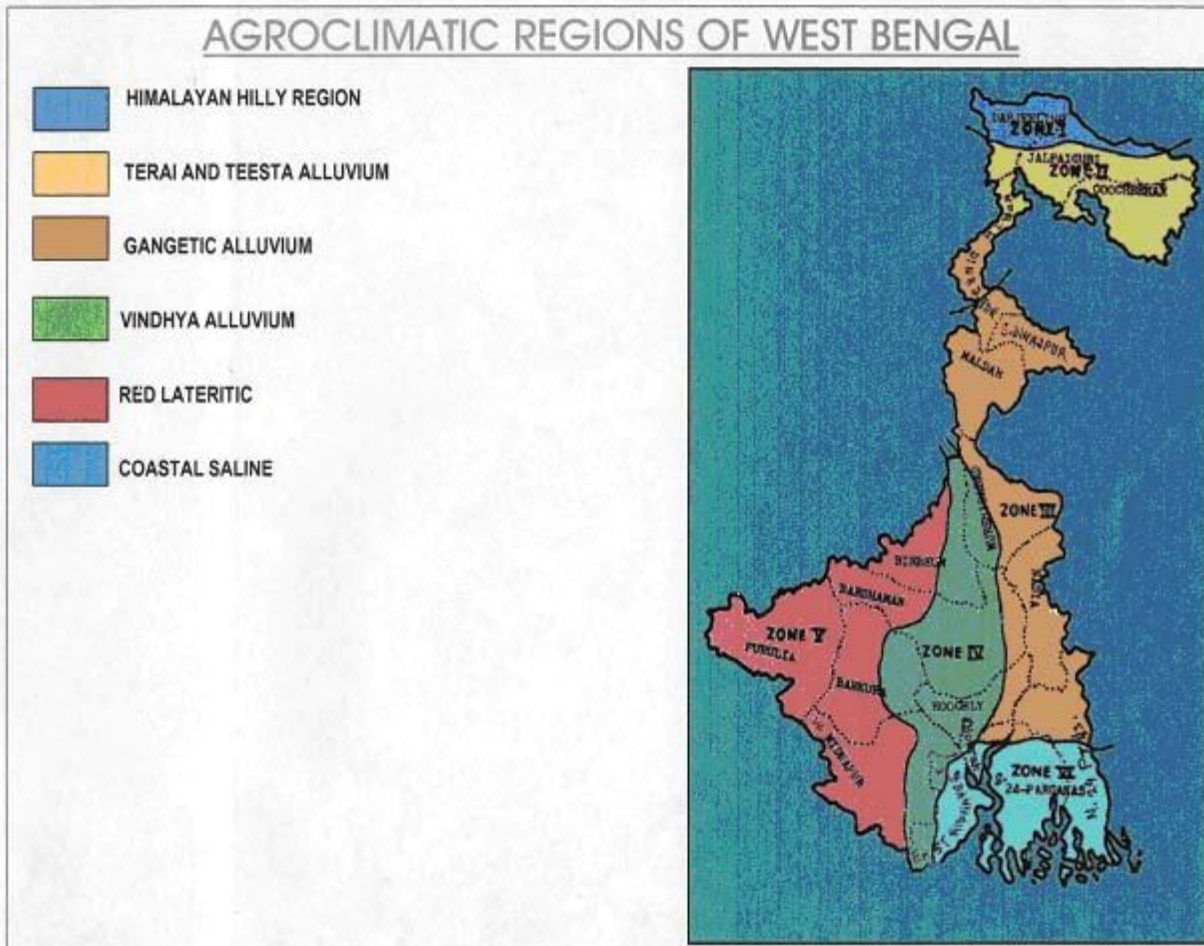


AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

For the period from 09th March to 13th March '2019



Issued on
Friday, 08th March '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):

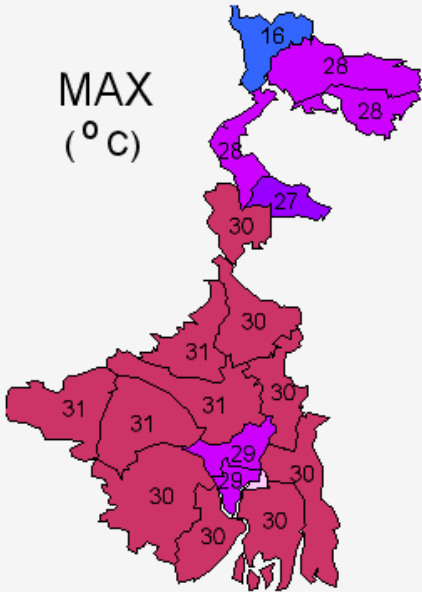
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad , Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata , Burdwan.

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

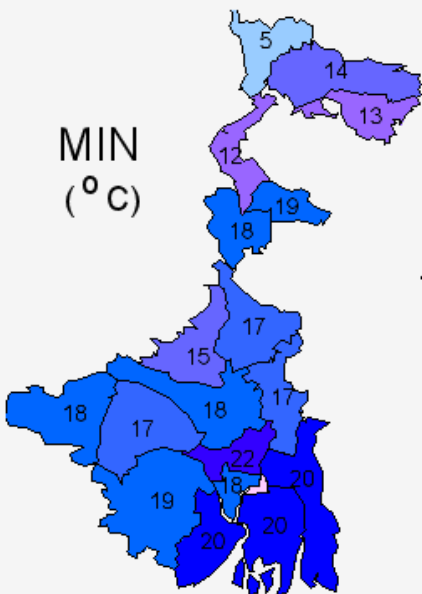
DAY 1 FORECAST

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

MAX
(°C)

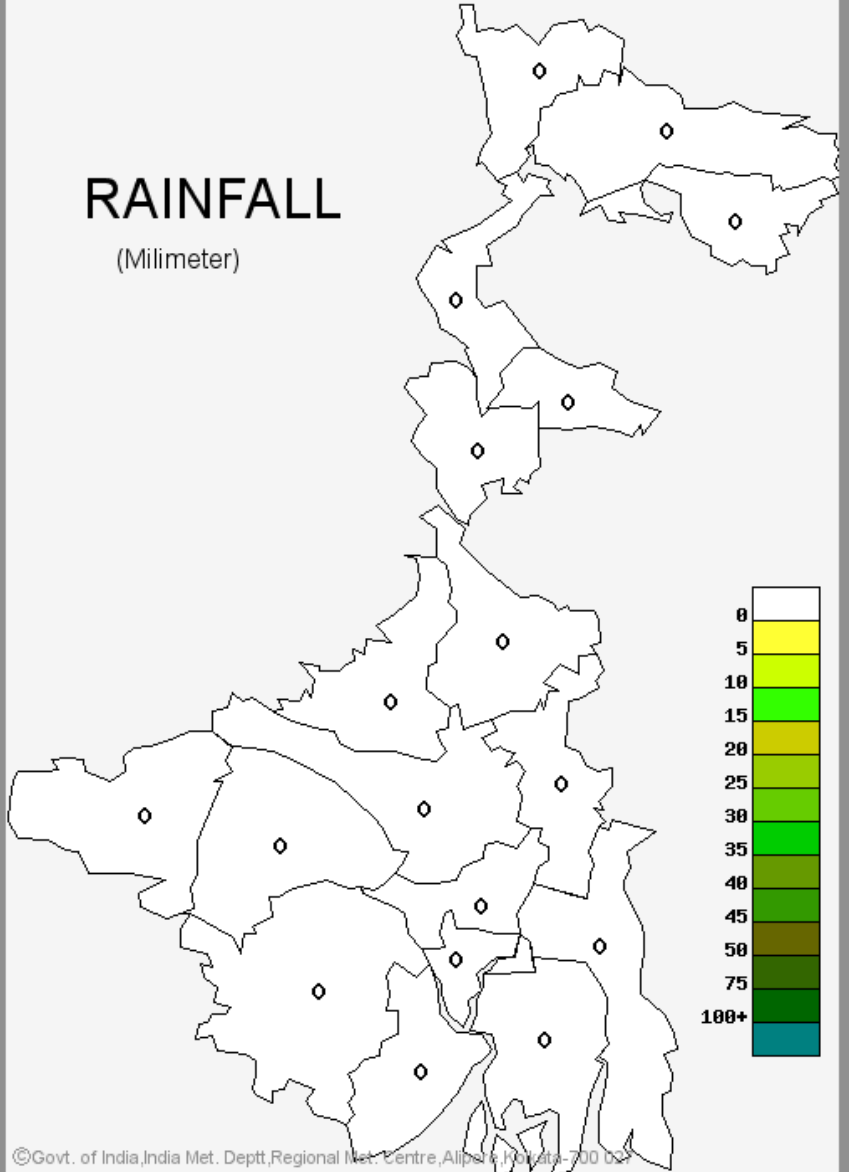


MIN
(°C)



RAINFALL

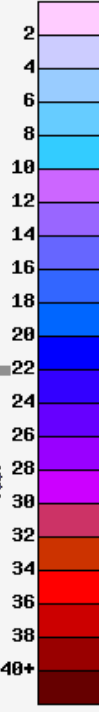
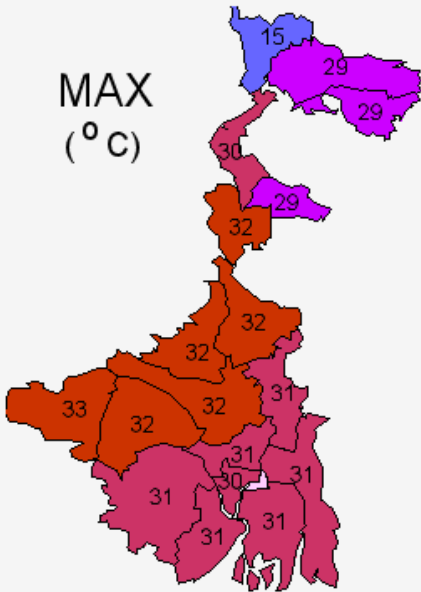
(Millimeter)



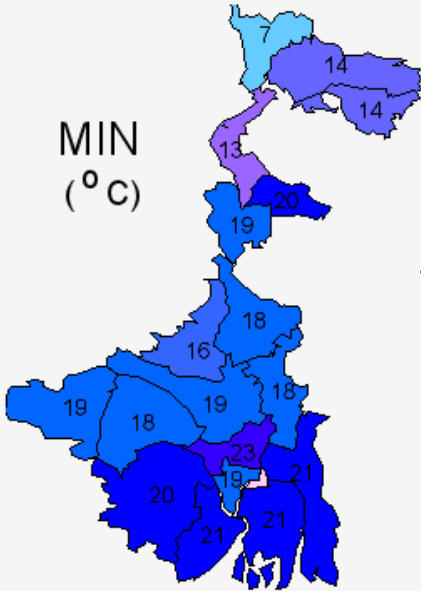
DAY 2 FORECAST

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

MAX
(°C)

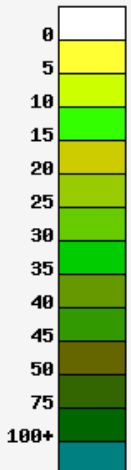
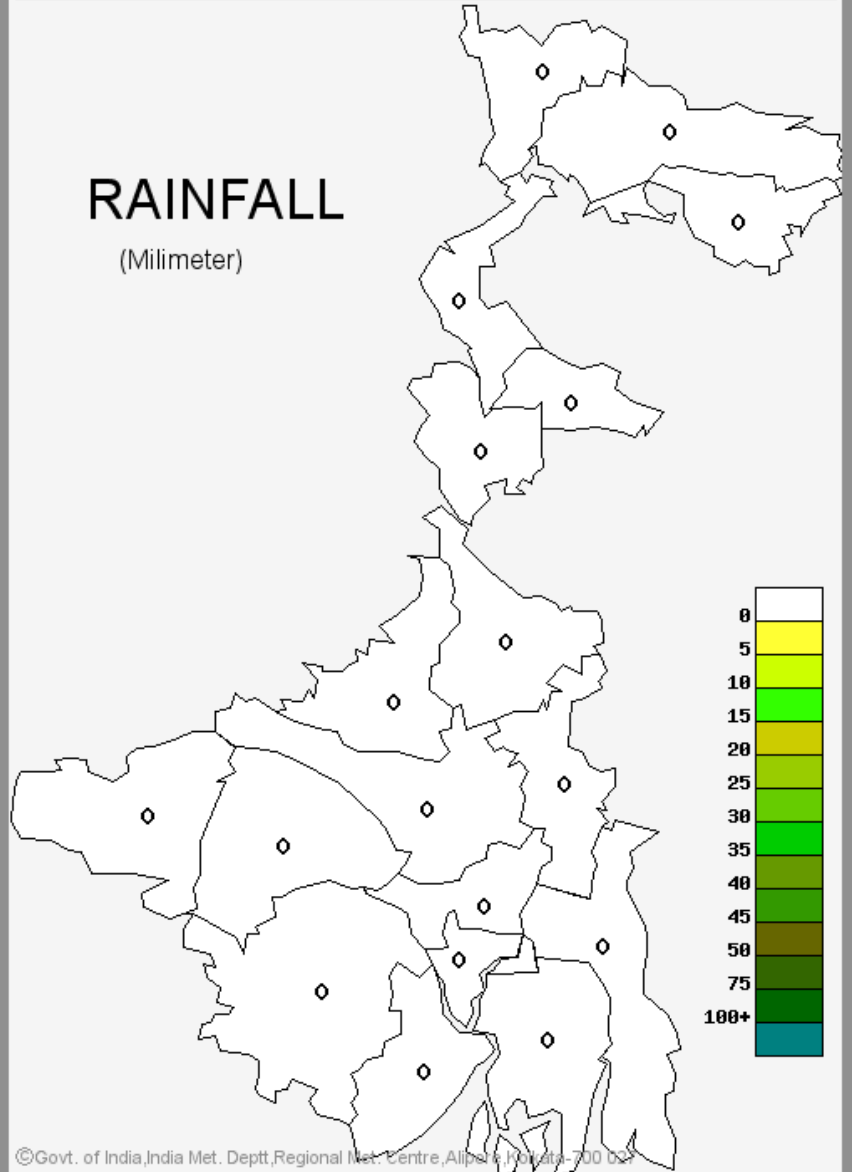


MIN
(°C)



RAINFALL

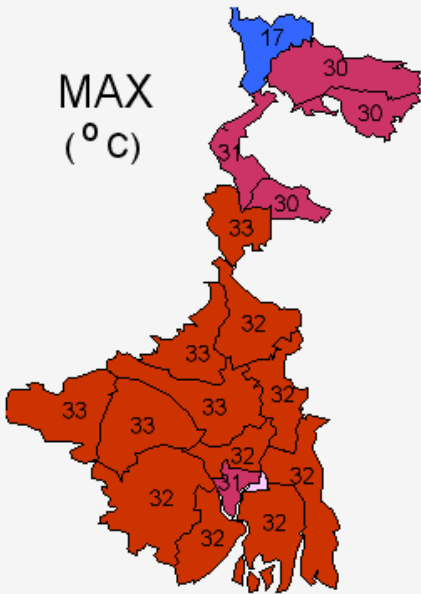
(Milimeter)



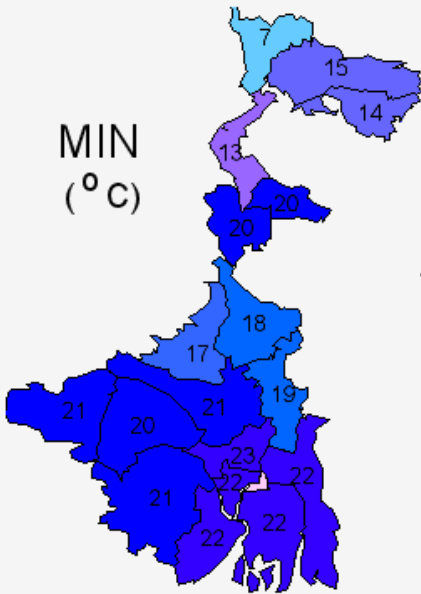
DAY 3 FORECAST

Valid up to :Monday 11th March 2019,0830 hrs IST

MAX
(°C)

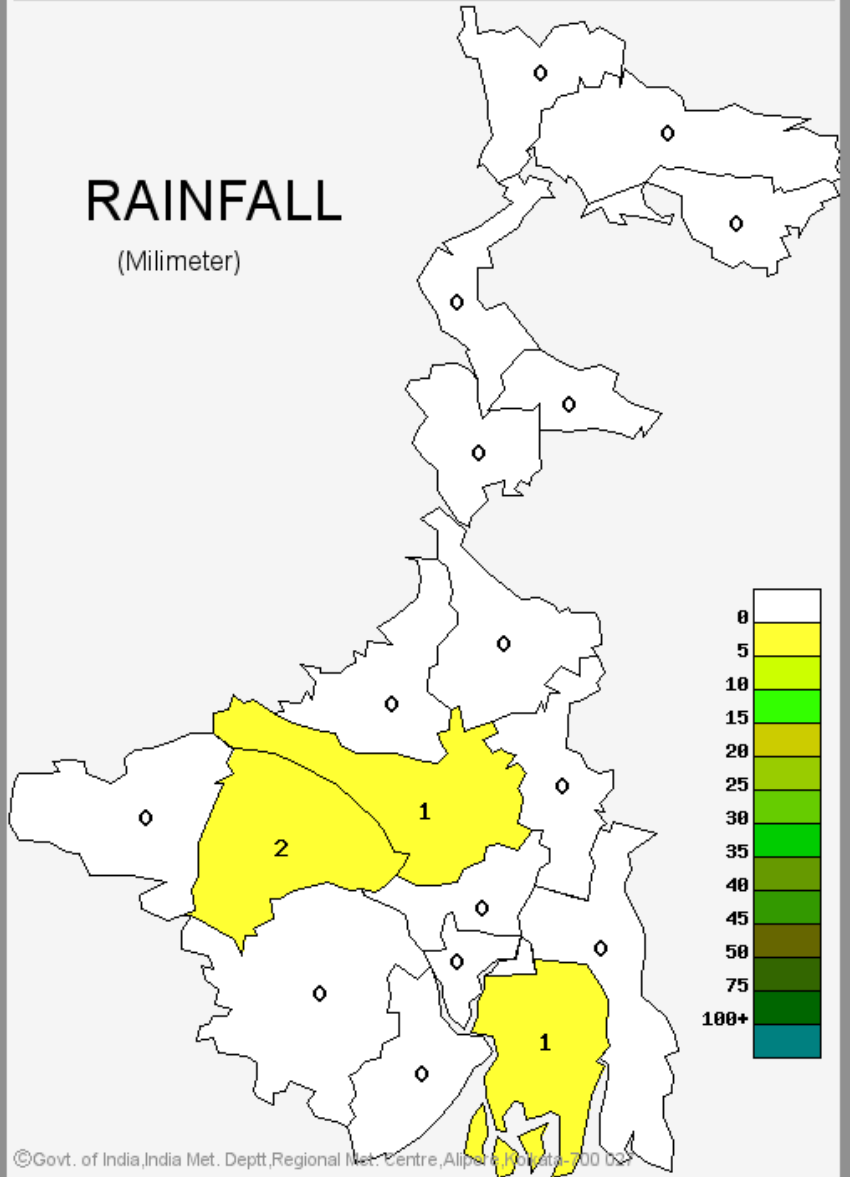


MIN
(°C)



RAINFALL

(Milimeter)

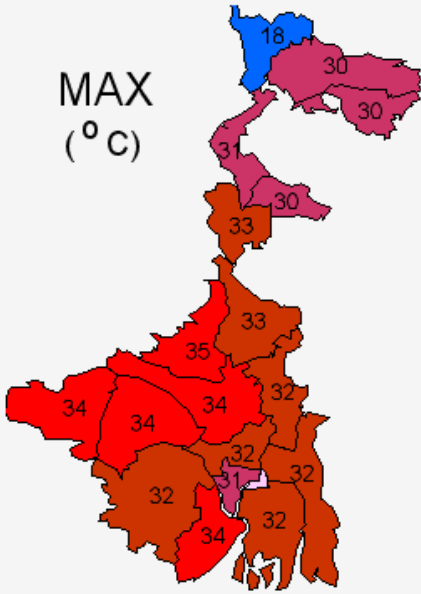


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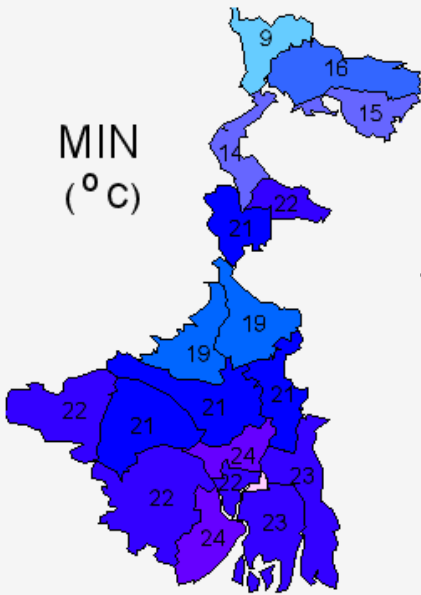
DAY 4 FORECAST

Valid up to :Tuesday 12th March 2019,0830 hrs IST

MAX
(°C)

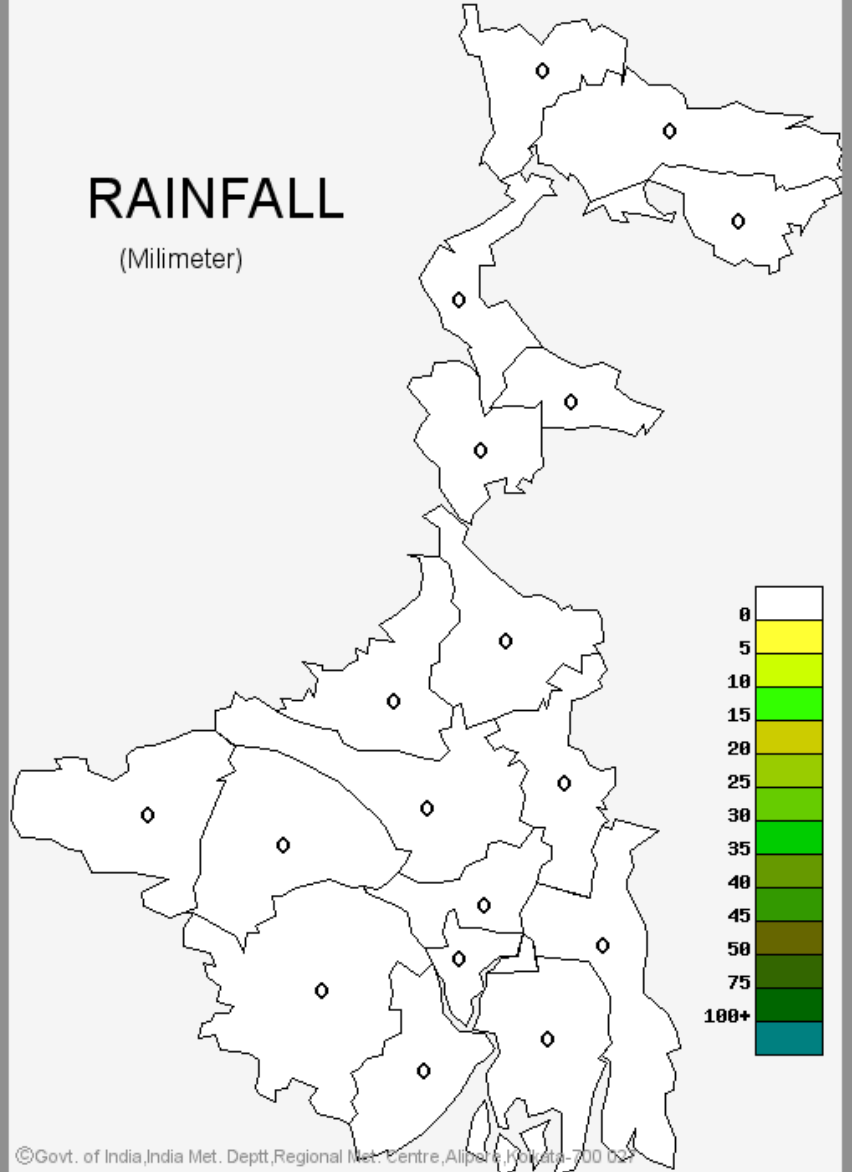


MIN
(°C)



RAINFALL

(Milimeter)



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Part I: Weather

Districtwise significant Past Weather in different agroclimatic zones for the period 05/03/19 to 07/03/19

District level Weather Forecast for different agroclimatic zones for the period 09/03/19 to 13/03/19

West Bengal

Northern Hill Zone

DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	15-19	5-8	84-99
Wednesday	0.0			
Thursday	--			

DARJEELING

Rainfall	Possibilities of no rainfall have been forecasted. In coming five days total rainfall of 0.0 mm is expected.
Cloud Cover	Possibilities of clear sky are expected.
Max. Temp.	Maximum temperature is expected to be around 15.0 to 18.0°C.
Min. Temp.	Minimum temperature is expected to be around 5.0 to 10.0°C.
Max. RH	Maximum relative humidity is expected to be around 34 -42 %.
Min. RH	Minimum relative humidity is expected to be around 20 - 27 %.
Wind	Wind mainly will blow from south-easterly on 11 th 12 th March, and rest of the day's wind mainly will blow from easterly direction. In coming five days wind mainly will blow with a speed of 8.9-10.1 km/hr is expected.

Terai-Teesta Alluvial Zone

COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-28	12-15	39-97
Wednesday	41.8			
Thursday	0.0			

COOCHBEHAR

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JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-28	13-15	40-92
Wednesday	4.6			
Thursday	0.0			

JALPAIGURI

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NORTH DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-28	10-11	70-85
Wednesday	0.0			
Thursday	0.0			

NORTH DINAJPUR

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Gangetic Alluvial Zone

BURDWAN

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	13.0	30-31	18-21	68-84
Wednesday	2.0			
Thursday	0.0			

BURDWAN

. Clear sky is expected during next 5 days .
 No rainfall is expected during rest 5 days .
 Wind flow mainly from NW, E, SW, S direction with 7.0- 9.3 km/hr. speed during next 5 days is expected.
 Maximum relative humidity is expected to be around 37% - 69% and minimum relative humidity is expected to be around 18% - 24%.
 Maximum temperature is expected to be around 30.0°C – 38.0°C and minimum temperature is expected to be around 17.0°C - 23.0°C.

MURSHIDABAD

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	6.0	29-30	15-16	55-94
Wednesday	0.0			
Thursday	0.0			

MURSHIDABAD

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NADIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	29-30	15-16	34-96
Wednesday	0.0			
Thursday	0.0			

NADIA

Clear sky is expected during next 5 days .
 No rainfall is expected during rest 5 days.
 Wind flow mainly from NE,N, NW, SW & SE direction with 8.1- 11.0 km/hr. speed during next 5 days is expected.
 Maximum relative humidity is expected to be around 43% - 72% and minimum relative humidity is expected to be around 17% - 23%.
 Maximum temperature is expected to be around 30.0°C - 37.0°C and minimum temperature is expected to be around 17.0°C - 23.0°C.

HOOGLY

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	5.4	29-29	20-21	43-96
Wednesday	0.0			
Thursday	0.0			

HOOGLY

Clear sky is expected during next 5 days .
 No rainfall is expected during rest 5 days.
 Wind flow mainly from SE, W, SW & S direction with 7.5- 12.4 km/hr. speed during next 5 days is expected.
 Maximum relative humidity is expected to be around 59% - 95% and minimum relative humidity is expected to be around 20% - 32%.
 Maximum temperature is expected to be around 28.0°C – 35.0°C and minimum temperature is expected to be around 17.0°C - 24.0°C.

HOWRAH

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	1.4	28-30	16-17	76-87
Wednesday	0.1			
Thursday	0.0			

HOWRAH

Clear sky is expected during next 5 days .
 No rainfall is expected during rest 5 days
 Wind flow mainly from W & SW direction with 9.8- 14.5 km/hr. speed during next 5 days is expected.
 Maximum relative humidity is expected to be around 70% - 96% and minimum relative humidity is expected to be around 18% - 37%.
 Maximum temperature is expected to be around 28.0°C – 35.0°C and minimum temperature is expected to be around 18°C -23°C.

NORTH 24 PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	45.8	28-29	20-21	45-88
Wednesday	0.0			
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 W, SW direction with 9.8- 15.4 km/hr. speed during next 5 days is expected.
 Maximum relative humidity is expected to be around 65% - 92% and minimum relative humidity is expected to be around 22% - 41%.
 Maximum temperature is expected to be around 30.0°C – 36.0°C and minimum temperature is expected to be around 20.0°C - 24.0°C.

Vindhyan Alluvial Zone**DAKSHIN DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-28	16-18	34-87
Wednesday	0.0			
Thursday	0.0			

DAKSHIN DINAJPUR

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MALDA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	29-30	18-19	40-84
Wednesday	0.0			
Thursday	0.0			

MALDA

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Coastal Saline Zone**PURBA MIDNAPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	3.7	29-30	17-25	43-93
Wednesday	0.0			
Thursday	0.0			

PURBA MIDNAPUR

SOUTH 24-PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	2.6	28-30	20-23	41-90
Wednesday	7.3			
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	67.0	27-28	19-21	59-96
Wednesday	0.0			
Thursday	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 Southwesterly. Wind with a speed of 8.6-11.6 km per hour will blow for coming five days.
- Relative humidity maximum will be 57-85 % and minimum will be 15-28 %
- Maximum temperature will be 30-34°C and minimum will be 19-24°C.

BANKURA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.1	28-29	17-21	35-83
Wednesday	0.8			
Thursday	0.0			

BANKURA

- Very light rainfall on Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southwesterly. Wind with a speed of 7.1-9.4 km per hour will blow for coming five days.
- Relative humidity maximum will be 37-68 % and minimum will be 16-22%
- Maximum temperature will be 31-35°C and minimum will be 17-22°C.

PURULIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.1	28-29	14-16	38-86
Wednesday	0.0			
Thursday	0.0			

PURULIA

- Very light rainfall on Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southwesterly. Wind with a speed of 6.1-9.7 km per hour will blow for coming five days.
- Relative humidity maximum will be 31-52 % and minimum will be 15-22 %
- Maximum temperature will be 31-35°C and minimum will be 18-23°C.

BIRBHUM

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	13.7	29-30	15-19	40-94
Wednesday	0.6			
Thursday	0.0			

BIRBHUM

- Very light rainfall on Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southwesterly. Wind with a speed of 7.7-10 km per hour will blow for coming five days.
- Relative humidity maximum will be 33-45 % and minimum will be 16-19 %
- Maximum temperature will be 31-35°C and minimum will be 15-20°C

Andaman & Nicobar Islands

ANDAMAN

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	30-35	22-24	62-99
Wednesday	0.0			
Thursday	0.4			

NORTH MIDDLE ANDAMAN**SOUTH ANDAMAN.****NICOBAR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	30-31	22-24	70-85
Wednesday	0.0			
Thursday	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 has been forecasted. So, irrigate the crops as per the requirement.
Large cardamom	Vegetative Stage	-	Mulching should be done to conserve soil moisture and control weeds.
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 and irrigation is not recommended as 0.0 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 0.0 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.
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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	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.
Boro	Max. tillering stage	Start management of main field regarding all aspects like weed control, fertilizer management. Be careful regarding disease, pest management. To control pest apply Cartap 4G, Carbofuran 3G, Phorate 10 G etc. and to control disease spray hexaconazole @ 1ml/lit.
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.
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
Mango and Guava	Fruit setting stage	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 Thiophenet methyl @ 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
Fishery	General	i) Against Ulcer disease take preventive measure with application of 10-14 kg Lime per bigha fish pond. ii) For control of Ulcer disease, apply 13 kg Lime per bigha fish pond. Then after 7 days, apply 1.3 kg bleaching powder per bigha fish pond. iii) In order to avoid bird menace, give net covering over the fish pond. iv) for new pond preparation cultivate <i>Dhaincha</i>

Coastal Saline Zone

Crop	Stage	Disease	Advisory

Vindhyan Alluvial Zone

Crop	Stage	Variety	Advisory

Undulating Red and Laterite Zone

Crop	Stage	Problem	Advisory
Boro rice	Active Tillering	Weeds Blast	Remove the weeds by hand weeding in the field and Keep the bunds clean. Maintain the water level upto 2 cm in the field.

			Avoid excess nitrogen application. Spray Tricyclozole 75WP@ 1g/lit of water.
Wheat	Dough stage	---	It is the final growth stage of the crop. Give light irrigation.
Groundnut	Flowering	---	When the crop at the age of 35-40 DAS, Spray nutrient solution Groundnut rich @ 38g/lit at clear weather condition for improving pod filling in the crop.
Pointed gourd	Vegetative stage	Fruit fly	Apply Malathion 50 EC 1 ml/lit of water at late afternoon.
Fishery	Fishery Management: 1. For any bacterial disease infection Dip treatment of fish in Copper sulphate @5mg/lit of water for 1 minute. 2. Broadcast 6-7g potassium permanganate for decimal water body for continue 7 days at night.		
General	Crop coverage is less and soil is mildly dry in condition. Air temperatures are increased slightly and irrigation may be provided to the standing crops.		

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.