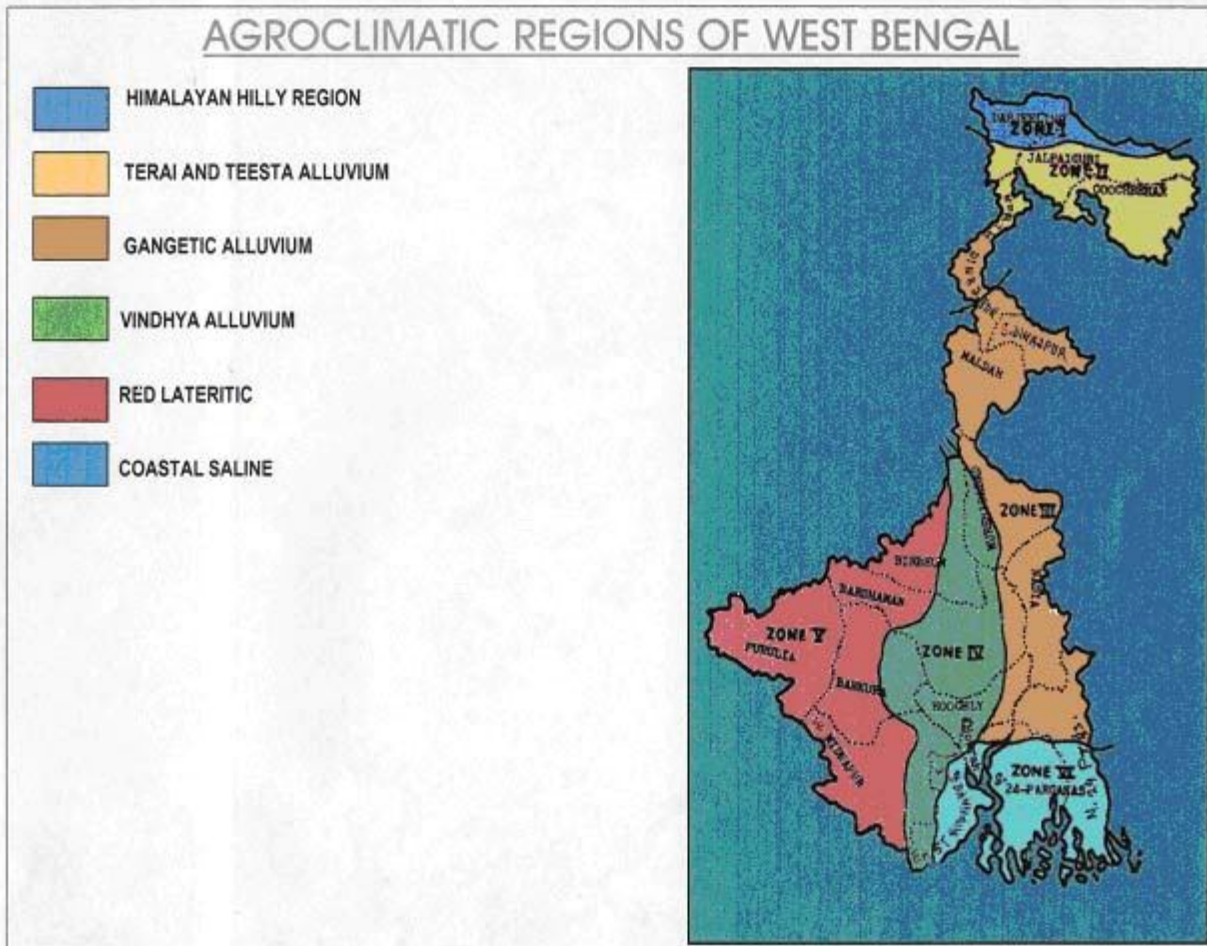


AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

For the period from 20th February '2019 to 24th February '2019



Issued on
Tuesday, 19th 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):

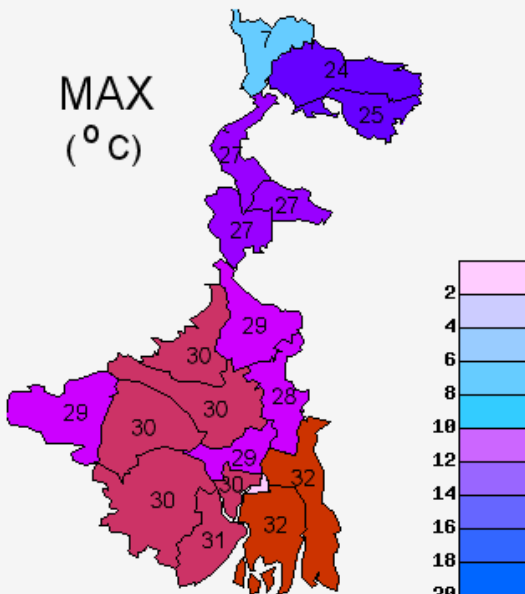
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad, Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata, Burdwan.

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

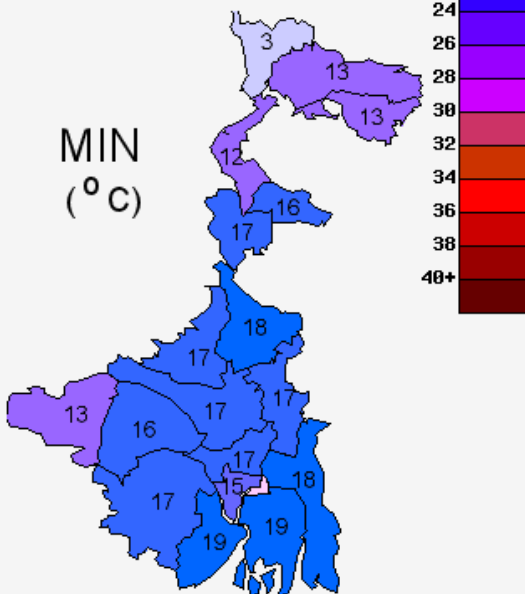
DAY 1 FORECAST

Valid up to :Wednesday 20th February 2019,0830 hrs IST

MAX
(°C)

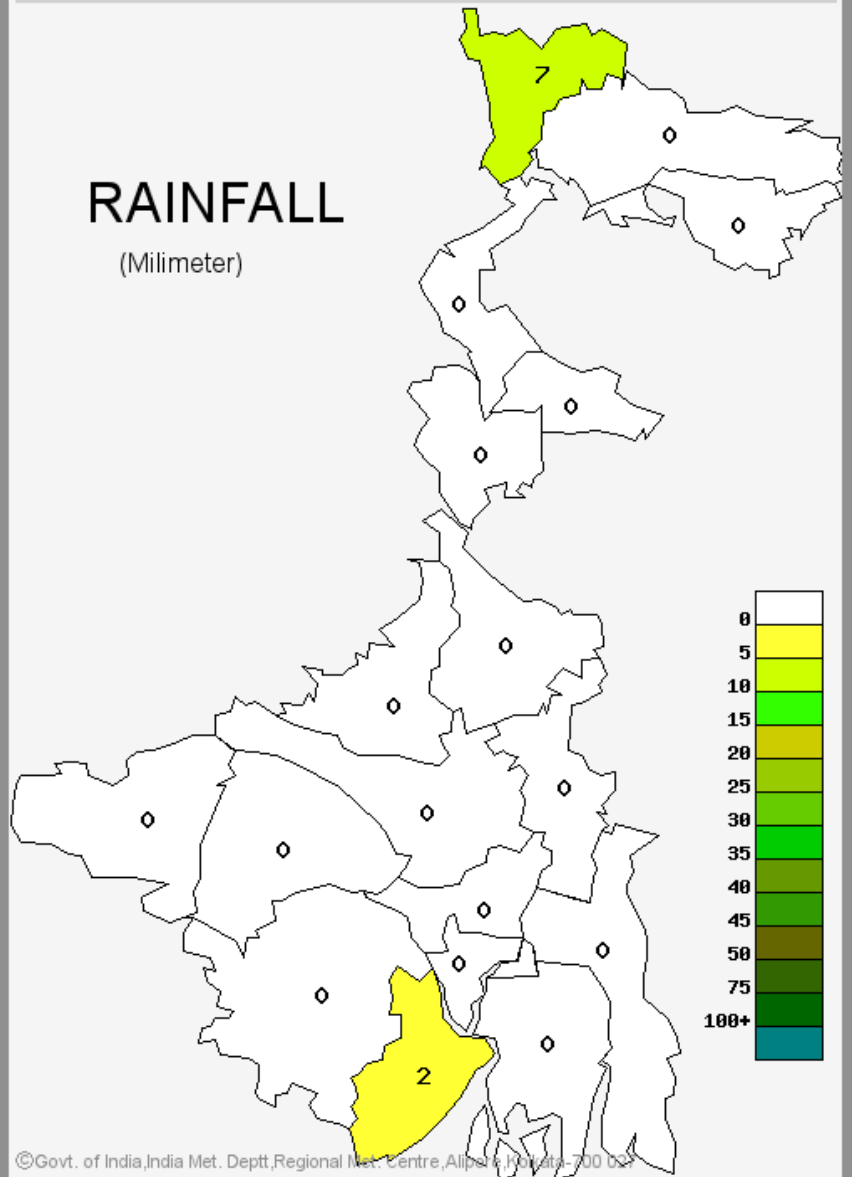


MIN
(°C)



RAINFALL

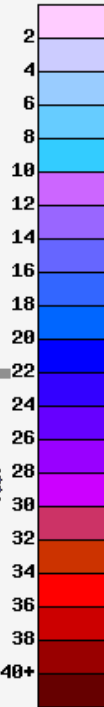
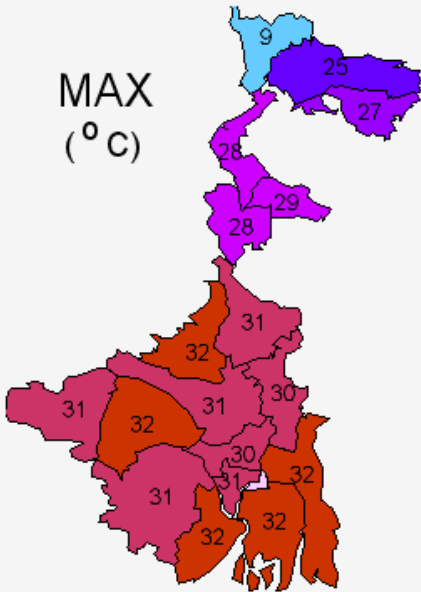
(Milimeter)



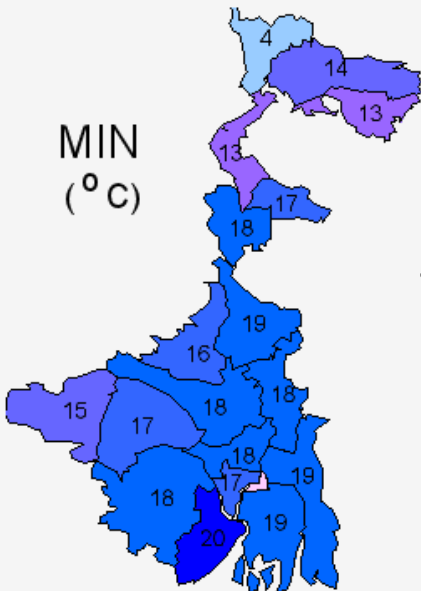
DAY 2 FORECAST

Valid up to :Thursday 21st February 2019,0830 hrs IST

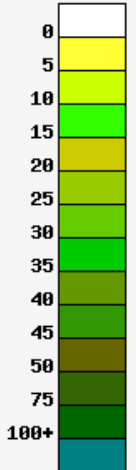
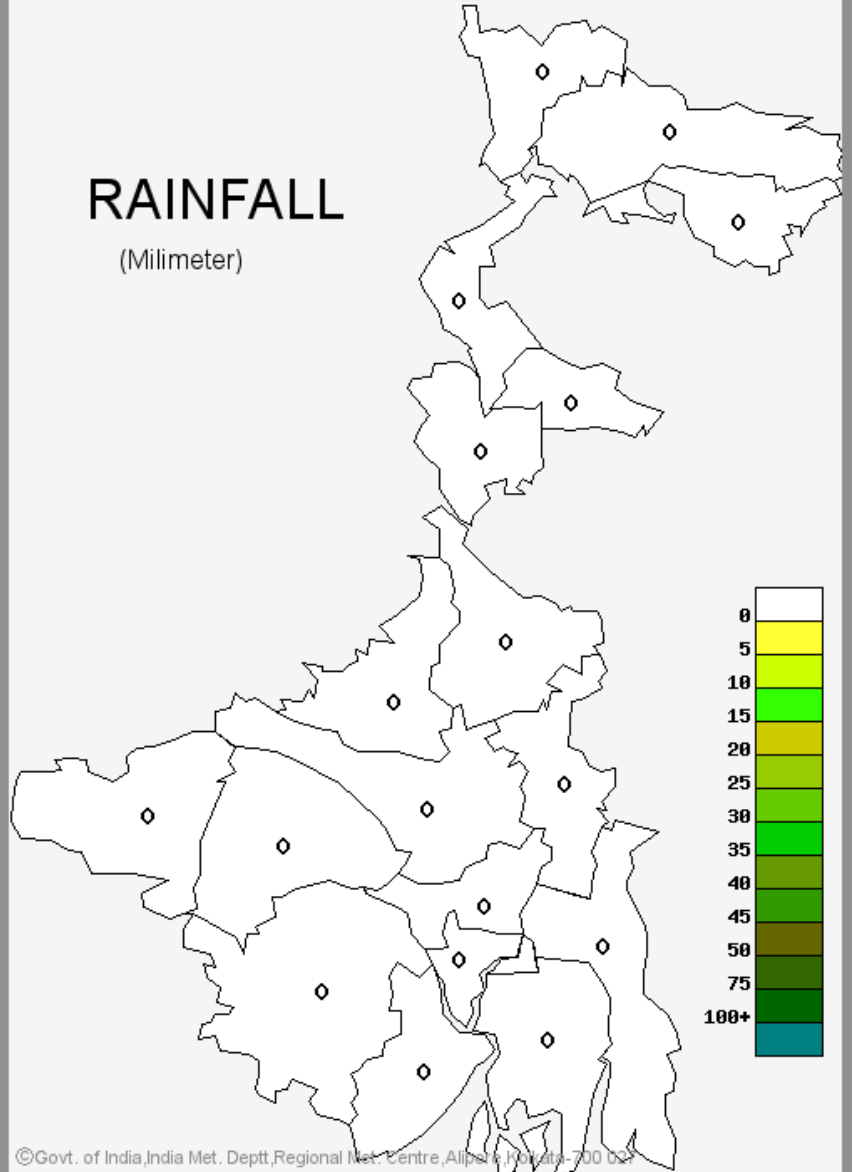
MAX
(°C)



MIN
(°C)



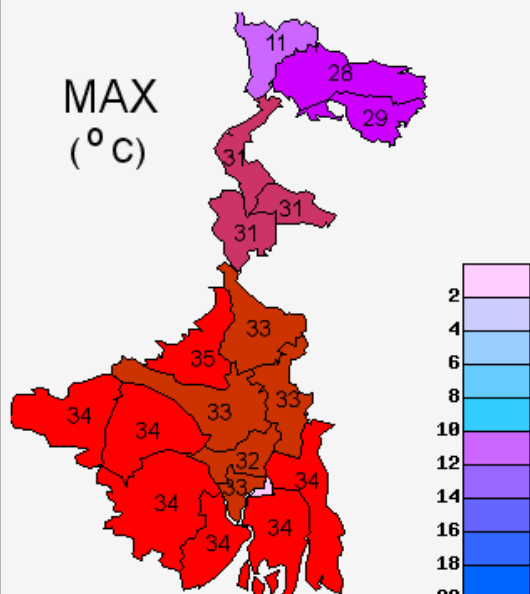
RAINFALL
(Milimeter)



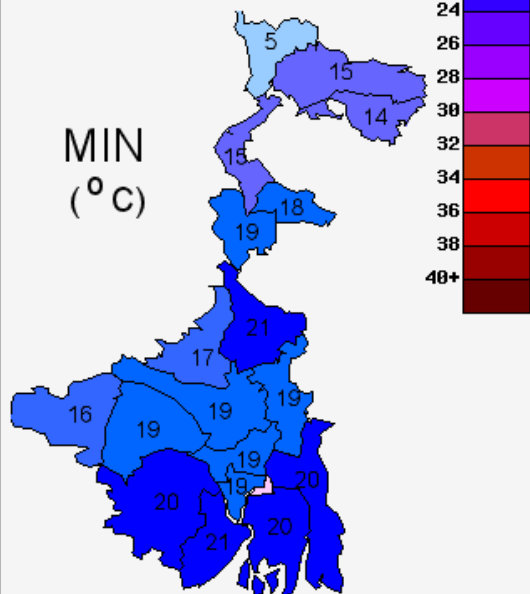
DAY 4 FORECAST

Valid up to : Saturday 23rd February 2019, 0830 hrs IST

MAX
(°C)

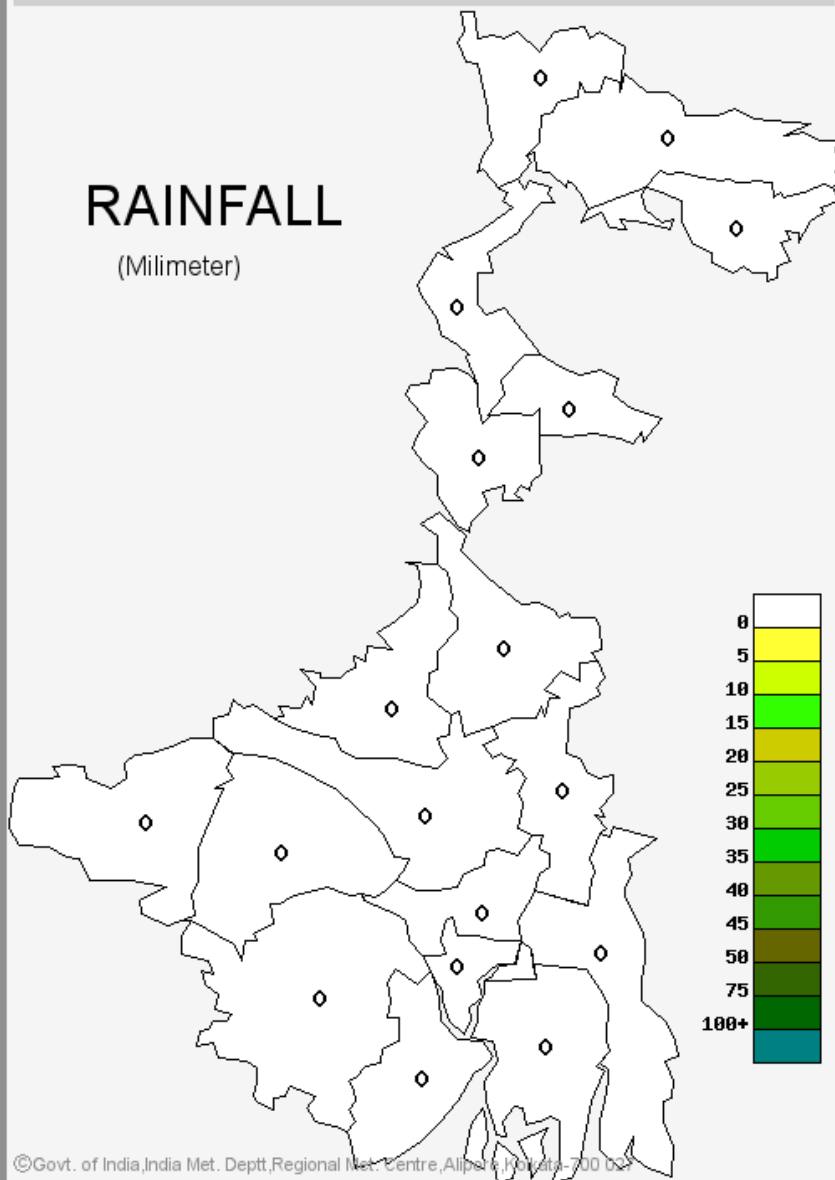


MIN
(°C)



RAINFALL

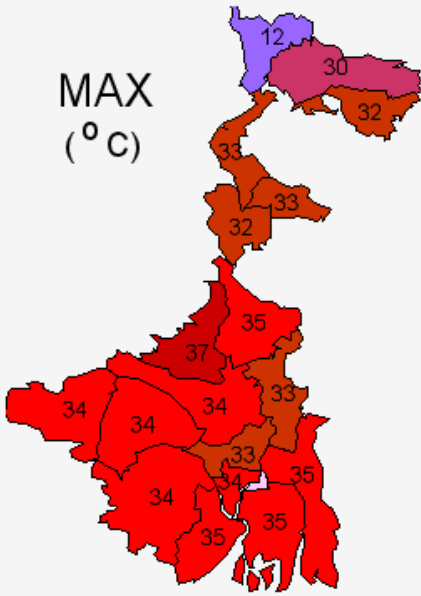
(Milimeter)



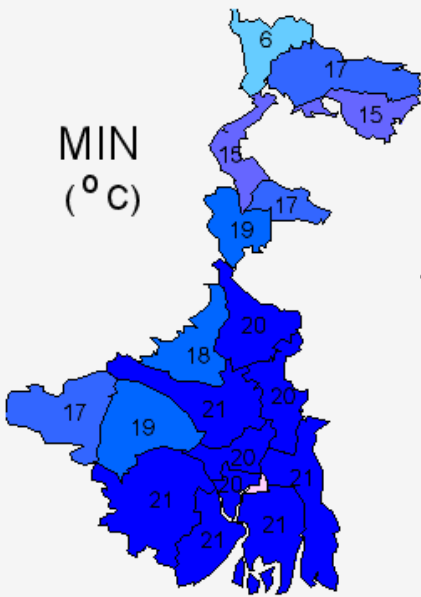
DAY 5 FORECAST

Valid up to : Sunday 24th February 2019, 0830 hrs IST

MAX
(°C)

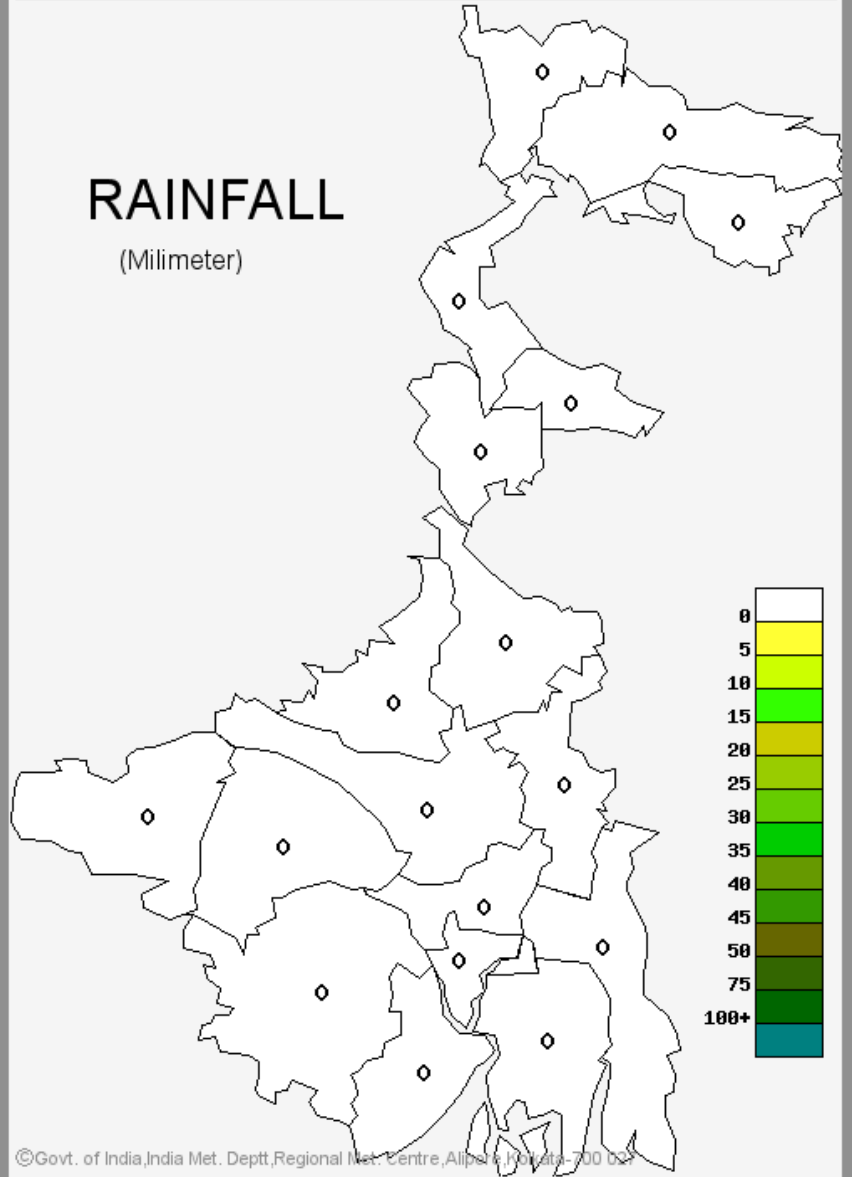


MIN
(°C)



RAINFALL

(Milimeter)



Part I: Weather

Districtwise significant Past Weather in different agroclimatic zones for the period 15/02/19 to 18/02/19

District level Weather Forecast for different agroclimatic zones for the period 20/02/19 to 24/02/19

West Bengal

Northern Hill Zone

DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	12-20	5-8	60-98
Saturday	--			
Sunday	--			
Monday	0.0			

DARJEELING

Rainfall	Possibilities of light rainfall on 20 th February and rest of the day's no rainfall has been forecasted. In coming five days total rainfall of 7.0 mm is expected.
Cloud Cover	Possibilities of mainly clear sky on 24 th February and rest of the day's clear sky are expected.
Max. Temp.	Maximum temperature is expected to be around 7.0 to 12.0°C.
Min. Temp.	Minimum temperature is expected to be around 3.0 to 6.0°C.
Max. RH	Maximum relative humidity is expected to be around 52 - 68 %.
Min. RH	Minimum relative humidity is expected to be around 26 - 41 %.
Wind	Wind mainly will blow from south-easterly on 22 nd February, southerly on 24 th February and rest of the days wind mainly will blow from easterly direction. In coming five days wind mainly will blow with a speed of 8.2- 9.0 km/hr is expected.

Terai-Teesta Alluvial Zone

COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	24-29	12-15	68-90
Saturday	0.0			
Sunday	5.2			
Monday	0.0			

COOCHBEHAR

- Clear sky will remain from 20th to 24th February.
- No rainfall will occur from 20th to 24th February.
- Wind easterly from 20th to 24th February, average speed of 9-13 km/hr. is expected.
- Maximum temperature is expected to be around 25-32°C and minimum temperature is expected to be 13-15°C
- Maximum and minimum relative humidity is expected to be 55-72% and 29-40% respectively.

JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	23-29	13-17	55-90
Saturday	0.0			
Sunday	0.1			
Monday	0.0			

JALPAIGURI

- Clear sky will remain from 20th to 24th February.
- No rainfall will occur from 20th to 24th February.
- Wind easterly from 20th to 24th February, average speed of 8-9 km/hr. is expected.
- Maximum temperature is expected to be around 24-30°C and minimum temperature is expected to be 13-17°C
- Maximum and minimum relative humidity is expected to be 49-65% and 30-44% respectively.

NORTH DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	23-27	10-11	70-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NORTH DINAJPUR

- Clear sky will remain from 20th to 24th February.
- No rainfall will occur from 20th to 24th February.
- Wind easterly from 20th to 22nd February and southerly from 23rd to 24th February, average speed of 8-12 km/hr. is expected.
- Maximum temperature is expected to be around 27-33°C and minimum temperature is expected to be 12-15°C
- Maximum and minimum relative humidity is expected to be 54-72% and 23-34% respectively.

Gangetic Alluvial Zone

BURDWAN

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-30	14-19	75-85
Saturday	3.0			
Sunday	0.0			
Monday	0.0			

BURDWAN**MURSHIDABAD**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-29	13-18	35-75
Saturday	2.0			
Sunday	3.0			
Monday	0.0			

MURSHIDABAD**NADIA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-30	16-17	31-81
Saturday	0.1			
Sunday	0.0			
Monday	0.0			

NADIA**HOOGLY**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-29	15-19	29-85
Saturday	0.1			
Sunday	0.0			
Monday	0.0			

HOOGLY**HOWRAH**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-29	13-18	80-97
Saturday	0.1			
Sunday	0.0			
Monday	0.0			

HOWRAH**NORTH 24 PGS**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-31	15-20	34-80
Saturday	0.1			
Sunday	0.1			
Monday	0.0			

NORTH 24 PGS

Vindhyan Alluvial Zone

DAKSHIN DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-30	13-15	37-84
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

DAKSHIN DINAJPUR

- Possibility of clear sky on 20th to 22nd February and mainly clear on 23rd & 24th February.
- There seems to be possibility of no rain on 20th to 24th February.
- Wind from Easterly, North-easterly, Westerly and South-westerly direction with an average speed of 7.6-12.9 Km/hr. is expected.
- Maximum temperature is expected to be around 29.0-33.0^oC and minimum temperature is expected to be 16.0-18.0^oC.
- Maximum and minimum relative humidity is expected to be 53-75% and 25-32% respectively

MALDA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-29	15-19	40-80
Saturday	1.0			
Sunday	0.0			
Monday	0.0			

MALDA

- Possibility of clear sky on 20th & 21st February, mainly clear sky on 22nd & 23rd February and partly cloudy on 24th February.
- There seems to be possibility of no rain on 20th to 24th February.
- Wind from Westerly & South-easterly direction with an average speed of 6.8-13.6 Km/hr. is expected.
- Maximum temperature is expected to be around 27.0-32.0^oC and minimum temperature is expected to be 17.0-19.0^oC.
- Maximum and minimum relative humidity is expected to be 52-64% and 23-31% respectively

Coastal Saline Zone**PURBA MIDNAPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	25-33	13-20	57-90
Saturday	0.1			
Sunday	1.2			
Monday	0.0			

PURBA MIDNAPUR

- Light rainfall is predicted in 24th February and no rainfall is predicted in the remaining days.
- Sky will be clear in the next five days.
- Wind speed will be 8.6-13.1m/sec. and the predominant wind direction will be Easterly to South-Westerly.
- Maximum temperature is expected to be around 32.0^oC -37.0^oC and minimum temperature is likely to be around 18.0^oC- 21.0^oC.
- Maximum and minimum relative humidity will be in the range of 59% -95% and 26% -36%.

SOUTH 24-PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-33	15-20	40-94
Saturday	0.1			
Sunday	0.1			
Monday	0.0			

SOUTH 24-PGS

- Light rainfall is predicted in 24th February and no rainfall is predicted in the remaining days.
- Sky will be clear in the next five days.
- Wind speed will be 10.1-13.9m/sec. and the predominant wind direction will be Easterly to Westerly.
- Maximum temperature is expected to be around 32.0^oC -37.0^oC and minimum temperature is likely to be around 18.0^oC- 21.0^oC.
- Maximum and minimum relative humidity will be in the range of 60% -95% and 29% -42%.

Undulating Red and Laterite Zone

PASCHIM MIDNAPORE

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-32	16-19	28-90
Saturday	2.6			
Sunday	0.0			
Monday	0.0			

PASCHIM MIDNAPORE

- No rainfall for the coming five days and clear sky will be present for the same.
- Predominant wind direction will be Southwesterly. Wind with a speed of 6.8-10.4 km per hour will blow for coming five days.
- Relative humidity maximum will be 51-87 % and minimum will be 21-25 %
- Maximum temperature will be 30-34°C and minimum will be 17-21°C.

BANKURA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-32	13-18	22-95
Saturday	3.2			
Sunday	0.0			
Monday	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 Northwesterly. Wind with a speed of 6.6-10.6 km per hour will blow for coming five days.
- Relative humidity maximum will be 51-81 % and minimum will be 20-39 %
- Maximum temperature will be 29-33 °C and minimum will be 14-16 °C.

PURULIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-29	11-18	45-81
Saturday	2.0			
Sunday	0.0			
Monday	0.0			

PURULIA

- No rainfall for the coming five days and clear sky will be present for the same.
- Predominant wind direction will be Southwesterly. Wind with a speed of 5.6-9.2 km per hour will blow for coming five days.
- Relative humidity maximum will be 43-57 % and minimum will be 17-20%
- Maximum temperature will be 29-34°C and minimum will be 13-17°C.

BIRBHUM

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-32	11-17	25-85
Saturday	3.4			
Sunday	0.0			
Monday	0.0			

BIRBHUM

- No rainfall for the coming five days and clear sky will be present for the same.
- Predominant wind direction will be Southwesterly. Wind with a speed of 7.1-12 km per hour will blow for coming five days.
- Relative humidity maximum will be 43-56 % and minimum will be 21-24%
- Maximum temperature will be 30-37°C and minimum will be 16-18°C.

Andaman & Nicobar Islands**ANDAMAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-33	23-25	70-99
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NORTH MIDDLE ANDAMAN

Bright sunshine hour is likely to occur during next five days. In North and Middle Andaman no rainfall is expected during this period. The maximum temperature in North and Middle Andaman will be 31.0 to 32.0 °C with minimum temperature of 23.0 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 72 to 78 % and 59 to 68 % respectively in North and Middle Andaman. Wind speed of 11.2 to 18.3 km/h is expected from North Westerly direction.

SOUTH ANDAMAN.

- Bright sunshine hour is likely to occur during next five days. In South Andaman no rainfall is expected during this period. The maximum temperature in South Andaman will be 31.0 to 32 °C with minimum temperature of 23 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 72 to 78 %, and 62 to 68 % respectively in South Andaman. Wind speed of 10.1 to 19.5 km/h is expected from North Easterly direction

NICOBAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-30	23-24	68-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NICOBAR

- Partly cloudy weather with light rainfall is likely to occur during next five days. In Nicobar Islands 4.0 mm of rainfall is expected during this period. The maximum temperature will be 30.0 to 31 °C with minimum temperature of 27 to 28 °C, whereas the maximum and minimum relative humidity is expected to be 78 to 82 %, and 70 to 78 %, respectively in Nicobar Islands. Wind speed of 17.1 to 24.4 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 light rainfall on 20 th February and rest of the day's no rainfall has been forecasted so, irrigate the crops as per the requirement and proper drainage channel should be maintained.
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. Irrigate the orchard as per the requirement as 7.0 mm rainfall has been forecasted for coming five days.
Cole Crop (Cauliflower, Cabbage, etc)	Harvesting stage	-	Mature crop should be harvested.
Potato	Tuberization Stage	-	Weeding should be done and irrigate the crops as per the requirement as total 7.0 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 should be given as per the requirement for better siliqua formation because total 7.0 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 Clear sky and no rainfall will occur from 20 th to 24 th February.			
Agriculture and Horticulture			
Main Crops	Stage	Pest &	Advisory

			--Before top dressing field should be dry and 24 hours after top dressing field should be irrigated.
Potato	Tuber formation	Chance of aphid and late blight attack due to rising temperature and morning fog	--Follow last top dressing and earthing up --Spray Dimethoate@1.5ml/liter of water or Imidachlorpit@3ml/5liter of water for aphid attack --As precaution measure apply copper fungicide for late blight attack
Mango	Flowering	Fungal and hopper attack due to morning fog	--Spray fresh water to the tree --Apply a mixture of DiethaneM-45@2.5g/liter of water and Chlorpyriphos@2.5ml/liter of water
Sunflower	vegetative	--Keep moisture level perfect in the field	
Green gram and black gram	--Start sowing of green gram and black gram		

Vindhyan Alluvial Zone

Crop	Stage	Variety	Advisory
General	--	--	Possibility of no rain during coming five days 20 th to 24 th February top dressing should be done this time.
Boro Rice	Tillering		Apply 1 st top dressing with Urea @ 5kg/bigha.
Lentil	Growth stage	--	Repeat the dose of DAP and Boron @ 20gram/liter and 2g/liter of water respectively at the age of 45 days of lentil.
Winter Vegetables	Vegetative	Pest	Management of winter vegetable pest at early vegetative stage sprays Chlorpyriphos 50% + Cypermethin 5% @ 1.5 ml/liter of water.
Mustard	Growth	Aphid	Management of mustard aphid sprays Dinoteforun 20% S G @ 0.5gram/liter of water.
Mustard	Growth	Alternaria Blight	To control alternaria blight of mustard spray mancozeb (2.5g/liter of water) or Iprodione @ 1g/liter of water.
Vegetables	Growth	Sucking pest	Management of sucking pest on vegetables crops spray dadeci @ 1.5g/liter of water with sticker @ 0.5ml/liter.
Cattle	--	--	All new born animals should be dewormed and lambs/kids should be vaccinated against PPR.

Fishery

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. Apply 7.3 kg Urea per bigha at 20 days after transplanting. Avoid excess nitrogen application. Spray Tricyclozole 75WP@ 1g/lit of water.
Wheat	Flowering Dough stage	---	Keep the field weed free. Give irrigation to the crop and avoid the unnecessary chemical applications at this stage. It is the final growth stage of the crop. Give light irrigation.
Potato	Tuber bulking	Late blight	Give light irrigation to the crop. Apply Mancozeb @ 2.5g/lit of water at an interval of 5-7 days.
Pointed gourd	Vegetative stage	Downy mildew	Apply Ridomil@2g/lit of water at late afternoon.
Fishery	Fishery Management: 1. Use of lime at every week @1.2kg/decimal. 2. For any bacterial disease infection Dip treatment of fish in coppersulphate @5mg/lit of water for 1 minute. 3. Broadcast 6-7g potassium permanganate for decimal water body for continue 7 days at night. 4. For Ulcerative syndrome harvest all ate fish from pond		

Andaman & Nicobar Islands

For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	All	<ul style="list-style-type: none">• Provide light irrigation during evening hours to the vegetables as weather is likely to be dry.
Coconut/ Arecanut	All	<ul style="list-style-type: none">• Mulch around the coconut and arecanut tree with fallen leaves and crop residue to conserve soil moisture.
Poultry	All	<ul style="list-style-type: none">• Provide ventilation to the house where the poultry birds are kept at night with access to clean drinking water.

For South Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	All	<ul style="list-style-type: none">• Provide light irrigation during evening hours to the vegetables as weather is likely to be dry.
Coconut/ Arecanut	All	<ul style="list-style-type: none">• Mulch around the coconut and arecanut tree with fallen leaves and crop residue to conserve soil moisture.
Poultry	All	<ul style="list-style-type: none">• Provide ventilation to the house where the poultry birds are kept at night with access to clean drinking water.

For Nicobar

Crop/Livestock	Stage	Weather based agro advisories
Coconut	All	<ul style="list-style-type: none">• Mulch around the basin of coconut tree with crop residue to conserve soil moisture.
Poultry	All	<ul style="list-style-type: none">• Provide ventilation to the house where the poultry birds are kept at night with access to clean drinking water.

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