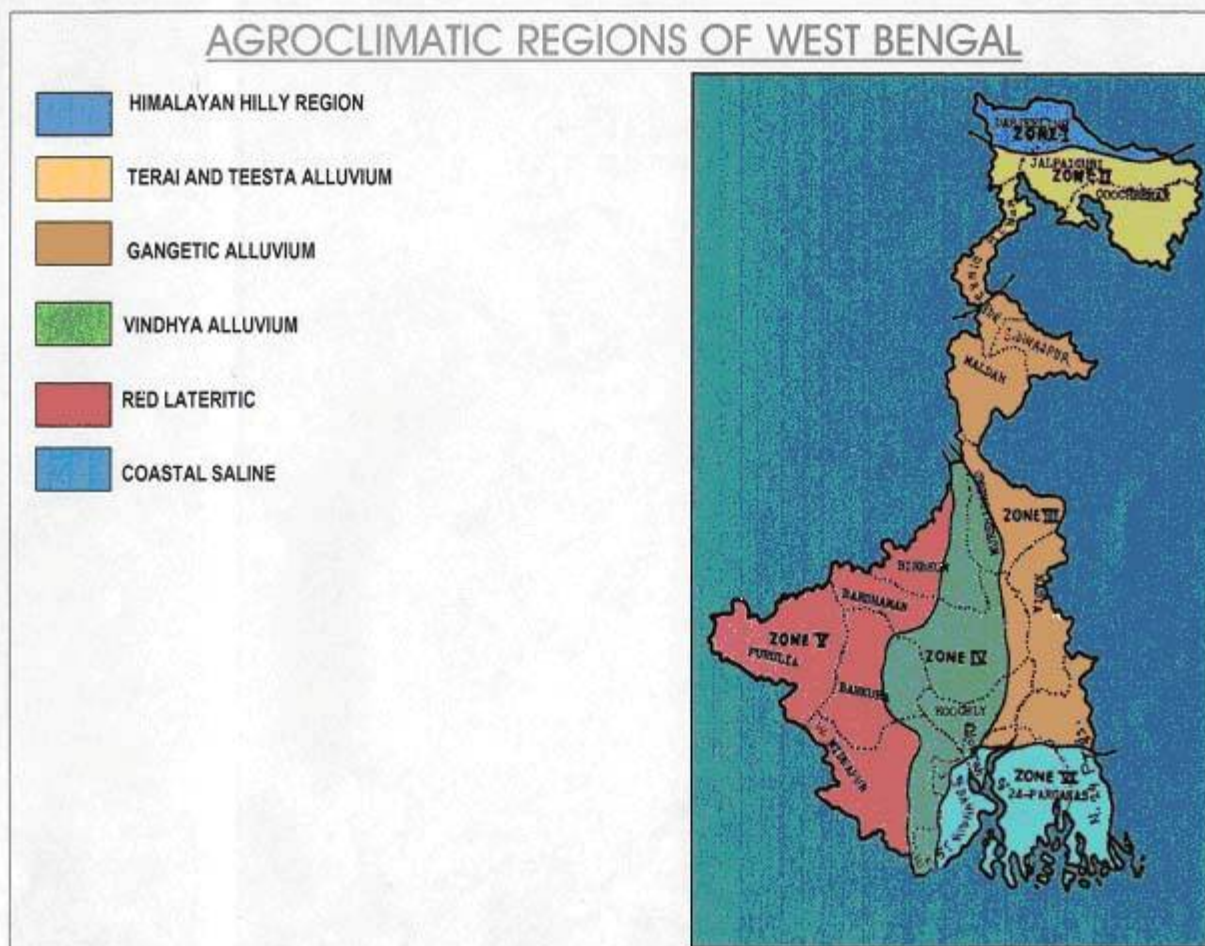


AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

For the period from 05th July '2017 to 09th July '2017



Issued on
Tuesday, 04th July' 2017

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, 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 and Birbhum	Kharagpur

Met sub-divisions of the state

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

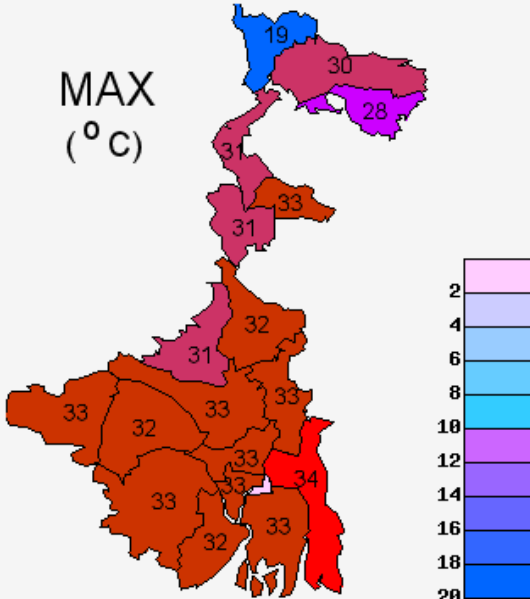
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad, Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Purba Midnapore, Kolkata, Burdwan.

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

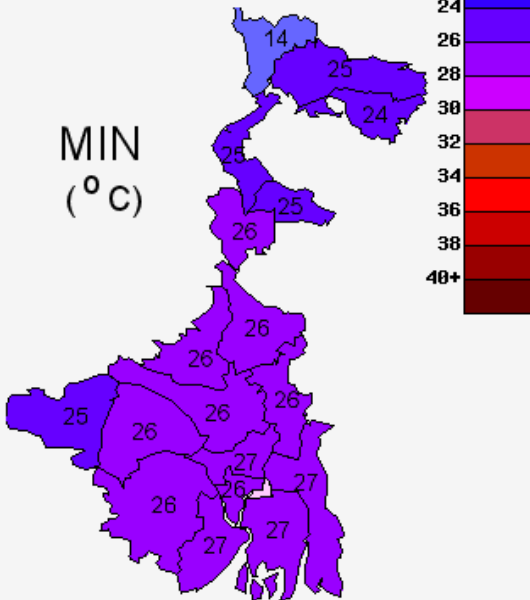
DAY 1 FORECAST

Valid up to :Wednesday 05th July 2017,0830 hrs IST

MAX
(°C)

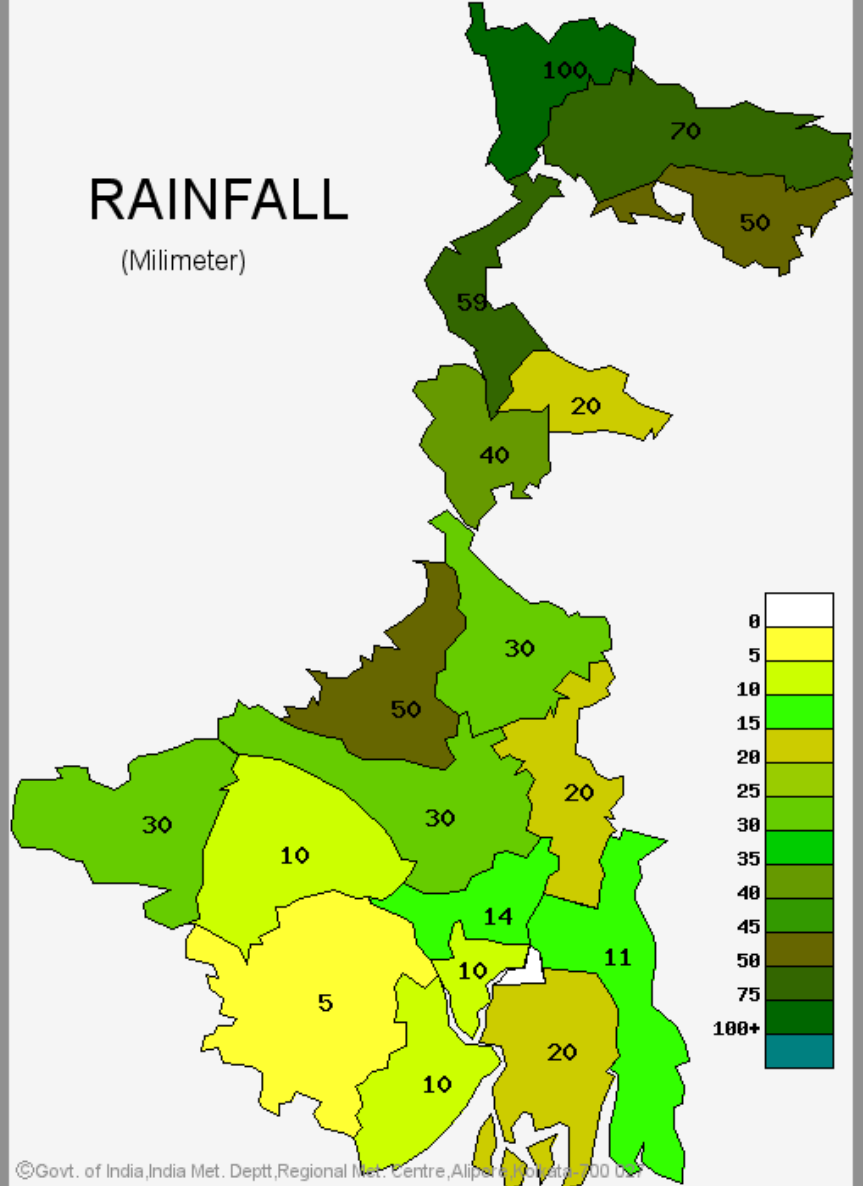


MIN
(°C)

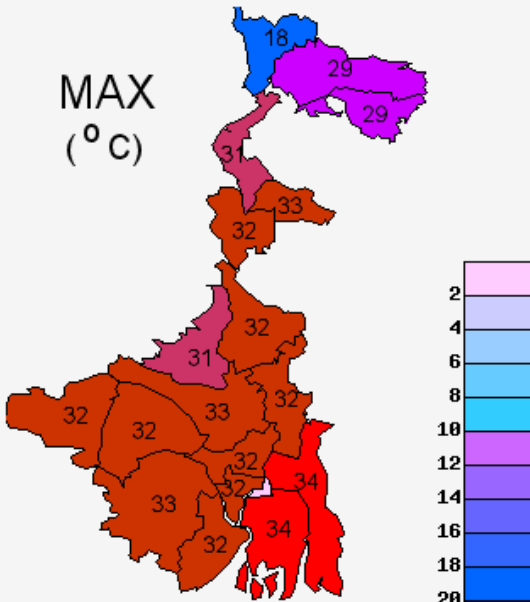


RAINFALL

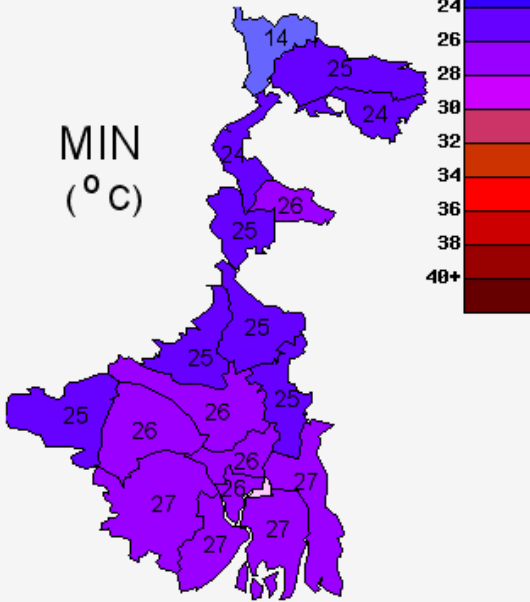
(Milimeter)



MAX
(°C)



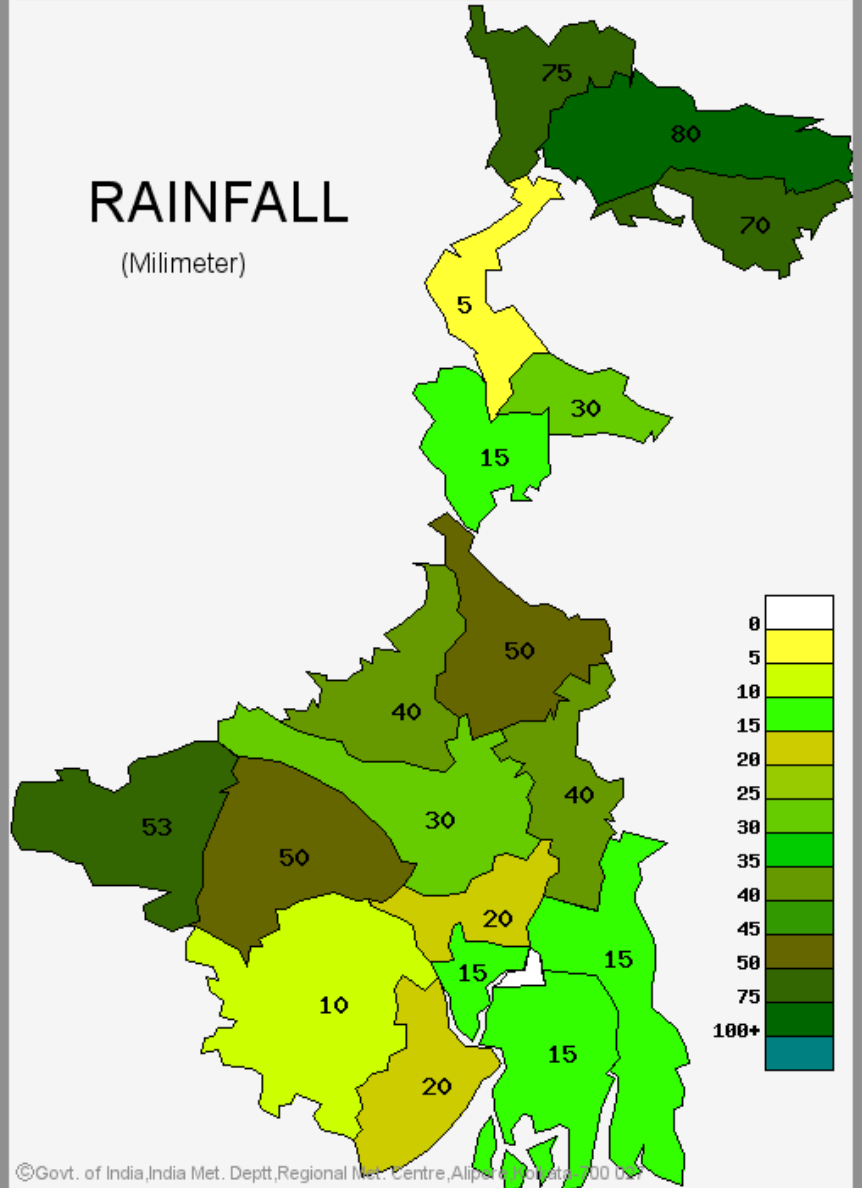
MIN
(°C)



DAY 2 FORECAST

Valid up to :Thursday 06th July 2017,0830 hrs IST

RAINFALL
(Milimeter)

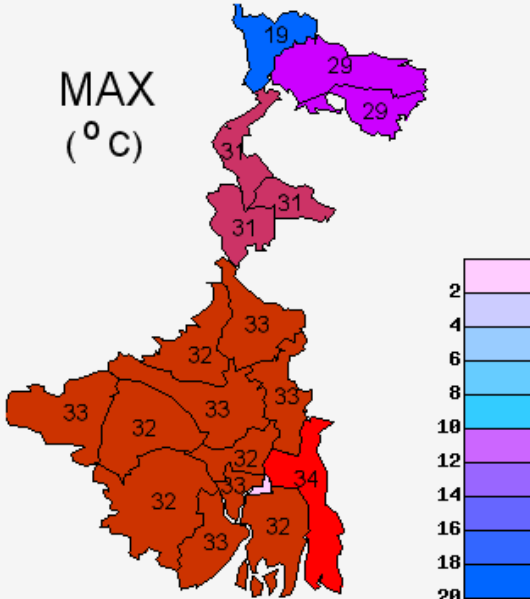


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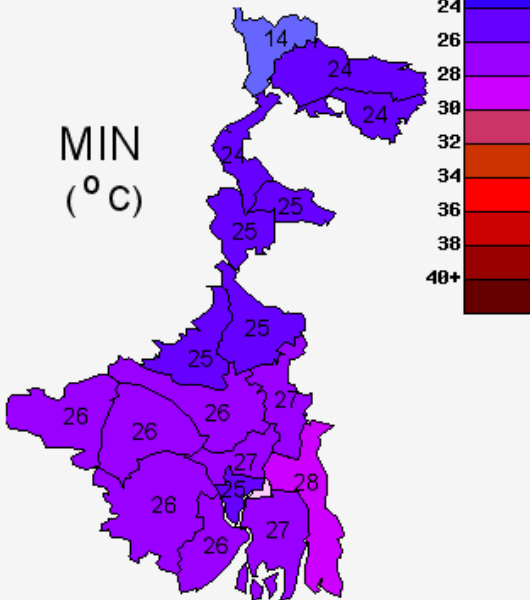
DAY 3 FORECAST

Valid up to :Friday 07th July 2017, 0830 hrs IST

MAX
(°C)

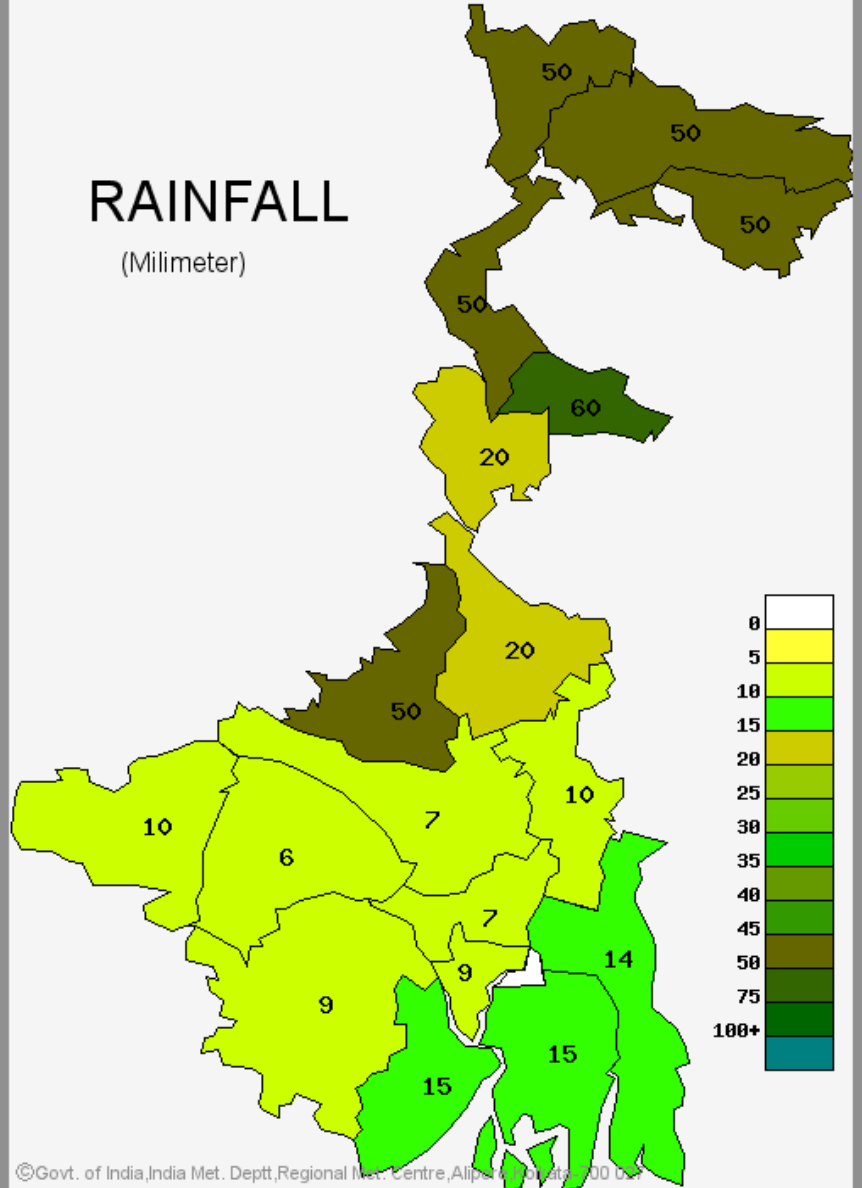


MIN
(°C)



RAINFALL

(Milimeter)

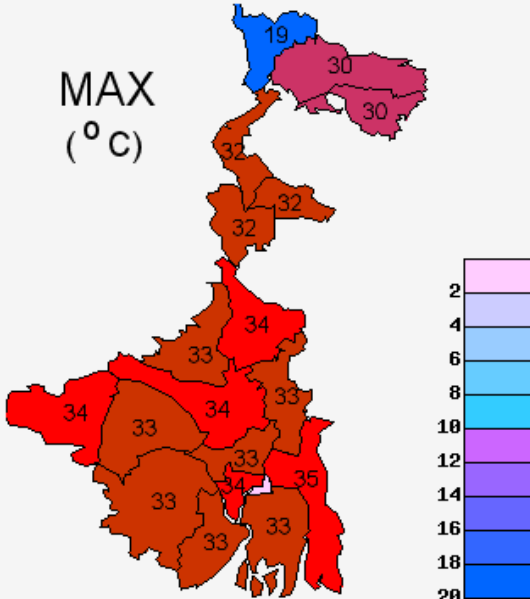


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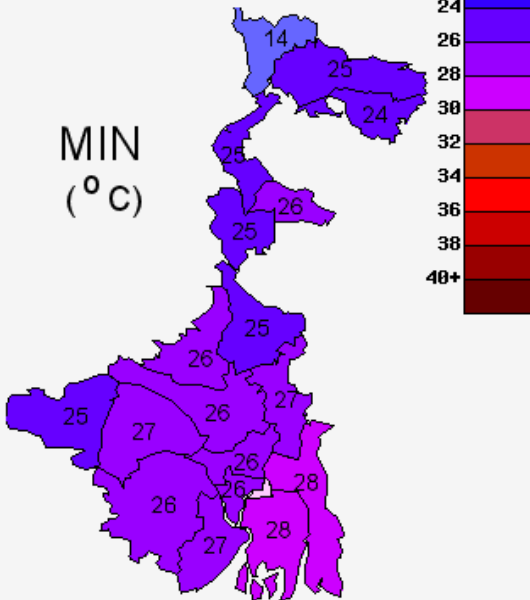
DAY 4 FORECAST

Valid up to :Saturday 08th July 2017,0830 hrs IST

MAX
(°C)

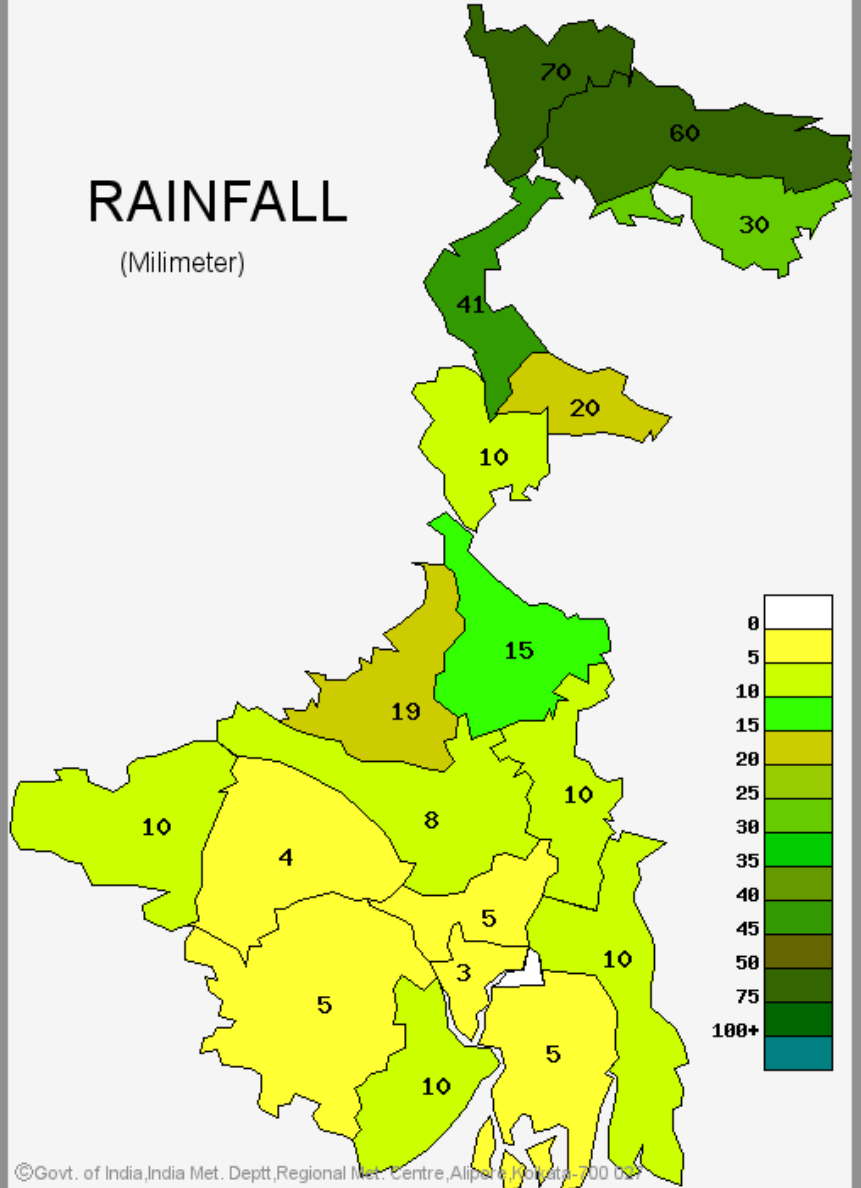


MIN
(°C)

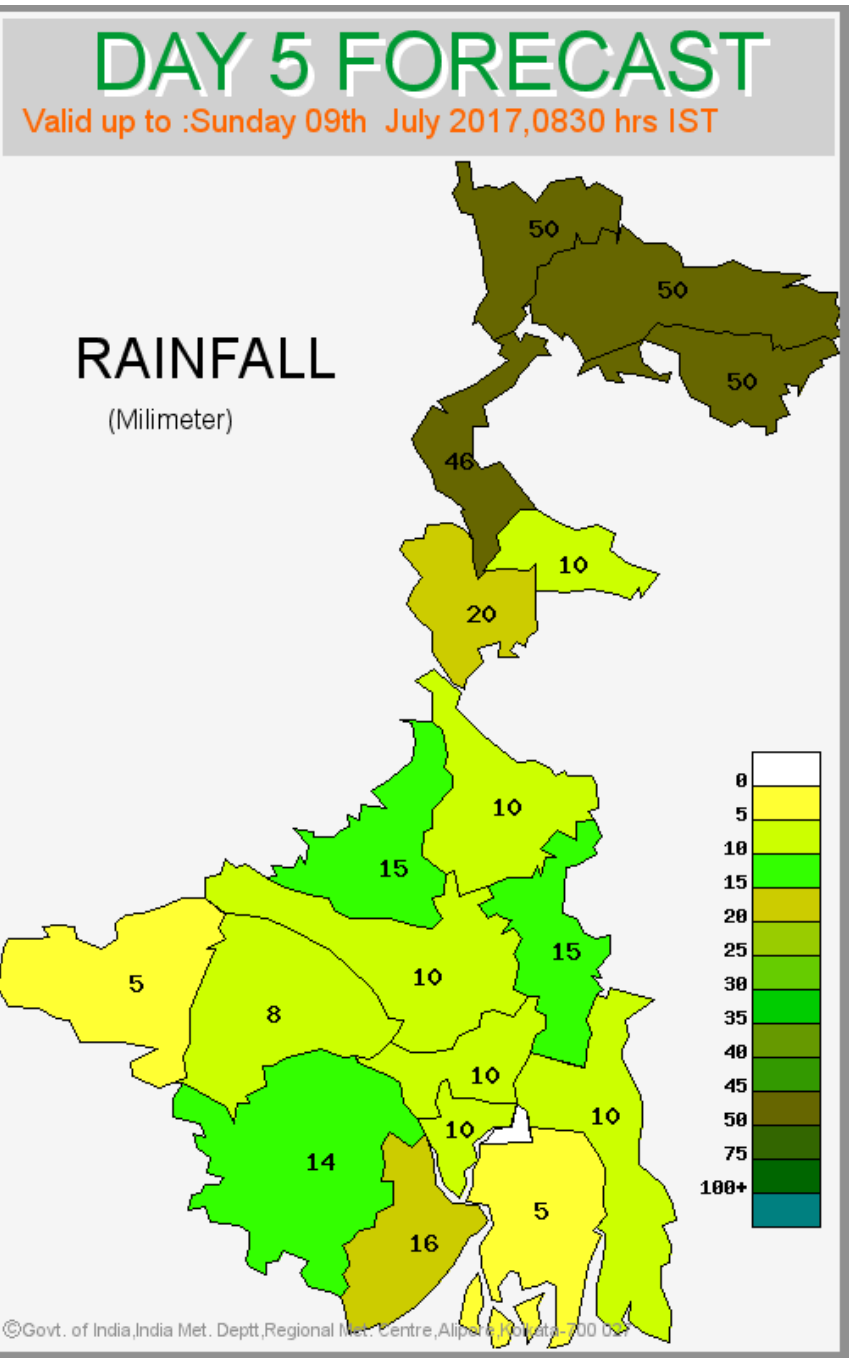
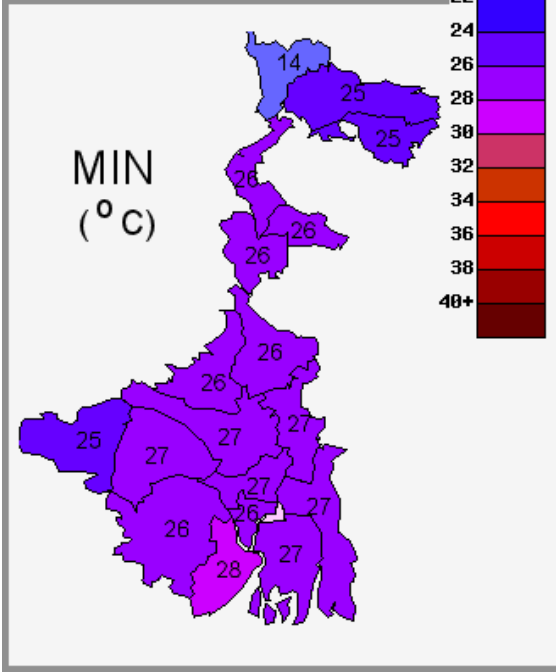
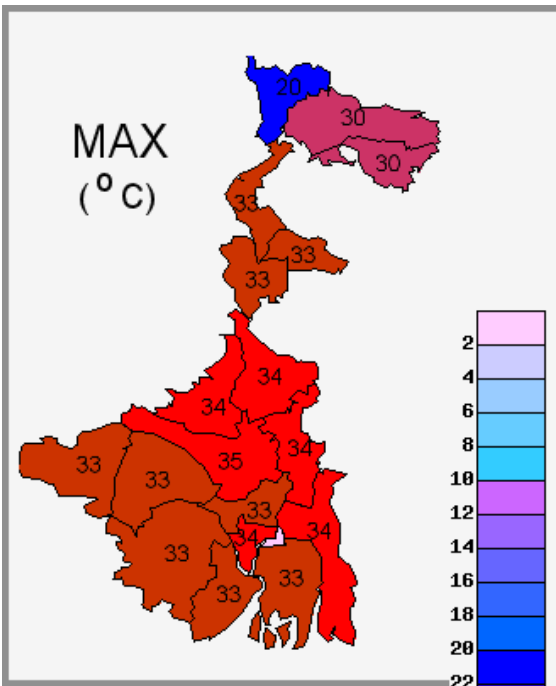


RAINFALL

(Milimeter)



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Part I: Weather

Districtwise significant Past Weather in different agroclimatic zones for the period 30/06/17 TO 03/07/17

District level Weather Forecast for different agroclimatic zones for the period 05/07/17 to 09/07/17

West Bengal

Northern Hill Zone

DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	--	--	--	--
Saturday	--			
Sunday	--			
Monday	--			

DARJEELING

Rainfall Possibilities of rather heavy to heavy rainfall on 7th, 9th July and rest of the day's heavy rainfall are expected. In next five days total rainfall of 345.0 mm is expected.

Cloud Cover Possibilities of mainly cloudy sky are expected for next five days.

Max. Temp. Maximum temperature is expected to be around 18-20°C.

Min. Temp. Minimum temperature is expected to be around 14-14°C.

Max. RH Maximum relative humidity is expected to be around 93-96%.

Min. RH Minimum relative humidity is expected to be around 83-85%.

Wind Wind mainly will blow from south-easterly on 5th and 7th July, easterly on 6th July and on 8th and 9th July from north-easterly direction with a speed of 5-9 km/hr is expected.

Terai-Teesta Alluvial Zone

COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	50.6	31-34	25-26	75-95
Saturday	14.6			
Sunday	0.2			
Monday	0.1			

COOCHBEHAR

➤

JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	53.4	32-33	25-26	80-95
Saturday	99.5			
Sunday	6.6			
Monday	40.6			

JALPAIGURI

•

NORTH DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	--	--	--	--
Saturday	--			
Sunday	--			
Monday	--			

NORTH DINAJPUR**Gangetic Alluvial Zone****BURDWAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	3.2	35-37	25-27	70-85
Saturday	0.0			
Sunday	3.0			
Monday	1.0			

BURDWAN**MURSHIDABAD**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	--	34-35	25-26	75-90
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	35-35	27-27	80-90
Saturday	0.0			
Sunday	23.2			
Monday	12.0			

NADIA**HOOGHLY**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	32-35	27-27	80-95
Saturday	0.0			
Sunday	2.0			
Monday	28.6			

HOOGHLY

HOWRAH

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	2.8	29-34	24-25	85-95
Saturday	2.8			
Sunday	33.7			
Monday	38.4			

HOWRAH**NORTH 24 PGS**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	1.4	31-35	26-28	75-90
Saturday	7.4			
Sunday	11.1			
Monday	40.5			

NORTH 24 PGS**Vindhyan Alluvial Zone****DAKSHIN DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	35-35	26-26	80-90
Saturday	0.0			
Sunday	--			
Monday	5.2			

DAKSHIN DINAJPUR

- Possibility of mainly cloudy sky on during coming five days.
- There seems to be possibility of moderate rainfall on 05th, 08th & 09th July but possibility of heavy rainfall on during coming 06th & 07th July.
- Wind from North-easterly, North-westerly, South-easterly and Easterly direction with an average speed of 03-08 Km/hr. is expected.
- Maximum temperature is expected to be around 31-33⁰C and minimum temperature is expected to be 25-26⁰C.
- Maximum and minimum relative humidity is expected to be 97-99% and 73-91%, respectively.

MALDA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	1.1	31-35	27-28	55-90
Saturday	0.0			
Sunday	2.3			
Monday	42.0			

MALDA

- Possibility of mainly cloudy sky on during coming five days.
- There seems to be possibility of possibility of heavy rainfall on during coming 05th July but possibility of moderate rainfall on during coming 06th, 07th, 08th & 09th July.
- Wind from Southerly and South-easterly direction with an average speed of 03-13 Km/hr. is expected.
- Maximum temperature is expected to be around 31-33⁰C and minimum temperature is expected to be 25-26⁰C.
- Maximum and minimum relative humidity is expected to be 94-98% and 68-85%, respectively.

Coastal Saline Zone

PURBA MIDNAPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	10.4	30-35	26-29	70-95
Saturday	0.0			
Sunday	2.9			
Monday	0.2			

PURBA MIDNAPUR

- Light rainfall is predicted in the next five days.
- Sky will be mainly cloudy in the next five days.
- Wind speed will be 6-16 km/hr. and the predominant wind direction will be Southwesterly to North-Westerly.
- Maximum temperature is expected to be around 32.0°C-33.0°C and minimum temperature is likely to be around 26.0°C-28.0°C.
- Maximum and minimum relative humidity will be in the range of 81%-88% and 59%-70%.

SOUTH 24-PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	19.1	30-34	26-28	80-98
Saturday	29.2			
Sunday	5.3			
Monday	15.0			

SOUTH 24-PGS

- Light rainfall is predicted in the next five days.
- Sky will be mainly cloudy in the next five days.
- Wind speed will be 4-12 km/hr. and the predominant wind direction will be Southerly to Westerly.
- Maximum temperature is expected to be around 32.0°C-33.0°C and minimum temperature is likely to be around 27.0°C-28.0°C.
- Maximum and minimum relative humidity will be in the range of 76%-85% and 48%-60%.

Undulating Red and Laterite Zone**PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.4	29-33	26-28	75-95
Saturday	18.6			
Sunday	2.3			
Monday	6.6			

PASCHIM MIDNAPORE

- Light to moderate rainfall will occur on Wednesday, Thursday, Friday and Saturday. Partly cloudy sky will be present for coming four days.
- Predominant wind direction will be Southwesterly. Wind with a speed of 3-10 km per hour will blow for coming five days.
- Relative humidity maximum will be 80-90% and minimum will be 49-61%.
- Maximum temperature will be 32-33°C and minimum will be 26-27°C

BANKURA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	8.4	34-35	26-27	75-95
Saturday	2.5			
Sunday	3.9			
Monday	7.0			

BANKURA

- Light rainfall will occur on Wednesday, Friday and Saturday. Heavy rainfall will occur on Thursday. Partly cloudy sky will be present for coming four days.
- Predominant wind direction will be Southwesterly. Wind with a speed of 7-11 km per hour will blow for coming five days.
- Relative humidity maximum will be 83-94% and minimum will be 49-67%
- Maximum temperature will be 32-33°C and minimum will be 26-27° C.
-

PURULIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	--	32-35	25-25	65-90
Saturday	--			
Sunday	0.1			
Monday	0.1			

PURULIA

- Moderate rainfall will occur on Wednesday, Friday and Saturday. Heavy rainfall will occur on Thursday. Partly cloudy sky will be present for coming four days.
- Predominant wind direction will be Southwesterly. Wind with a speed of 7-11 km per hour will blow for coming five days.
- Relative humidity maximum will be 83-89% and minimum will be 52-71%.
- Maximum temperature will be 32-34°C and minimum will be 25-26°C.
-

BIRBHUM

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	33-35	26-27	70-95
Saturday	0.0			
Sunday	27.2			
Monday	16.2			

BIRBHUM

- Moderate heavy rainfall will occur on Wednesday and Friday. Moderate rainfall will occur on Thursday and Saturday. Cloudy sky will be present for coming four days.
- Predominant wind direction will be Southeasterly. Wind with a speed of 8-13 km per hour will blow for coming five days.
- Relative humidity maximum will be 86-93% and minimum will be 52-77%.
- Maximum temperature will be 31-34°C and minimum will be 25-26° C.
-

Andaman & Nicobar Islands

ANDAMAN

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.1	30-34	23-26	80-95
Saturday	2.5			
Sunday	11.1			
Monday	0.1			

ANDAMAN**North & Middle Andaman**

Cloudy weather with moderate to heavy rainfall is likely to occur during next five days. In North and Middle Andaman 105 mm of rainfall is expected during this period. The maximum temperature in North and Middle Andaman will be 30 to 31 °C with minimum temperature of 24 to 25 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 77 to 83 % and 73 to 77 % respectively in North and Middle Andaman. Wind speed of 28 to 36 km/h is expected from South Westerly direction.

For South Andaman

Cloudy weather with moderate to heavy rainfall is likely to occur during next five days. In South Andaman 85 mm of rainfall is expected during this period. The maximum temperature in South Andaman will be 31 to 32 °C with minimum temperature of 24 to 26 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 77 to 81 %, and 73 to 77 % respectively in South Andaman. Wind speed of 25 to 35 km/h is expected from South Westerly direction.

NICOBAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	13.6	30-33	22-27	80-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NICOBAR

Cloudy weather with light to moderate rainfall is likely to occur during next five days. In Nicobar Islands 35 mm of rainfall is expected during this period. The maximum temperature will be 31 °C with minimum temperature of 25 °C, whereas the maximum and minimum relative humidity is expected to be 78 to 82 %, and 72 to 77 %, respectively in Nicobar Islands. Wind speed of 21 to 32 km/h is expected from South Westerly direction.

Part II: Agroclimatic zonewise Agricultural/Agro meteorological Advisories

West Bengal

Northern Hill Zone

<i>MAJOR CROPS</i>	<i>STAGE</i>	<i>PEST & DISEASES</i>	<i>ADVISORY</i>
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General	-	-	As rather heavy to heavy rainfall (7 th and 9 th July) and heavy rainfall (5 th , 6 th and 8 th July) has been forecasted for coming five days, so proper drainage system should be maintained in the field.
Large cardamom	Planting and Capsule development Stage	-	Planting should be continued and field should be kept weed free. Disease plants should be removed from the plantation.
Mandarin Orange	New plantation and Fruit development stage	-	Care should be taken to avoid the water stagnation at the base of the plant as total 345 mm rainfall has been forecasted for coming five days and spraying of insecticide and fungicide should be avoided during the rainfall.
Cymbidium Orchid	Vegetative stage	-	During day time open the side net for proper air ventilation. Also the top shade net is to be closed during afternoon to reduce the temperature of the orchid poly house.

Vindhyan Alluvial Zone

Crop	Stage	Pest/ Disease	Advisory
General	Transplanting	--	There seems to be possibility of moderate to heavy rainfall during coming five days, start the transplanting of kharif rice with the help of rain water.
Paddy	seedling	Rice stem borer, Gall midge & sucking Pest	To control the infestation of gall midge in rice seedling treated with Furadon 3G @250-300gram/100 sqm area of seedlings. Prevention of early stage infestation of rice stem borer, gall midge & sucking pest complex to treated the main field with Furadon3G @ 4kg/bigha during land preparation.
Turmeric & Ginger	Ear-thing up	--	During this period earthing up may be done in the field of Turmeric and Ginger field with the application of appropriate dose of fertilizer.
Cucurbits	Fruit development	Fruit fly	Use sex pheromone trap @ 6-7 trap/bigha, to control the fruit fly in cucurbitaceous vegetables.
Cattle	---	-----	During this weather condition the animals should be protected against illness caused due to the heat and damp weather.
Fishery	---	Fish pond	Apply supplementary feed (Mixture of Rice bran & Mustard oil cake in 1:1) @ 10-8%, 8-6% & 6-4% of the total fish stocked for 1 st month, 2 nd month and 3 rd month in the raising pond.

Terai-Teesta Alluvial Zone

General			
Agriculture and Horticulture			
Main Crops	Stage	Pest & Diseases	Advisory
Cucurbits			
Animal Husbandry and Fishery			
Name of Animal	Disease	Control measures	
Goat			

Gangetic Alluvial Zone

CROP	STAGE	PROBLEM	ADVISORY
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Coastal Saline Zone

Crop	Stage	Disease pest	Advisory
Aman wet seeded paddy	--Start to sow seed in the seed bed for Aman paddy n(0.3 decimal area per bigha) --Choose some variety for medium duration MTU-7029, MTU1001, Pratiksha etc. and for long duration CR1017, CR1018, Cr1019, Sabita etc. --Before sowing apply urea@10kg/ bigha, SSP@31kg/bigha and MOP@8kg/bigha as basal dose --Treat the seed for wet seed bed with 1.5 liter water+1.5g MEMC for per 1 kg seed (soaking for 8-10 hours)or after selection of good quality of seed by dipping the seed with 17% NaCl solution and washing with plain water , soak the seeds with Carbendazin@2g/liter of water and then after proper germination sow the seeds --Seeds may be treated by Streptocyclin@1g/10liter of water (soaking for 30minutes) for preventing bacterial wilt --Seed rate should be followed for fine paddy @40kg/bigha, for medium fine@45kg/bigha and for bold variety@50kg/bigha		
Seed bed Aman paddy	--Seed bed must be prepared near water source like river or canal --Where nursery bed made far from water source maintain lifesaving irrigation in the seed bed		
Betel vine	Green leaf stage	Phytophthora root rot and chital disease	--For Phytophthora root rot apply 1% Bordeaux mixture at the base at 1 month interval --For Chitla apply 0.5% Bordeaux mixture at 15-20 days interval --Maintain free air movement inside the garden

Undulating Red and Laterite Zone

CROP	STAGE	PROBLEM	ADVISORY
Paddy	Upland-Seedling emergence/Tillering Lowland-Nursery Main field preparation	--- --- ---	Give proper bunding to hold the water in the field. Nursery should be protected with proper drainage channels to remove excess water from the field. Main field preparation has to be carried out
Fishery	Fingerling of carp	Low Oxygen supply	<ul style="list-style-type: none"> • This is the time of putting the fingerling of carp in the pond. • Farmers who have tiger prawn cultivation supply food during night. • If there is oxygen deficiency then stir the pond water by wheel. • Apply lime for cleaning the water.
Ladies finger	Fruit development	Fruit borer	Collect and destroy the affected fruits. Spray Neem oil @30ml/lit at clear weather condition.
General	Crop coverage is good and moderately dry condition experienced in Bankura district. Light rainfall will occur on Wednesday, Friday and Saturday. Heavy rainfall will occur on Thursday. So, farmers are advised to stop the irrigation and provide proper drainage channels to the standing crops.		

Andaman & Nicobar Islands

GENERAL ADVISORY

FOR NORTH MIDDLE ANDAMAN

Crop/Livestock	Stage	Weather based agro advisories
Rice	Field Preparation	<ul style="list-style-type: none"> • Prepare main field of rice by leveling and cleaning of bunds and maintain bund height at 25 to 30 cm.
Vegetable	All	<ul style="list-style-type: none"> • Provide drainage facility in vegetable field as good amount of rainfall is expected.
Fish	Breeding	<ul style="list-style-type: none"> • Do breeding of carps by using hormones during rainy days and prepare nursery ponds for stocking spawns.
Pig	Piglet	<ul style="list-style-type: none"> • Keep the piglet under brooding condition by providing light as moderate to heavy rainfall is expected during next five days.

FOR SOUTH ANDAMAN

Crop/Livestock	Stage	Weather based agro advisories
Rice	Field Preparation	<ul style="list-style-type: none"> • Prepare main field of rice by leveling and cleaning of bunds and maintain bund height at 25 to 30 cm.
Vegetable	All	<ul style="list-style-type: none"> • Provide drainage facility in vegetable field as good amount of rainfall is expected.
Fish	Breeding	<ul style="list-style-type: none"> • Do breeding of carps by using hormones during rainy days and prepare nursery ponds for stocking spawns.
Pig	Piglet	<ul style="list-style-type: none"> • Keep the piglet under brooding condition by providing light as moderate to heavy rainfall is expected during next five days.

FOR NICOBAR

Crop/Livestock	Stage	Weather based agro advisories
Coconut	All	<ul style="list-style-type: none"> • Clean the crown of coconut tree and the garden cut them into pieces and go for composting.
Poultry	All	<ul style="list-style-type: none"> • Provide clean and hygienic water treated with potassium permanganate (1 ppm) to the poultry birds to avoid gastrointestinal infection.

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