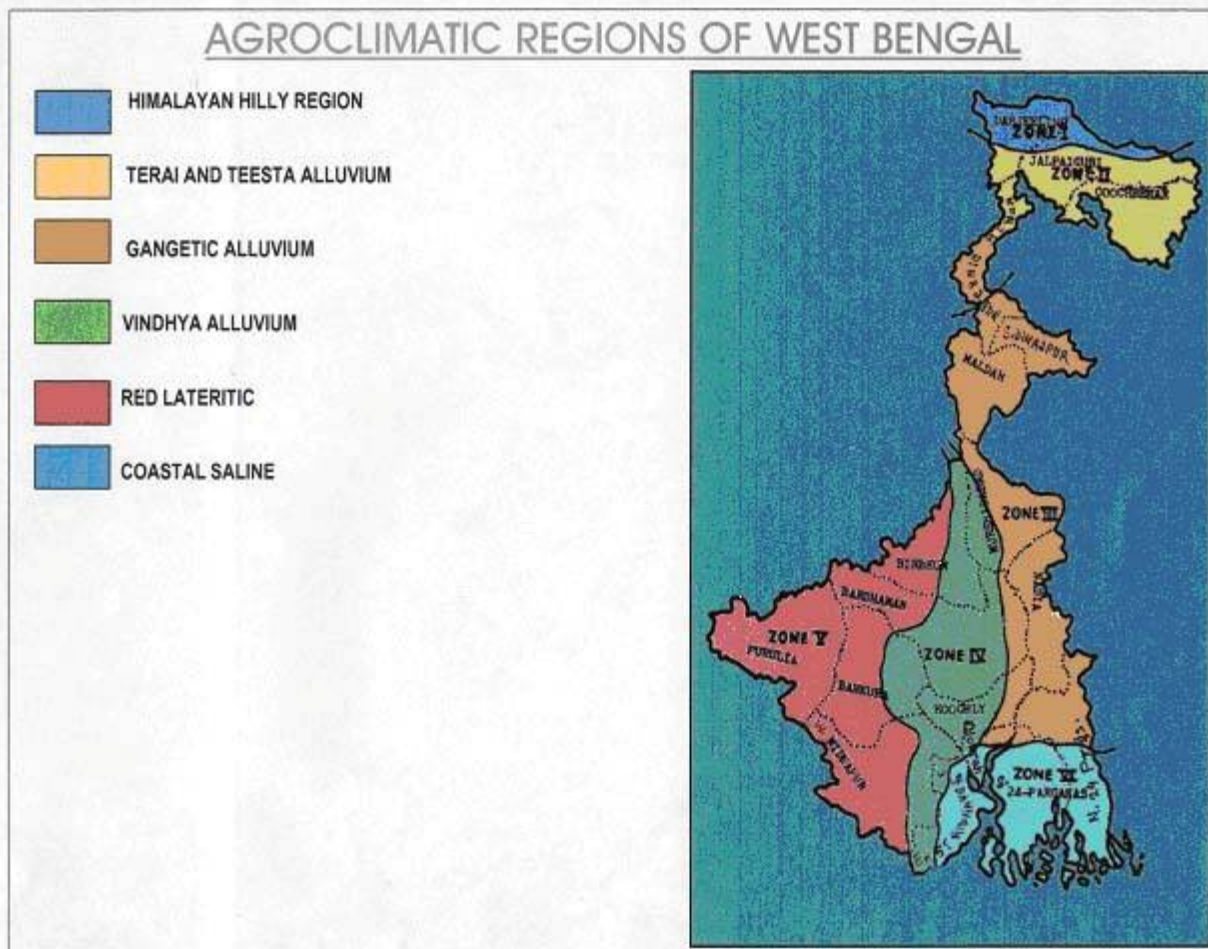


AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

For the period from 05th December '2018 to 09th December '2018



Issued on
Tuesday, 04th 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):

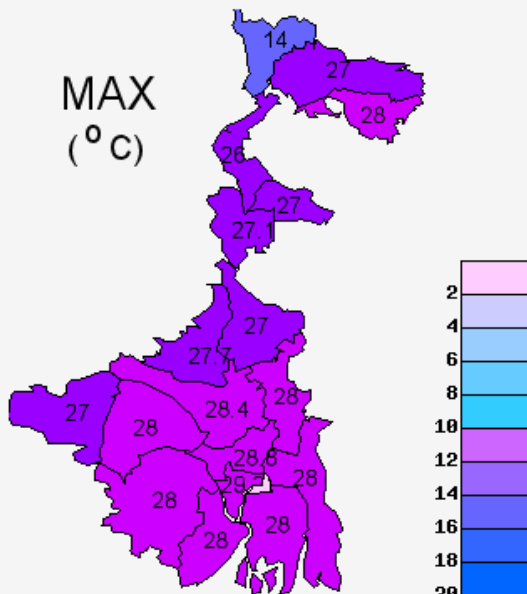
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad, Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata, Burdwan.

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

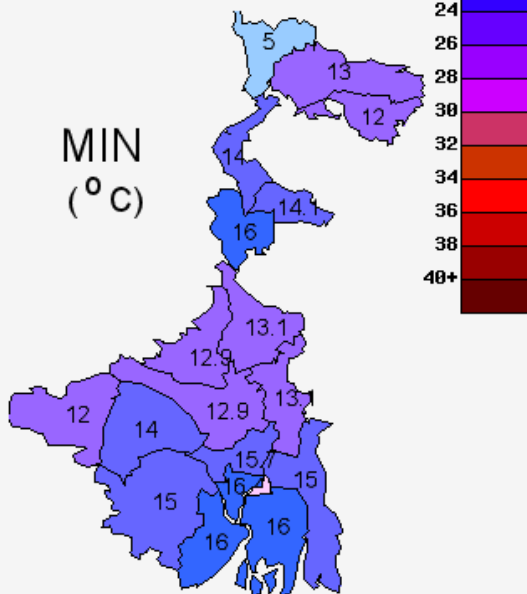
DAY 1 FORECAST

Valid up to :Wednesday 05th December 2018,0830 hrs IST

MAX (°C)

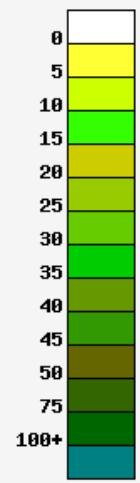
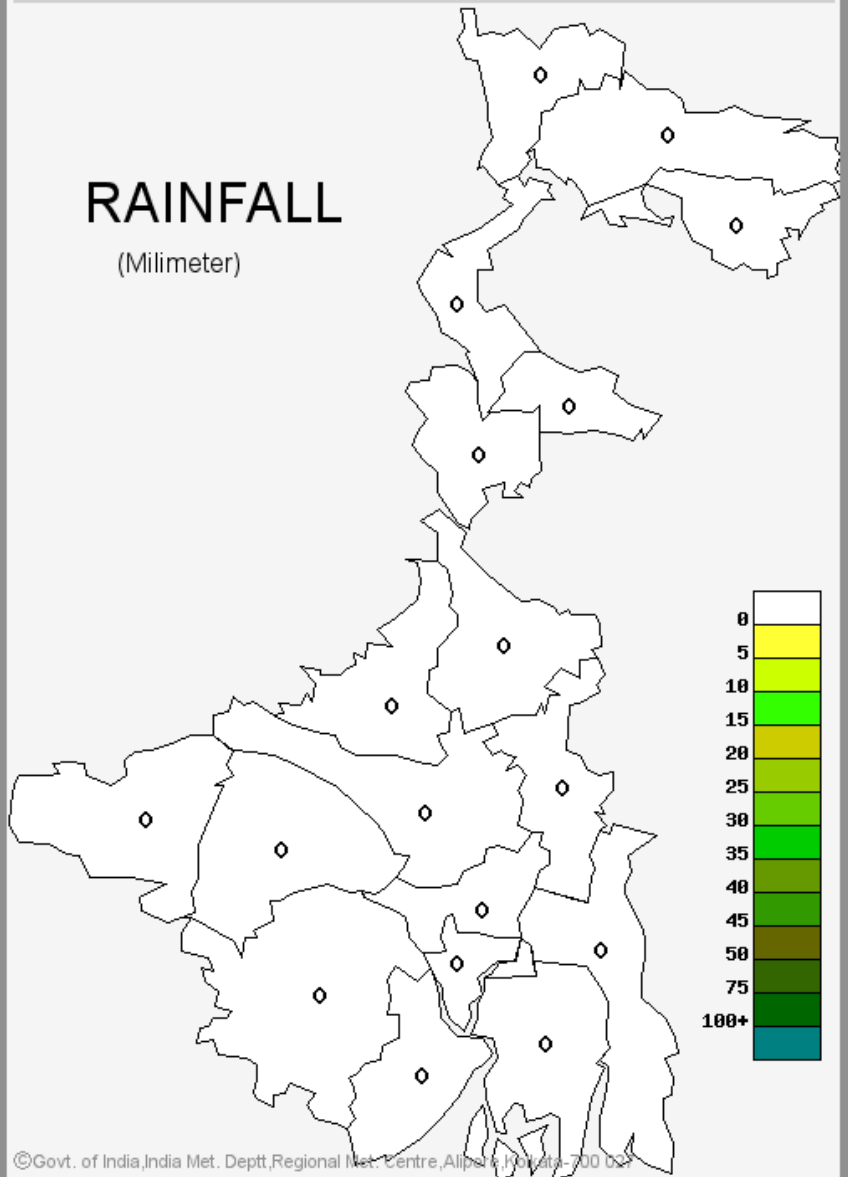


MIN (°C)



RAINFALL

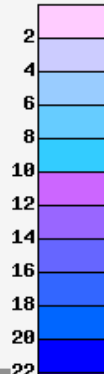
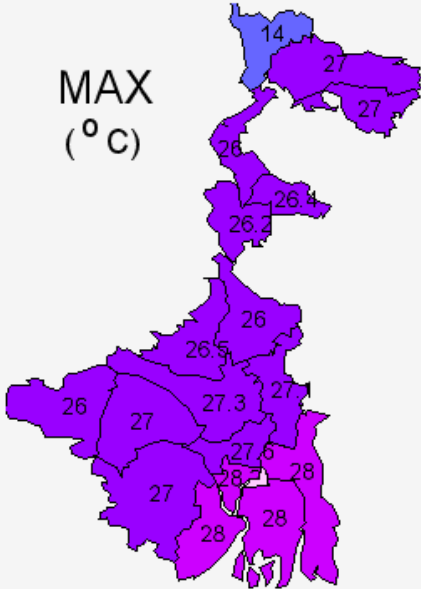
(Milimeter)



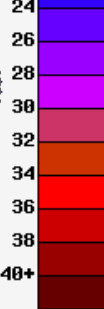
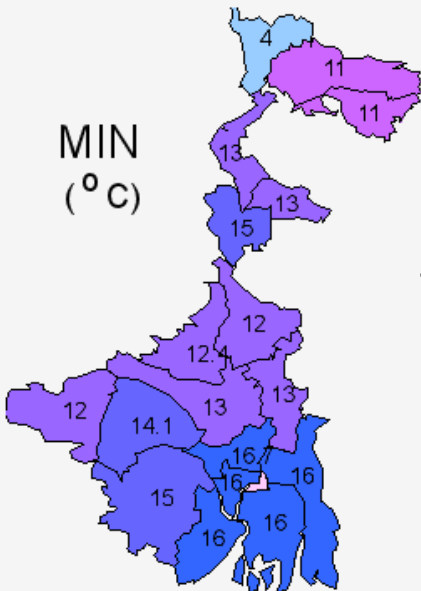
DAY 2 FORECAST

Valid up to :Thursday 06th December 2018,0830 hrs IST

MAX
(°C)

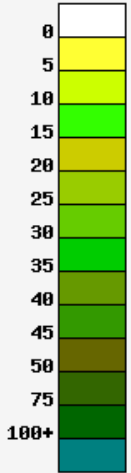
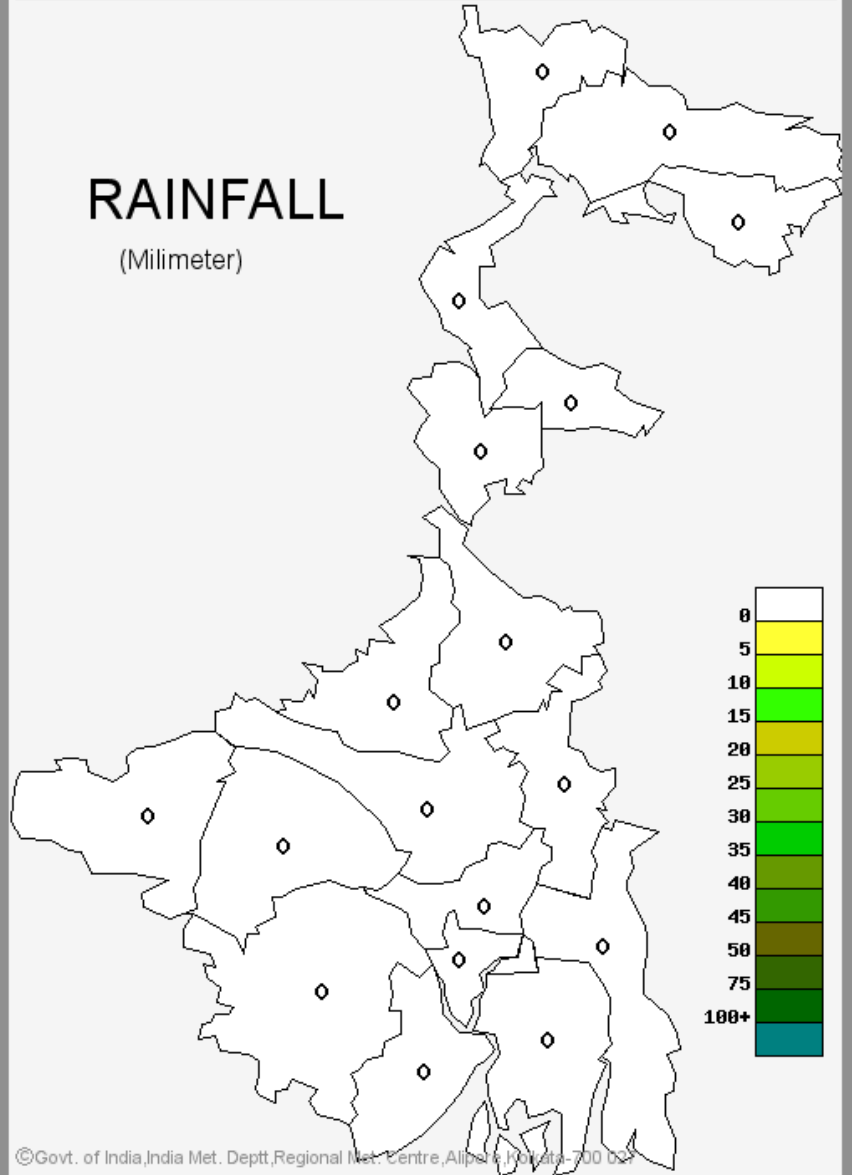


MIN
(°C)



RAINFALL

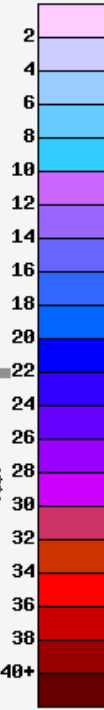
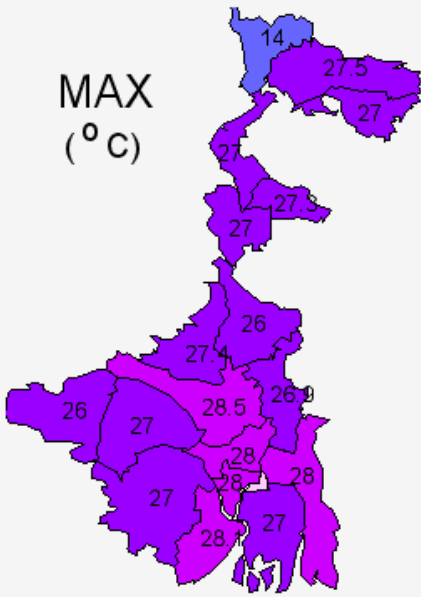
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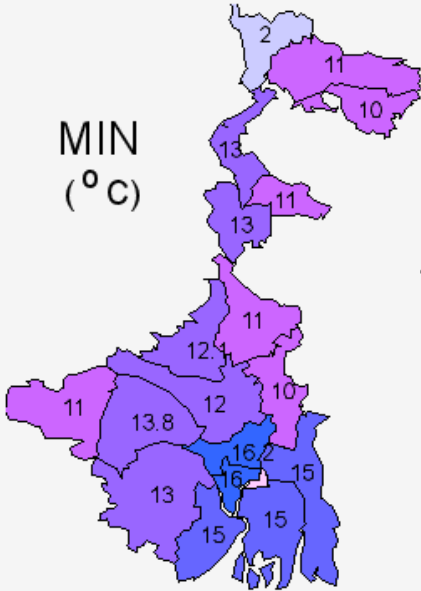
DAY 3 FORECAST

Valid up to :Friday 07th December 2018,0830 hrs IST

MAX
(°C)

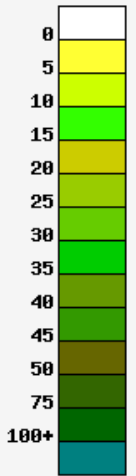
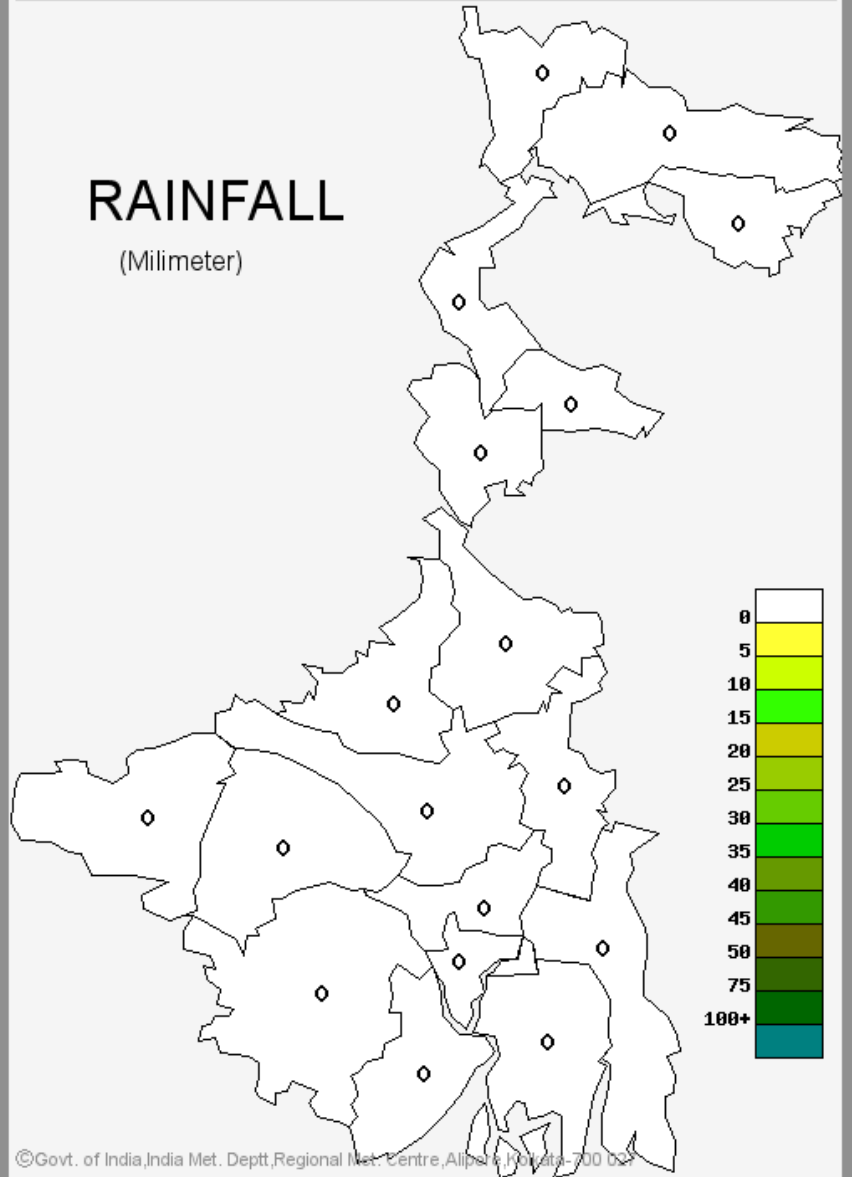


MIN
(°C)



RAINFALL

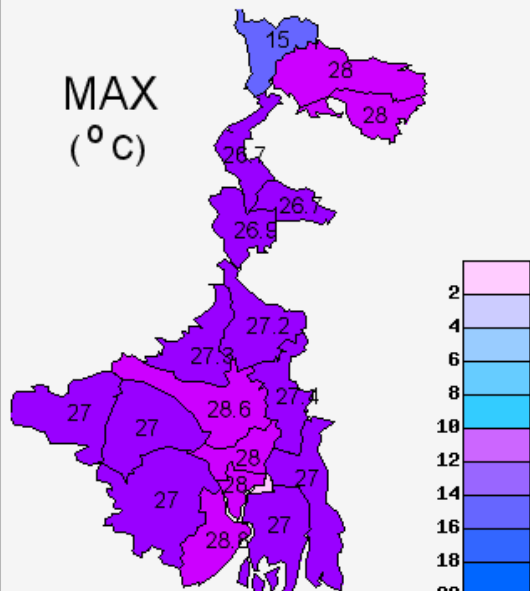
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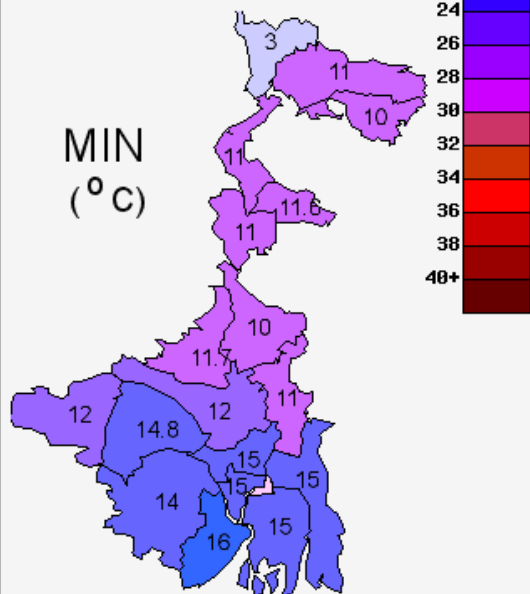
DAY 4 FORECAST

Valid up to : Saturday 08th December 2018, 0830 hrs IST

MAX
(°C)

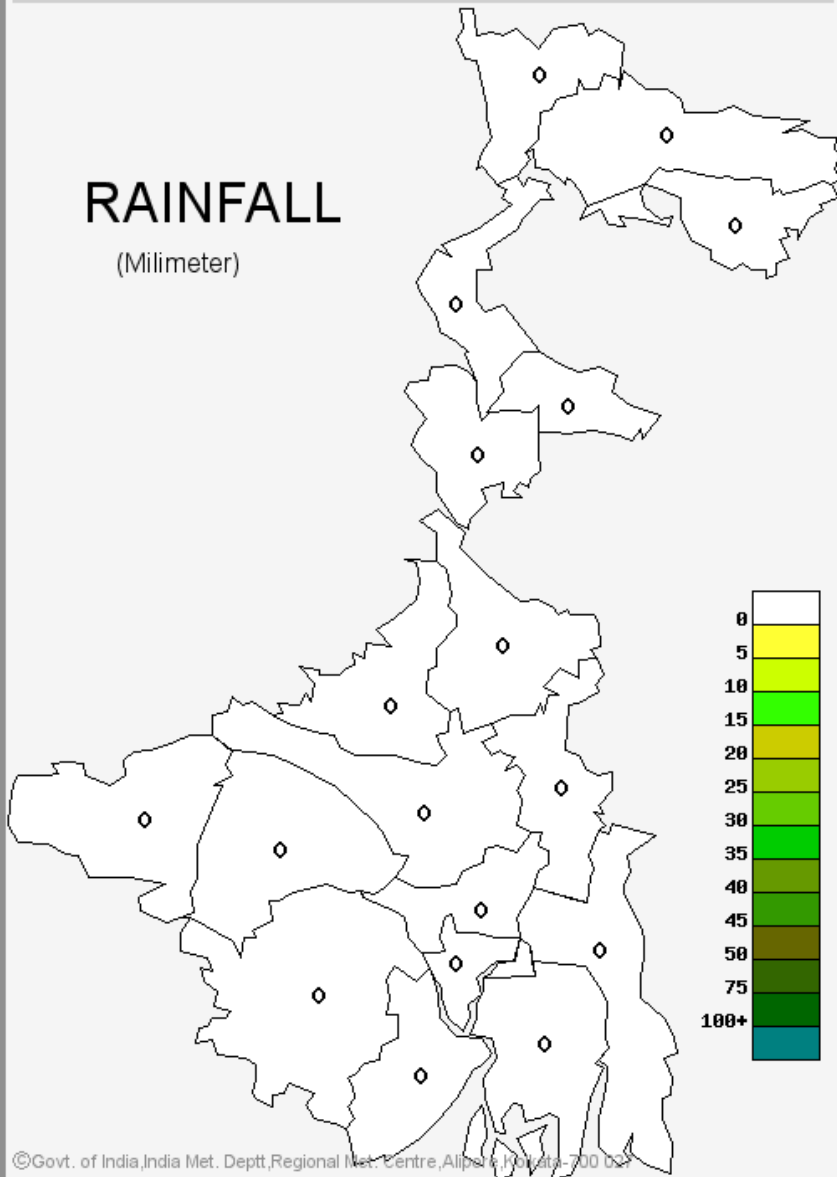


MIN
(°C)



RAINFALL

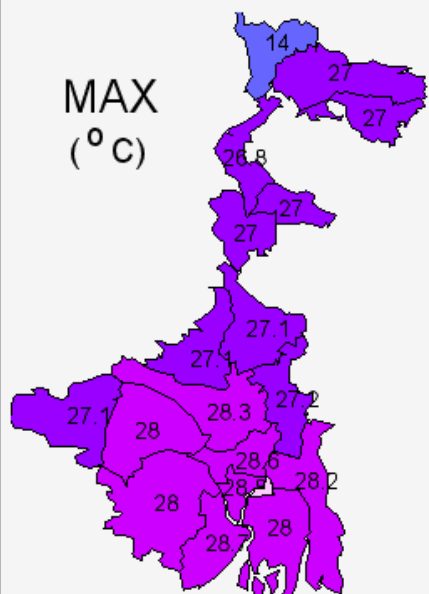
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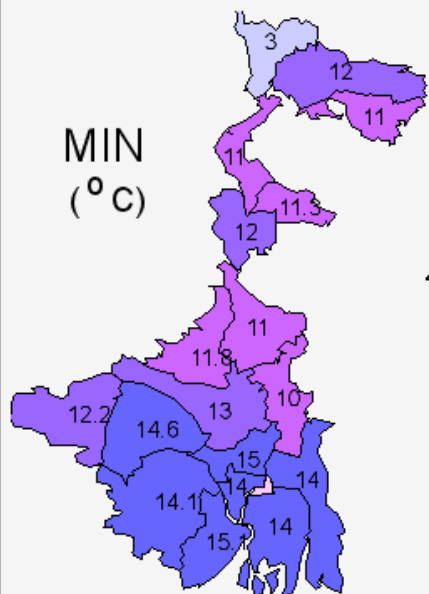
DAY 5 FORECAST

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MAX (°C)

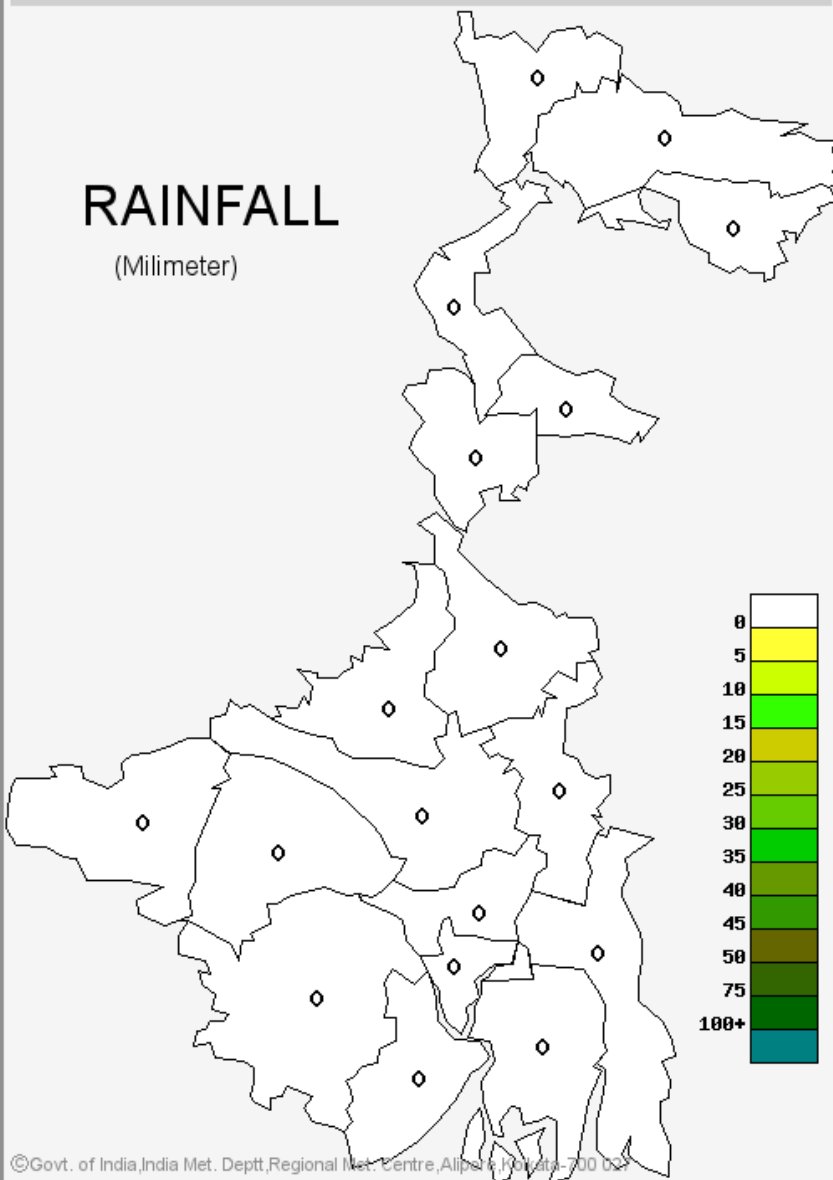


MIN (°C)



RAINFALL

(Milimeter)



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Part I: Weather

Districtwise significant Past Weather in different agroclimatic zones for the period 30/11/18 to 03/12/18

District level Weather Forecast for different agroclimatic zones for the period 05/12/18 to 09/12/18

West Bengal

Northern Hill Zone

DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	18-20	4-11	70-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

DARJEELING

Rainfall	Possibilities no rainfall are expected for coming five days. In next five days total rainfall of 0.0 mm is expected.
Cloud Cover	Possibilities of mainly cloudy sky on 05 th and 6 th Dec, and rest of the day's clear sky are expected.
Max. Temp.	Maximum temperature is expected to be around 14 to 15°C.
Min. Temp.	Minimum temperature is expected to be around 2.0 to 5.0°C.
Max. RH	Maximum relative humidity is expected to be around 53-72%.
Min. RH	Minimum relative humidity is expected to be around 29-43%.
Wind	Wind mainly will blow from southerly on 6 th Dec, and rest of the day wind mainly will blow from south easterly direction. In coming five days wind mainly will blow with a speed of 0-5km/hr is expected.

Terai-Teesta Alluvial Zone

COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-29	11-11	70-80
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

COOCHBEHAR

- Mainly Cloud Sky 5th December, 6th December Over cast and Clear sky will remain from 07th December to 09th December.
- No rainfall will occur from 05th December to 09th December.
- Wind North easterly from 05th December to 09th December, average speed of 6.2-7.3 km/hr. is expected.
- Maximum temperature is expected to be around 28.2-26.9°C and minimum temperature is expected to be 7.7-9.1°C.
- Maximum and minimum relative humidity is expected to be 51-68% and 30-44% respectively.



JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-29	13-13	65-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

JALPAIGURI

- Mainly Cloudy Sky 05thDecember to 06th December and Clear sky will remain from 07th December to 09th December.
- No rainfall will occur from 05th December to 09th December.
- Wind north easterly from 05th December and 08th - 09th December, Easterly 06th -07thDecember average speed of 5.9-7 km/hr. is expected.
- Maximum temperature is expected to be around 25.9-27.5°C and minimum temperature is expected to be 6.4-7.9°C.
- Maximum and minimum relative humidity is expected to be 52-66% and 31-43% respectively.
-

NORTH DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	21-23	13-14	84-93
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NORTH DINAJPUR

- Mainly Cloudy sky from 05th December, 06th December Over cast and Clear sky will remain from 07th December to 09th December.
- No rainfall will occur from 05th December to 09th December.
- Wind South easterly from 05th December to 07th December, and North easterly 08th December to 09th December average speed of 6-7 km/hr. is expected.
- Maximum temperature is expected to be around 26.9-27.6°C and minimum temperature is expected to be 9.6-10.7°C.
- Maximum and minimum relative humidity is expected to be 55-60% and 28-38% respectively.
-

Gangetic Alluvial Zone**BURDWAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-30	15-18	60-85
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

BURDWAN

•

MURSHIDABAD

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-31	14-15	70-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

MURSHIDABAD

➤

NADIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-29	16-18	40-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NADIA

HOOGHLY

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-30	15-19	55-95
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

HOOGHLY**HOWRAH**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-32	17-19	80-95
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

HOWRAH**NORTH 24 PGS**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-30	17-19	50-80
Saturday	0.0			
Sunday	0.0			
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	29-30	16-17	45-95
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

DAKSHIN DINAJPUR

- Possibility of mainly cloudy on 5th December, cloudy on 6th December, mainly clear sky on 7th December and clear sky on 8th & 9th December.
- There seems to be possibility of no rainfall on 5th December to 9th December.
- Wind from North-easterly & North-westerly direction with an average speed of 6.3-7.3 Km/hr. is expected.
- Maximum temperature is expected to be around 26.4-27.3⁰C and minimum temperature is expected to be 11.0-14.1⁰C.
- Maximum and minimum relative humidity is expected to be 52-70 % and 30-36 %, respectively.
-

MALDA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-29	17-20	65-75
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

MALDA

- Possibility of mainly cloudy on 5th December, cloudy on 6th December, mainly clear sky on 7th December and clear sky on 8th & 9th December.
- There seems to be possibility of no rainfall on 5th December to 9th December.
- Wind from North-easterly, North-westerly & South-easterly direction with an average speed of 6.2-8.0 Km/hr. is expected.
- Maximum temperature is expected to be around 26.2-27.1⁰C and minimum temperature is expected to be 11.0-16.0⁰C.
- Maximum and minimum relative humidity is expected to be 46-59 % and 24-33 %, respectively.
-

Coastal Saline Zone**PURBA MIDNAPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-30	15-20	45-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

PURBA MIDNAPUR**SOUTH 24-PGS**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-30	15-20	55-75
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

SOUTH 24-PGS**Undulating Red and Laterite Zone****PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-29	15-18	50-80
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

PASCHIM MIDNAPORE**BANKURA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-30	16-20	55-85
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

BANKURA

PURULIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-28	14-15	35-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

PURULIA**BIRBHUM**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-30	14-18	60-80
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

BIRBHUM**Andaman & Nicobar Islands****ANDAMAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-32	24-26	65-95
Saturday	15.5			
Sunday	25.0			
Monday	0.0			

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

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-33	23-25	65-95
Saturday	0.0			
Sunday	0.0			
Monday	3.4			

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 forecastedso, irrigate the crops as per the requirement.
Large cardamom	Vegetative Stage	-	Manuring followed by irrigation should be done.
Mandarin Orange	Vegetative and Harvesting stage	-	Harvesting of fruits should be started, as per the elevation. Remove and destroy the fallen fruits to prevent population of fruit fly.
Ginger	Pre-harvesting Stage	-	Careful rouging and destruction of infected plants should be done.
Turmeric	Pre-harvesting Stage	-	Careful rouging and destruction of infected plants should be done.
Rice	Dough Stage	-	No irrigation is recommended for this stage.
Cole Crop (Cauliflower, Cabbage, etc)	Planting stage	-	Planting of cole crops should be done with desirable moisture in the soil.
Potato	Land Preparation		During land preparation all the weeds and previous crops stubble should be removed from field. Before sowing of tubers full dose of FYM @ 10 ton/ha and 1/3 dose of nitrogen (66kg/ha) and full dose of phosphorus (150kg/ha) and 1/3 dose potassium (50kg/ha) should be incorporated to the soil.
Garden Pea	Sowing stage		Sowing should be done with desirable moisture in the soil.
Animal Husbandry (Cattle)	-	-	Calf should be feed with calf starter for 3-4 days after birth. This will enhance digestive system and help to maintain body heat during winter.
General	-	-	In coming five days no rainfall has been forecastedso, irrigate the crops as per the requirement.

Terai-Teesta Alluvial Zone

Advisory			
General	Mainly Clear sky will remain from 05 th December to 09 th December.		
Agriculture and Horticulture			
Main Crops	Stage	Pest & Diseases	Advisory
Potato	Seed treatment and sowing		Treat the seeds before sowing in the solution of (Carbendazim 1g + Mencozeb 2g) per lit. of water by dipping for at least 30 minutes.
Lentil	Sowing		If already harvesting of paddy is done go for sowing of lentil. Before sowing seed treatment with carbendazim @ 2g/kg should be done. Also treatment with Rhizobium culture is compulsory.
Ginger, Turmeric		Rhizome rot	Earthingup, weeding and drainingout of excess water. Turmeric In case of leaf yellowing due to rotting of rhizomes apply (Metalaxyl + Mancozeb) @2.5 g/ lit. of water as soil drenching.
Legume vegetable	Reproductive	Aphid, white fly	For Aphid control of Lab Lab bean apply Ash in case of lower infestation and in case of heavy infestation Thiomethoxam 0.3 SG @1g/3 lit.. of water may be applied.
Crucifers	Sowing of seedling		Treat the seeds with captan 50WP@3g/kg of seed before sowing. If rotting is observed on seedlings, then apply Cupperoxy. Chloride @ 3g/lit. of water.
Cucurbits	Fruiting	Fruit Fly Fruit & Vine rot White fly, Downy mildew	Collection and destruction of fruit fly infested fruits. Installation of pheromone trap @ 2/Bigha. Apply (Metalaxyl 8% + Mencozeb 64%) @ 2g/lit. of water or Azoxystrobin @1ml/lit. of water, if there is appearance of fruit rot or rotting of vines, mainly near soil surface. For white fly apply clothianidin 50 WDG@ 3g/10lit. of water. For downy mildew yellowish patches develop on upper

surface of the leaf, below which whitish fungal growth seen. In such symptom apply Azoxystrobin @ 1 mili/ lit. of water.

Animal Husbandry

Name of Animal	Disease	Control measures
Cattle and Buffalo	Non specific Diarrhoea, FMD	The cattle population are supposed to suffer from non-specific diarrhea during this, mid rainy season due to water borne infections. Any gut acting antibacterials along with remonetric preparation may lead to satisfactory result. FMD may also consider during this hot humid condition. Appropriate Vaccination coverage. Anthelminitics of course for animals in proper doses is also advisable for better production potentials.
Chicken	pox	Care for day old chiks with proper brooding, ventilation and management may arrangement reduce the mortality percent. A course of antibacterial for 3-5 days is recommended for pasting vent condition. Immunization against ND (Ranikhet) recommended as scheduled.

Gangetic Alluvial Zone

Crop	Stage	Advisory

Coastal Saline Zone

Crop	Stage	Advisory

Vindhyan Alluvial Zone

Crop	Stage	Variety	Advisory
General	--	--	
Paddy	Harvesting		There seems to possibility of no rain during coming five days i.e. 5 th December to 9 th December. Paddy harvesting, threshing & drying should be done during this time.
Lentil	Seed	--	If already harvesting of paddy is done go for sowing of lentil.

	sowing		Before sowing, seed treatment with carbendazim @ 2g/kg should be done. Also treatment with Rhizobium is compulsory.
Cucumber		Downey Mildew	To control Downey mildew of cucurbits spray Metaloxy + Mancozeb @ 2.5 g/lit. Of water.
Winter Vegetables	Seed sowing	--	Start sowing of winter vegetable seeds in the nursery bed. Before sowing the seed bed should be treated with fungicide, (copper-oxychloride) @ 4gram/liter of water to avoid damping off disease.
Winter Vegetables	Vegetative	Pest	Management of winter vegetable pest at early vegetative stage sprays Chlorpyriphos 50% + Cypermethin 5% @ 1.5 ml/liter of water.
Vegetables Crops	Early Stage	Insects	To management of early stage vegetables crops from insect pest attacks apply Chlorantaniliprole 0.4%GR @ 10gram sqm for soil application on the seed bed.
Betel vine			To protect the Boroz from cold weather covered the Boroz with paddy straw.
Cattle	--	--	To protect animals from sudden drop in temperature, keep the animals in a covered shed/area during the night.
Fishery	Fish Feed	--	Apply CIFAX @ 1lit/ha-m for three months as required to control ulcer disease of fish.

Undulating Red and Laterite Zone

Crop	Stage	Problem	Advisory

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.