind flow mainly from NE, E, NW, S direction with 13 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 51-56% and minimum relative humidity is expected to be around 21% - 26%.

Maximum temperature is expected to be around 38°C-93°C and minimum temperature is expected to be around 25°C - 80°C .

NADIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-29	13-14	65-80
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NADIA

Clear sky to partly cloudy sky on (8th, 9th, 10th Feb.) expected during next 5 days .

No rainfall to little rainfall (9th, 10th Feb) is expected during rest 5 days and total will be 17mm.

Wind flow mainly from NW,W,SE, NE direction with 15 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 39-87% and minimum relative humidity is expected to be around 24% - 57%.

Maximum temperature is expected to be around 23°C-30°C and minimum temperature is expected to be around 13°C-15°C.

HOOGHLY

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-28	12-13	40-80
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

HOOGHLY

Clear sky to partly cloudy. sky on (8th, 9th , 10th Feb) is expected during next 5 days .

No rainfall to little rainfall (9th , 10th Feb) is expected during rest 5 days and total will be 10mm.

Wind flow mainly from NW,W,SE, NE direction with 13 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 40% - 83% and minimum relative humidity is expected to be around 24% - 47%.

Maximum temperature is expected to be around 26°C-31°C and minimum temperature is expected to be around 14°C - 16°C.

HOWRAH

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	24-29	9-10	70-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

HOWRAH

Clear sky to partly cloudy sky on (8th, 9th , 10th Feb.) is expected during next 5 days .

No rainfall to little rainfall (10th Feb) is expected during rest 5 days and total will be 4mm.

Wind flow mainly from N,W, S, NE direction with 2 - 13 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 40% - 78% and minimum relative humidity is expected to be around 24% - 46%.

Maximum temperature is expected to be around 27°C-31°C and minimum temperature is expected to be around 14°C - 17°C.

NORTH 24 PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-29	13-14	30-70
Saturday	0.0			
Sunday	0.0			
Monday	0.1			

NORTH 24 PGS

Clear sky to partly cloudy sky on (8th, 9th Feb.) is expected during next 5 days .

No rainfall to little rainfall (10th Feb) is expected during rest 5 days and total will be 5 mm.

Wind flow mainly from N, NE, SW & SE direction with 13 - 14 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 40% - 79% and minimum relative humidity is expected to be around 21% - 48%.

Maximum temperature is expected to be around 26°C-30°C and minimum temperature is expected to be around 14°C-16°C .

Vindhyan Alluvial Zone

DAKSHIN DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-26	9-12	55-75
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

DAKSHIN DINAJPUR

- Possibility of mainly clear on 6th & 8th February and clear sky on 7th February, Overcast sky on 9th February and mainly cloudy on 10th February.
- There seems to be possibility of no rainfall on 6th to 8th February, light rain on 9th & 10th February.
- Wind from Westerly, North-easterly, Easterly and North-westerly direction with an average speed of 5.8-12.9 Km/hr. is expected.
- Maximum temperature is expected to be around 25.0-29.0⁰C and minimum temperature is expected to be 10.0-13.0⁰C.
- Maximum and minimum relative humidity is expected to be 48-87% and 21-64% respectively.
-

MALDA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-28	14-14	35-80
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

MALDA

- Possibility of mainly clear on 6th to 8th February, overcast sky on 9th February and mainly cloudy on 10th February.
- There seems to be possibility of no rainfall on 6th to 8th February, light rain on 9th & 10th February.
- Wind from North-westerly, North-easterly, Easterly & South-westerly direction with an average speed of 6.5-13.6 Km/hr. is expected.
- Maximum temperature is expected to be around 23.0-29.0⁰C and minimum temperature is expected to be 11.0-13.0⁰C.
- Maximum and minimum relative humidity is expected to be 45-88% and 20-63% respectively.

Coastal Saline Zone**PURBA MIDNAPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	25-30	12-15	60-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

PURBA MIDNAPUR

- Light rainfall is predicted on 9th and 10th February and no rain fall is predicted in the remaining days.
- Sky will be partly cloudy on 9th and 10th February and clear in the remaining days.
- Wind speed will be 8.7-11.3 km/sec. and the predominant wind direction will be North-easterly to South-westerly.
- Maximum temperature is expected to be around 28.0⁰C -33.0⁰C and minimum temperature is likely to be around 14.0⁰C- 19.0⁰C.
- Maximum and minimum relative humidity will be in the range of 43% -81% and 23% -42%.
-

SOUTH 24-PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-31	12-15	30-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

SOUTH 24-PGS

- No rain fall is predicted in next five days.
- Sky will be clear in next five days.
- Wind speed will be 6.8-13.4km/sec. and the predominant wind direction will be North-easterly to Northerly.
- Maximum temperature is expected to be around 28.0°C -32.0°C and minimum temperature is likely to be around 15.0°C-18.0°C.
- Maximum and minimum relative humidity will be in the range of 37% -76% and 21% -43%.

Undulating Red and Laterite Zone**PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-31	11-14	25-75
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

PASCHIM MIDNAPORE

- Very light rainfall on Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southeasterly. Wind with a speed of 7.9-10.6 km per hour will blow for coming five days.
- Relative humidity maximum will be 43-86 % and minimum will be 21-40%
- Maximum temperature will be 29-31°C and minimum will be 13-18°C.

BANKURA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-31	11-14	25-75
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

BANKURA

- Very light rainfall on Saturday and Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southeasterly. Wind with a speed of 5.8-10.4 km per hour will blow for coming five days.
- Relative humidity maximum will be 42-90 % and minimum will be 19-51%
- Maximum temperature will be 28-32°C and minimum will be 13-16°C.

PURULIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-28	9-11	30-70
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

PURULIA

- Very light rainfall on Saturday and Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southeasterly. Wind with a speed of 6.6-10.4 km per hour will blow for coming five days.
- Relative humidity maximum will be 45-83 % and minimum will be 20-45%
- Maximum temperature will be 29-32°C and minimum will be 12-14°C.

BIRBHUM

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-29	11-14	35-80
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

BIRBHUM

- Light rainfall on Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southeasterly. Wind with a speed of 6.6-12.1 km per hour will blow for coming five days.
- Relative humidity maximum will be 39-89 % and minimum will be 17-61%
- Maximum temperature will be 26-31°C and minimum will be 11-14°C.

Andaman & Nicobar Islands

ANDAMAN

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-33	24-26	31-95
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NORTH MIDDLE ANDAMAN

SOUTH ANDAMAN.



NICOBAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-30	21-24	62-85
Saturday	4.5			
Sunday	3.4			
Monday	0.0			

NICOBAR



Part II: Agroclimatic zonewise Agricultural/Agro meteorological Advisories

West Bengal

Northern Hill Zone

MAJOR CROPS	STAGE	PEST & DISEASES	ADVISORY
General	-	-	In coming five days no rainfall on 6 th February, light rainfall on 7 th February, very light rainfall on 9 th February and rest of the day's moderate rainfall has been forecasted so, proper drainage channel should be maintained.
Large cardamom	Vegetative Stage	-	Weeding along with cleaning of dry shoot and dry leaves followed by mulching to be done.

Mandarin Orange	Vegetative stage	-	Application of manuring @ 30-40 kg FYM/ Plant and fertilizer (N:P:K @ 300:250:300 gm/tree) should be completed and mulching with locally available resources should be done.
Cole Crop (Cauliflower, Cabbage, etc)	Harvesting stage	-	Mature crop should be harvested.
Potato	Tuberization Stage	-	Weeding should be done, irrigation is not recommended as 42.0 mm rainfall has been forecasted for coming five days.
Garden Pea	Flowering and Pod maturity stage	-	Weeding should be done and mature pods should be harvested.
Mustard	Flowering and Siliqua formation stage	-	Irrigation is not recommended as 42.0 mm rainfall has been forecasted for coming five days.
Animal Husbandry (Pig)	-	-	Piglets are highly susceptible to pneumonia in winter months. The symptoms are high fever (104-105°F), anorexia, difficulty in breathing etc. For treatment give antibiotics, paracetamol and vitamin after consultation with veterinary doctors.

Terai-Teesta Alluvial Zone

Advisory			
GENERAL			
Agriculture and Horticulture			
Main Crops	Stage	Pest & Diseases	Advisory
Animal Husbandry			
Name of Animal	Disease	Control measures	

Gangetic Alluvial Zone

Crop	Stage	Advisory
Boro	Seedling	Start nursery management of Boro rice. Apply water to the nursery at evening and drain out at morning as night temperature is low. Spray Tricyclozole @ 0.5g/litre of water and after one day spray Cheleted Zinc @ 1g/litre of water if seedlings turn to reddish in colour.
Mustard	Flowerin g/Pod formation stage	Be careful for aphid infestation. Immediately spray Imidachloprid (Confidor) @ 3ml/10 litre of water. Intercultural operations like weeding and rouging should be done. If required, light irrigation may be given as there is no rainfall forecast.
Gram and Pea	Flowerin g/Pod formation 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)/litre of water.

Lentil	Vegetative/Flowering stage	As temperature is lowering spray Carbendazim 50% @ 1g/litre of water as protective measure. Intercultural operations mainly weeding should be done.
Cabbage, Cauliflower, Broccoli, Tomato, Chilli, French Bean, Pointed Gourd, Cucumber, Brinjal	Fruit Setting/ Vegetative	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. For the management of fruit and shoot borer one application of Coragen @ 4 ml/tank. Cleanliness to be maintained. Apply Thiomethoxam 0.3 SG @1g/3lit. of water to manage sucking pests infestation. For nematode problem apply Carbofuron 3G @4.5kg /Bigha followed by a light irrigation or Nimitz 480 EC@ 4-8 lit/ha could be applied against root knot nematode. For white fly and jassid, apply Acetamiprid 20% SP@1g/3lit. or Thiomithoxam 0.3 SG 1g/3lit. of water. Plants with small sized leaves and bunchy appearance plants to be uprooted and sprayed with Imidachloprid @0.5ml/lit of Water. For control of bacterial wilt in solanaceous vegetable stop irrigation immediately, uproot the plant carefully and apply bleaching powder or fresh cow dung mixture around the infected plant to control the spreading of disease in the field. For management of fruit borer in the tomato apply Indoxacarb 1ml/lit. of water insecticide mixture at 7 days interval thrice.
Potato	Vegetative / Tuber Initiation	Present weather is not congenial for disease and pest infestation. Those who have sown crop in late winter, be aware of aphid and blight infestation. For pest control apply Imidachlorprid @ 3ml/ 10 litres of water. If required then repeat the application of Imidachlorprid after 10 days. To control blight apply Mancozeb 2.5 g / lt. of water. If infestation is more, apply cymoxanil-mancozeb (Curzate) (2.5 g/lt) or Dimethomorph (1 g) + Mancozeb (2g)/lt. (Moxymate) of water at 10 days interval.
Rabi Onion & Garlic	Vegetative	Intercultural operations like light spading and weeding should be done. Propiconazole (Tilt) @ 1ml/litre with a sticker 4-5 times (at 7 days interval) starting from 15 days after transplanting to check purple blotch disease
Flowers like Marigold, Chrysanthemum & Gladiolus	Flowering	Intercultural operations like light spading and weeding should be done.
Mango Orchard	General	i) Spray either Imidachloprid (Confidor) @ 3ml/10 litres of water or Acetamiprid (Asataf) @ 1 ml/litre of water for controlling mango hopper ii) When inflorescence attain 4 inches (emergence of axis) or just before flowering apply Tridemethon (Beledan) @ 1 g/litre of water with sticker (Tiptop/diamond) iii) Immediately after fruit setting apply Bavistin @ 1 g/litre – 3 sprays at 15 days interval iv) Irrigation should be done in all orchards. v) Apply FYM @ 10-12 kg and Sufala / DAP @ 1 kg per plant.
Poultry	General	Care for day old chicks with proper brooding, ventilation and management may reduce morbidity and mortality rate Anti-stress medication is recommended to save the poultry birds against cold weather.

Undulating Red and Laterite Zone

Crop	Stage	Problem	Advisory
Boro rice	Tillering	-- Weeds	Keep the bunds clean and maintain the water level upto 2 cm in the field. If weeds are noticed in the field, apply Butachlor @1.25-2 kg/ha at 3-4 days after transplanting.
Wheat	Late jointing Flowering	Rust and Blight disease --	The weather condition may favor rust and blight diseases. Spray Mancozeb @ 2.5g/lit of water. Give irrigation to the crop and avoid the unnecessary chemical applications at this stage.
Potato	Tuber bulking	Late blight	Give light irrigation to the crop. Apply Mancozeb @ 2.5g/lit of water.
Mustard	Pod development	Aphids	If aphids are noticed, spray Imidacloprid @1ml/1.5lit of water.
		Fishery	Fishery Management: 1. Apply Lime (Calcium Carb 2. Do health check-up of fish by periodical netting 3. Diseased fish should be isolated from main stock a
		General	As per NDVI map for the district the crop coverage is

Andaman & Nicobar Islands

For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
		•
		•
		•

For South Andaman

Crop/Livestock	Stage	Weather based agro advisories
		•
		•
		•

For Nicobar

Crop/Livestock	Stage	Weather based agro advisories
		•
		•

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