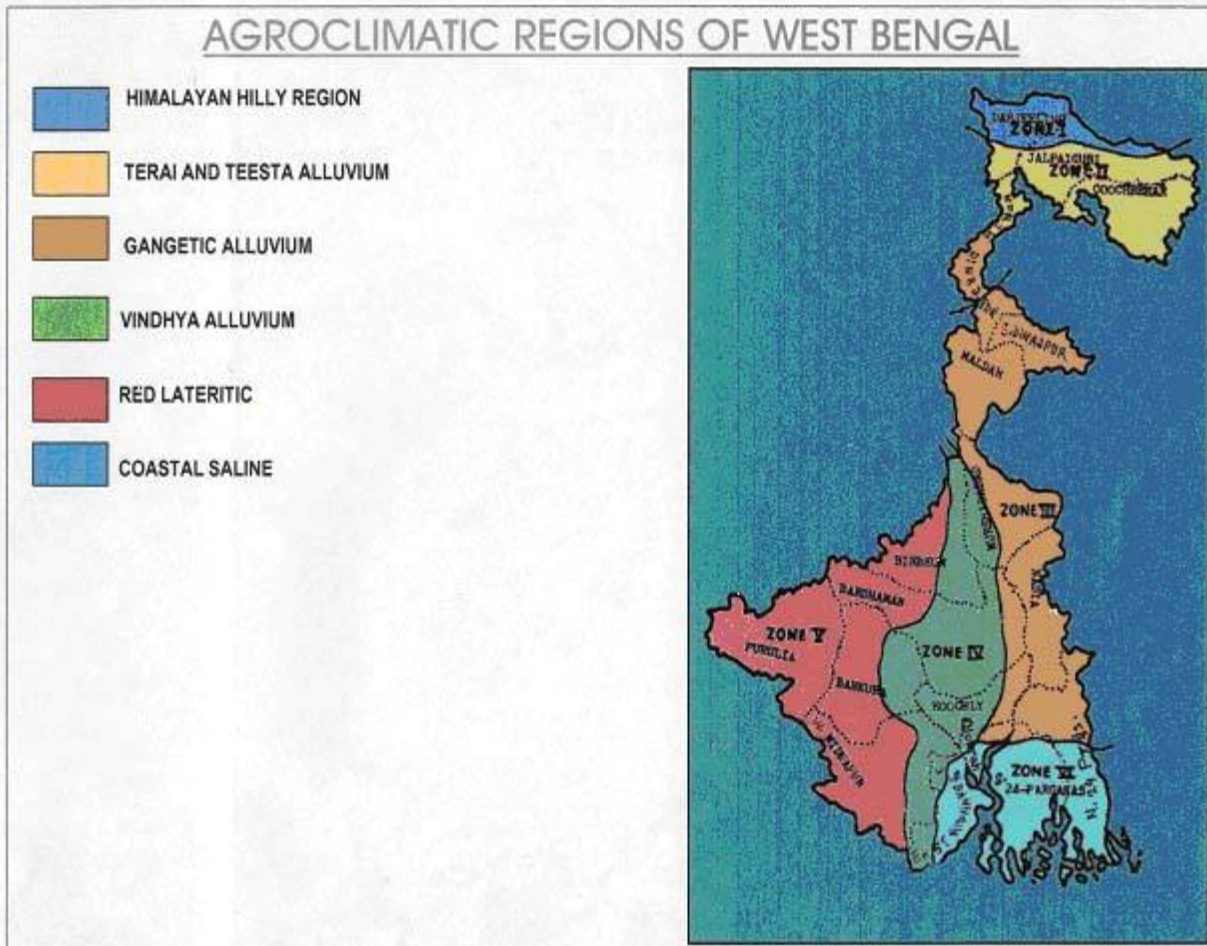


# AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

For the period from 24<sup>th</sup> October '2018 to 28<sup>th</sup> October '2018



Issued on  
**Tuesday, 23<sup>rd</sup> October '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	<b>Northern Hill Zone</b>	Darjeeling	Kalimpong
2	<b>Terai-Teesta Alluvial Zone</b>	Jalpaiguri, Coochbehar and Uttar Dinajpur.	Pundibari
3	<b>Gangetic Alluvial Zone</b>	Murshidabad, Nadia, North 24 Parganas, Howrah, Hooghly and Burdwan	Kalyani
4	<b>Vindhyan Alluvial Zone</b>	Dakhin Dinajpur, Malda	Majhian
5	<b>Costal Saline Zone</b>	South 24 Parganas and Purba Midnapore	Kakdeep
6	<b>Undulating Red and Laterite Zone</b>	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):

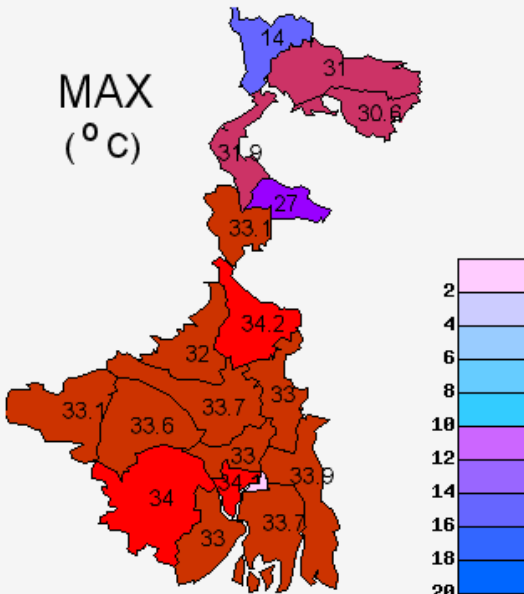
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad, Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Purba Midnapore, Kolkata, Burdwan.

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

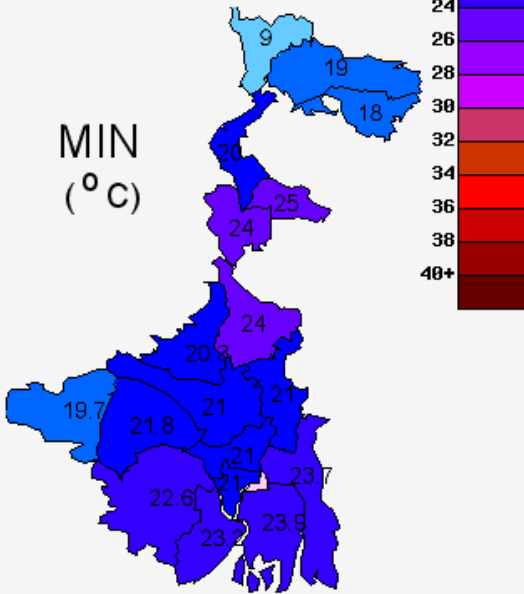
# DAY 1 FORECAST

Valid up to :Wednesday 24th October 2018,0830 hrs IST

MAX  
(°C)

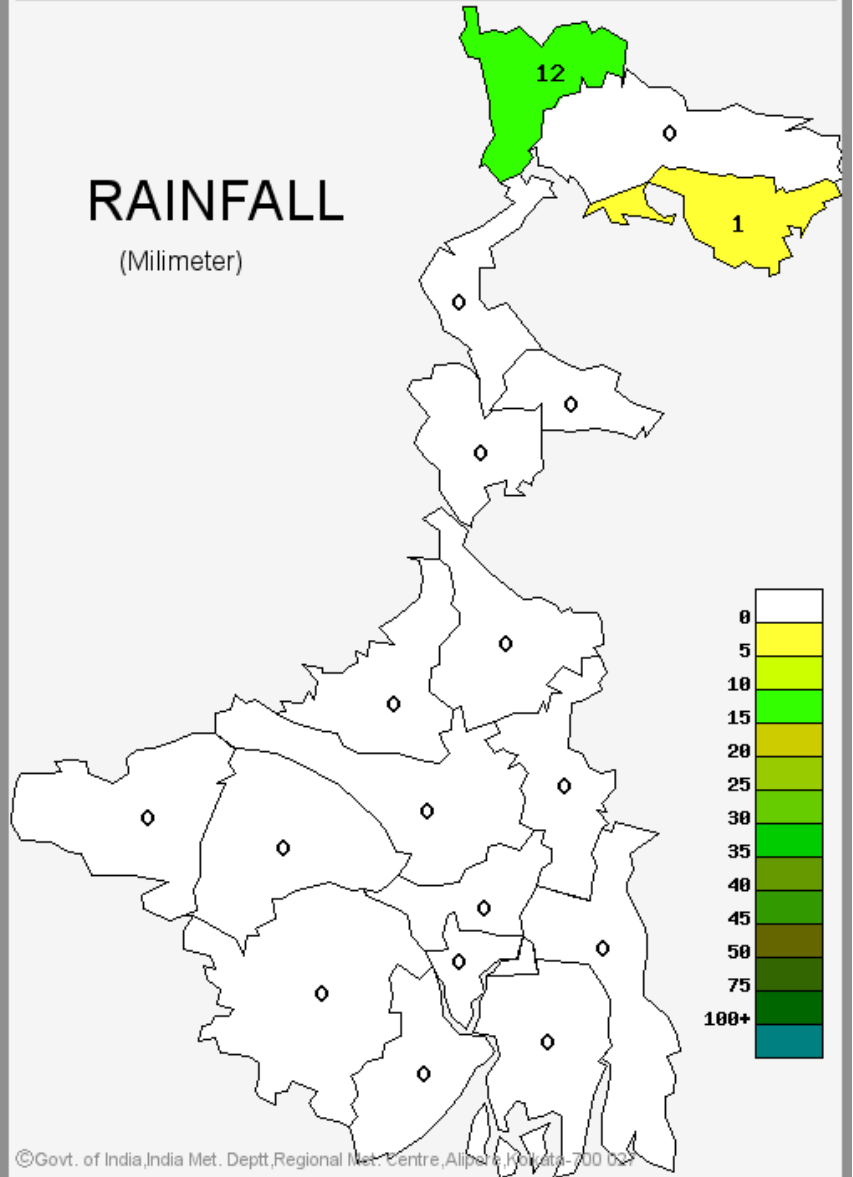


MIN  
(°C)



## RAINFALL

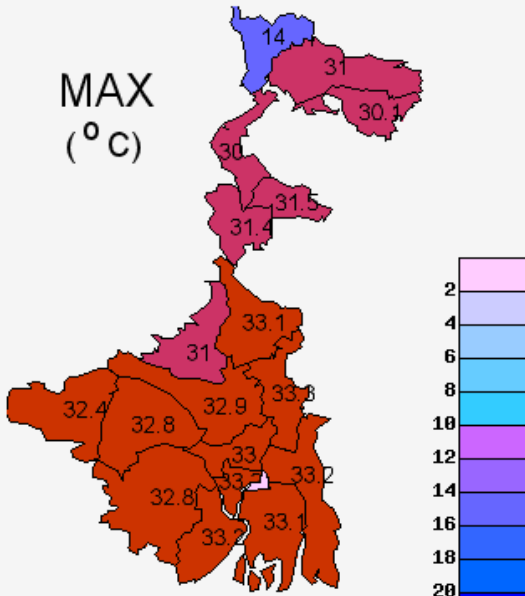
(Milimeter)



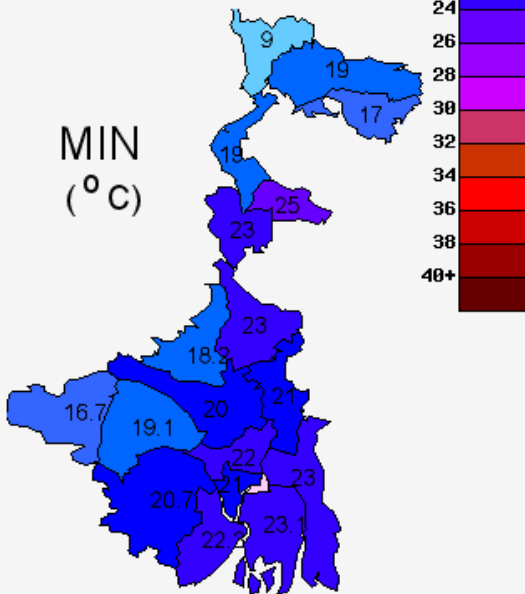
# DAY 2 FORECAST

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MAX  
(°C)

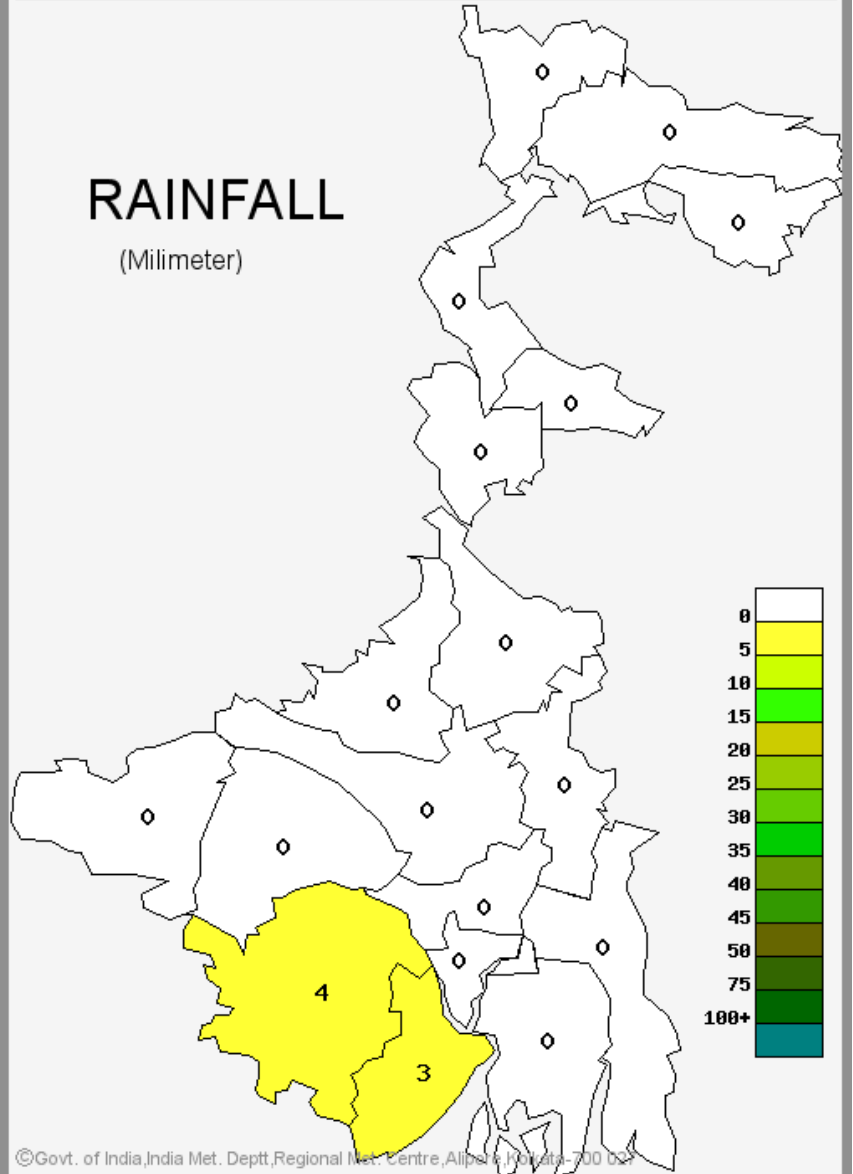


MIN  
(°C)



## RAINFALL

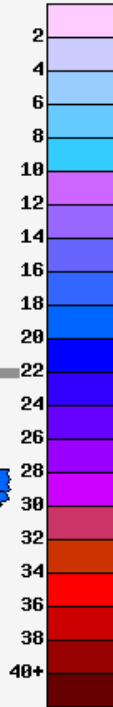
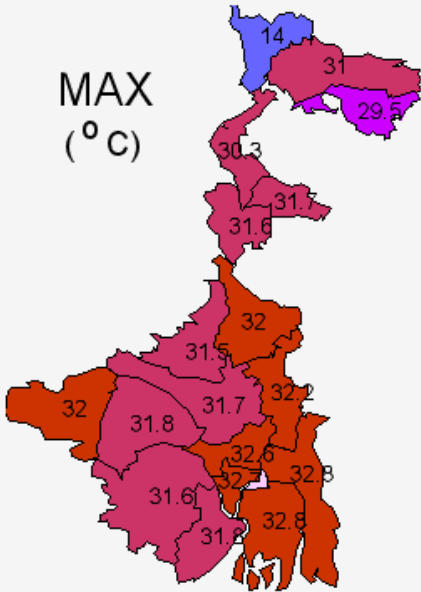
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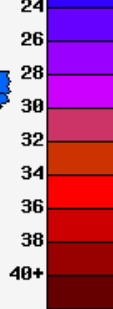
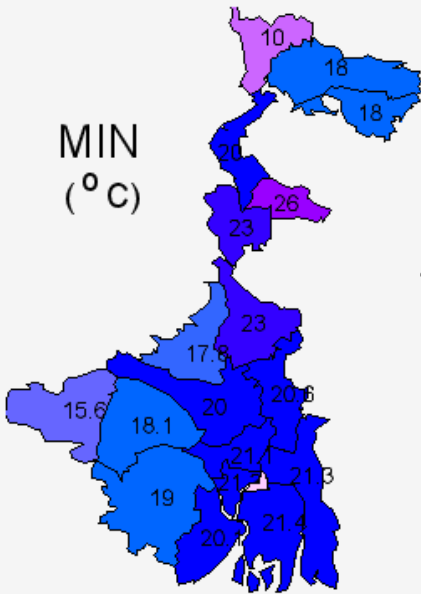
# DAY 3 FORECAST

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MAX  
(°C)

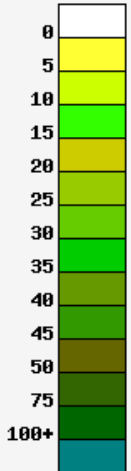
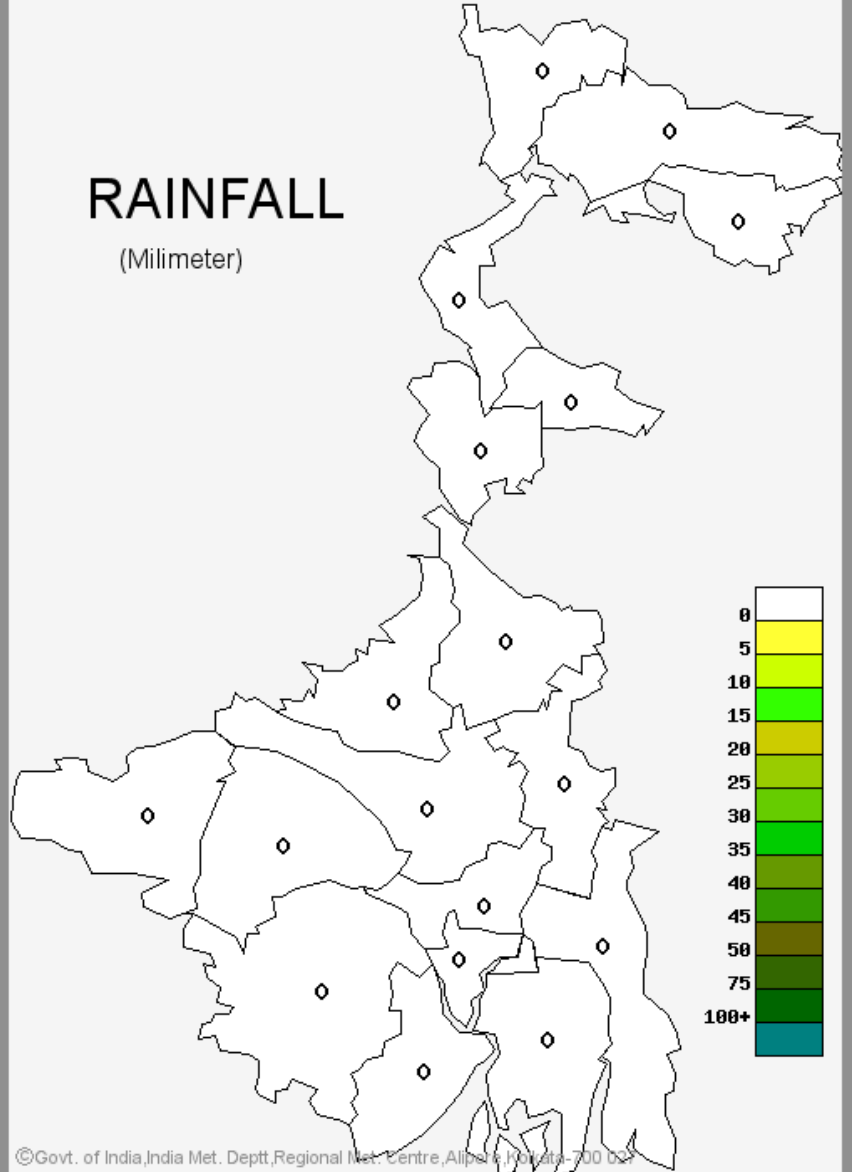


MIN  
(°C)



## RAINFALL

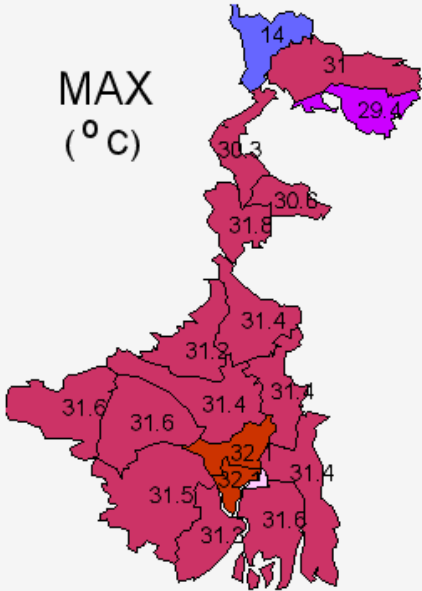
(Milimeter)



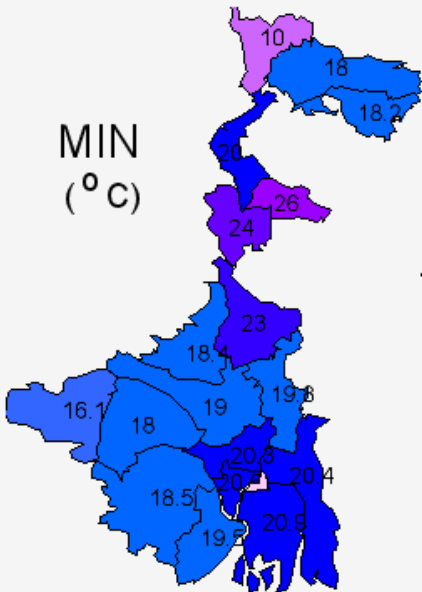
# DAY 4 FORECAST

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MAX  
(°C)

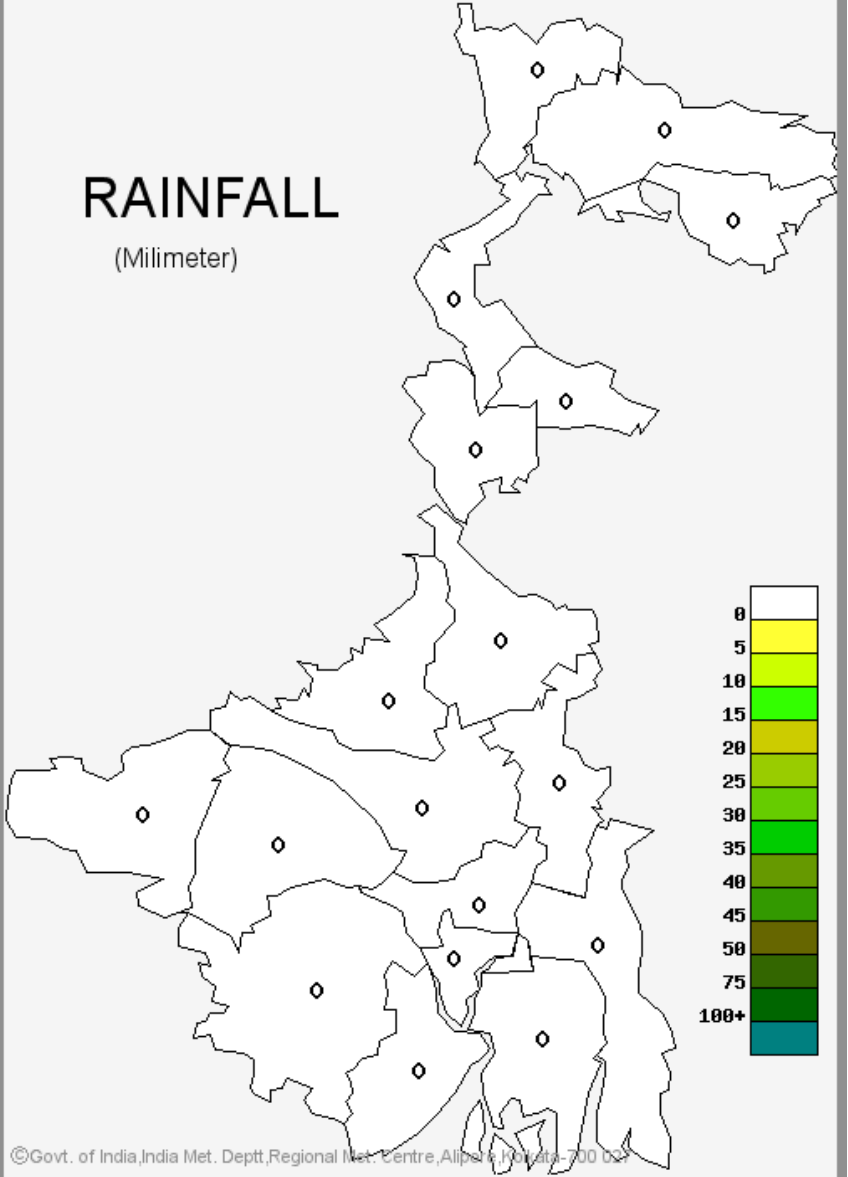


MIN  
(°C)



## RAINFALL

(Milimeter)

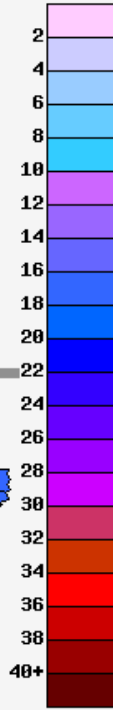
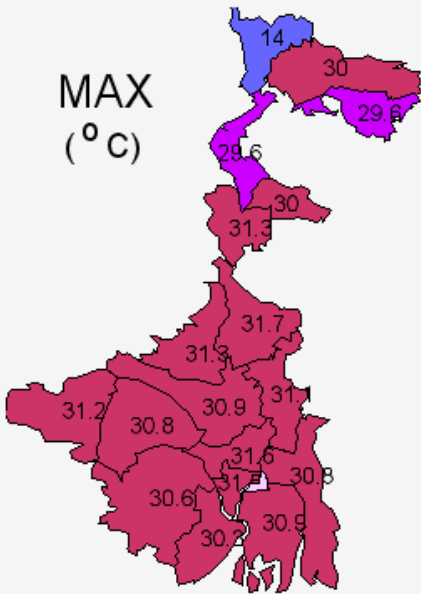


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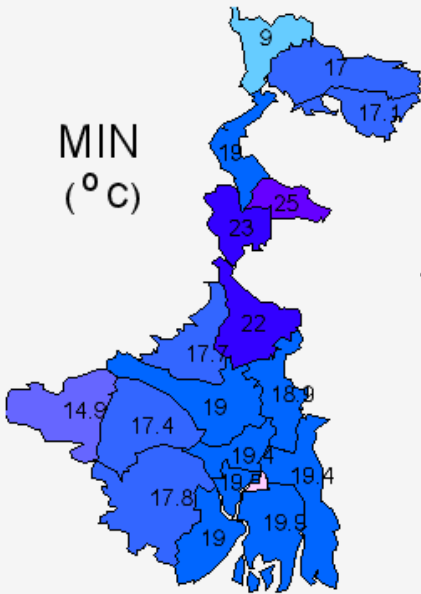
# DAY 5 FORECAST

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MAX  
(°C)

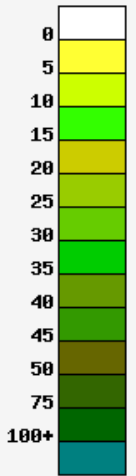
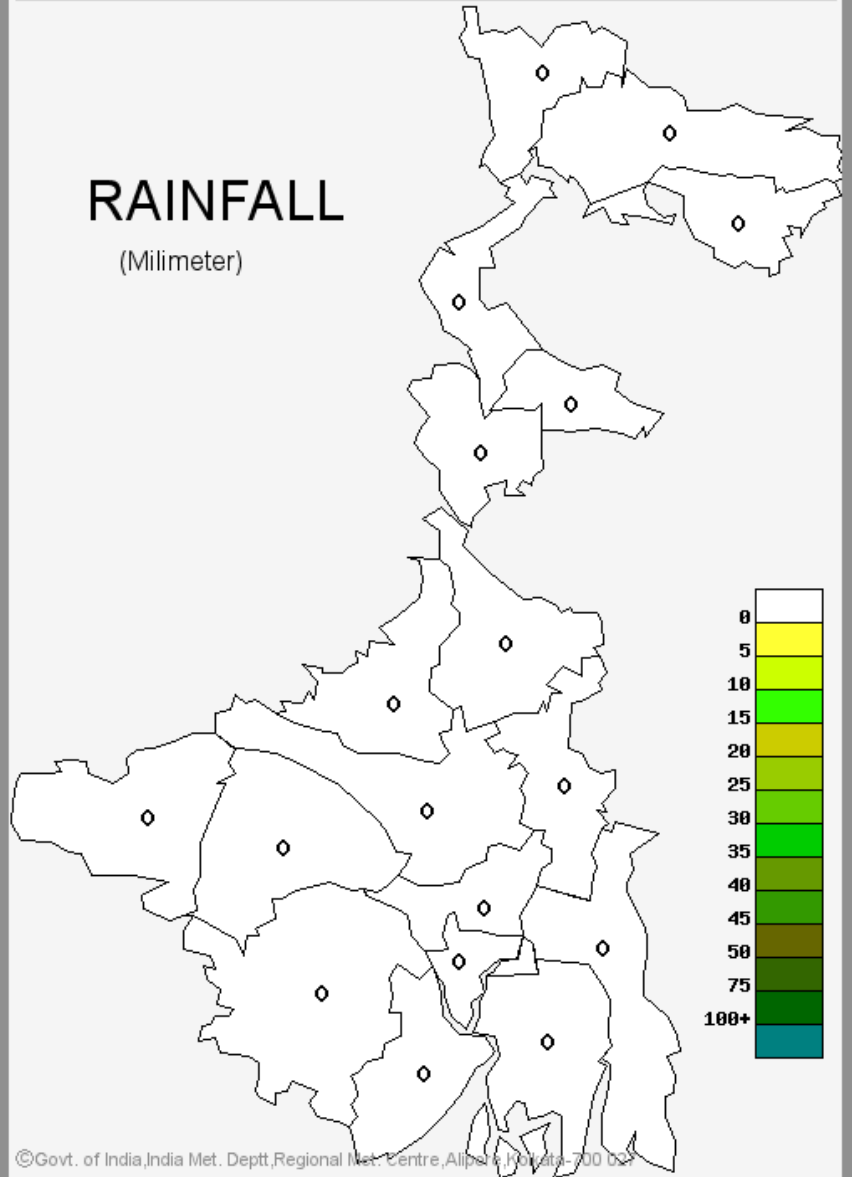


MIN  
(°C)



## RAINFALL

(Milimeter)





## Part I: Weather

*Districtwise significant Past Weather in different agroclimatic zones for the period 19/10/18 to 22/10/18*

*District level Weather Forecast for different agroclimatic zones for the period 24/10/18 to 28/10/18*

### West Bengal

#### Northern Hill Zone

##### DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.8	15-22	9-16	89-95
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

##### DARJEELING

Rainfall	Possibilities of moderate rainfall on 24 <sup>th</sup> October and rest of the no rainfall are expected. In next five days total rainfall of 12.0 mm is expected.
Cloud Cover	Possibilities clear sky is expected for coming five days.
Max. Temp.	Maximum temperature is expected to be around 14 to 14°C.
Min. Temp.	Minimum temperature is expected to be around 9 to 10°C.
Max. RH	Maximum relative humidity is expected to be around 56- 79%.
Min. RH	Minimum relative humidity is expected to be around 31-47%.
Wind	Wind mainly will blow from south-easterly direction with a speed of 2.0-2.2 km/hr is expected for coming five days.

### Terai-Teesta Alluvial Zone

##### COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-29	18-19	83-87
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

##### COOCHBEHAR

- Clear sky will remain from 24<sup>th</sup> to 28<sup>th</sup> October.
- No rainfall will occur from 24<sup>th</sup> to 28<sup>th</sup> October.
- Wind north easterly from 24<sup>th</sup> to 27<sup>th</sup> October and easterly on 28<sup>th</sup> October, average speed of 2-2 km/hr. is expected.
- Maximum temperature is expected to be around 29-31°C and minimum temperature is expected to be 17-18°C.
- Maximum and minimum relative humidity is expected to be 57-81% and 40-53% respectively.

##### JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	4.9	28-28	20-20	78-85
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

##### JALPAIGURI

- Clear sky will remain from 24<sup>th</sup> to 28<sup>th</sup> October.
- No rainfall will occur from 24<sup>th</sup> to 28<sup>th</sup> October.
- Wind north easterly from 24<sup>th</sup> to 27<sup>th</sup> October and easterly on 28<sup>th</sup> October, average speed of 2-2 km/hr. is expected.
- Maximum temperature is expected to be around 30-31°C and minimum temperature is expected to be 17-19°C.
- Maximum and minimum relative humidity is expected to be 51-74% and 32-50% respectively.



**NORTH DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	31-32	20-21	81-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

**NORTH DINAJPUR**

- Clear sky will remain from 24<sup>th</sup> to 28<sup>th</sup> October.
- No rainfall will occur from 24<sup>th</sup> to 28<sup>th</sup> October.
- Wind north easterly from 24<sup>th</sup> to 28<sup>th</sup> October, average speed of 1-2 km/hr. is expected.
- Maximum temperature is expected to be around 30-32°C and minimum temperature is expected to be 19-20°C.
- Maximum and minimum relative humidity is expected to be 58-81% and 35-43% respectively.
- 

**Gangetic Alluvial Zone****BURDWAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	32-32	23-25	79-88
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	32-32	23-24	76-88
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	32-33	23-25	70-88
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	34-34	23-24	56-71
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	31-34	20-21	80-94
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	33-35	22-24	40-82
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	32-32	26-26	54-61
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

**DAKSHIN DINAJPUR****MALDA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	33-33	24-24	73-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

**MALDA****Coastal Saline Zone****PURBA MIDNAPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	34-35	22-25	68-90
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	33-35	23-26	59-89
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	35-35	22-24	57-78
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

**PASCHIM MIDNAPORE**

- No rainfall for the coming five days and completely clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 1.5-2.3 km per hour will blow for coming five days.
- Relative humidity maximum will be 61-75% and minimum will be 39-48%
- Maximum temperature will be 30.6-34°C and minimum will be 17.8-22.6°C.

**BANKURA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	36-36	21-22	61-78
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

**BANKURA**

- No rainfall for the coming five days and completely clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 1.7-2.4 km per hour will blow for coming five days.
- Relative humidity maximum will be 53-69% and minimum will be 28-39%
- Maximum temperature will be 31-32°C and minimum will be 17.7-20.3°C.

**PURULIA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	34-34	19-20	63-79
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

**PURULIA**

- No rainfall for the coming five days and completely clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 1.7-2.4 km per hour will blow for coming five days.
- Relative humidity maximum will be 53-69% and minimum will be 28-39%
- Maximum temperature will be 31-32°C and minimum will be 17.7-20.3°C.

**BIRBHUM**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	34-34	21-21	73-77
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

**BIRBHUM**

- No rainfall for the coming five days and completely clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 1.4-2.2 km per hour will blow for coming five days.
- Relative humidity maximum will be 57-62% and minimum will be 31-37%
- Maximum temperature will be 30.8-33.6°C and minimum will be 17.4-21.8°C.

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

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	30-33	22-26	75-92
Saturday	0.1			
Sunday	11.3			
Monday	1.6			

**NORTH MIDDLE ANDAMAN**

Partly cloudy weather with light to moderate rainfall is likely to occur during next five days. In North and Middle Andaman 62 mm of rainfall is expected during this period. The maximum temperature in North and Middle Andaman will be 30.5 to 31.3 °C with minimum temperature of 23.8 to 24.5 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 73 to 77 % and 67 to 72 % respectively in North and Middle Andaman. Wind speed of 1.0 to 4.2 km/h is expected from North Easterly direction.

**SOUTH ANDAMAN.**

- Partly cloudy weather with moderate rainfall is likely to occur during next five days. In South Andaman 70 mm of rainfall is expected during this period. The maximum temperature in South Andaman will be 30.5 to 31.4 °C with minimum temperature of 23.9 to 24.5 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 74 to 79 %, and 68 to 74 % respectively in South Andaman. Wind speed of 1.3 to 5.2 km/h is expected from North Easterly direction.

**NICOBAR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	18.2	29-30	22-23	79-97
Saturday	--			
Sunday	0.2			
Monday	--			

**NICOBAR**

- Partly cloudy weather with moderate rainfall is likely to occur during next five days. In Nicobar Islands 69 mm of rainfall is expected during this period. The maximum temperature will be 30.1 to 30.6 °C with minimum temperature of 24.4 to 24.7 °C, whereas the maximum and minimum relative humidity is expected to be 76 to 80 %, and 70 to 77 %, respectively in Nicobar Islands. Wind speed of 1.4 to 4.5 km/h is expected from South Westerly 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 moderate rainfall on 24 <sup>th</sup> October and rest of the no rainfall has been forecasted so, irrigate the crops as per the requirement.
Large cardamom	Vegetative and harvesting Stage	-	Harvesting of capsule should be completed. The harvested capsule should be taken care of for discolouration and kept in shade for drying before given into Batti (improve Batti).
Mandarin Orange	Vegetative and bearing tree	-	Painting of trunk with 1% Bordeaux mixture should be done (If not done earlier). Application of FYM @ 1 basket (30-40 kg) per tree should be done (If not done earlier) and spraying of micro nutrient 0.5% ZnSO <sub>4</sub> + 0.4% Boron (Borax).
Cymbidium orchid	Spike initiation stage	-	Weeding is to be done along with removal of yellow leaves. Care should be taken not to disturb the spike.
Soybean	Pod filling Stage	-	Keep the field weed free.
Ginger	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants should be done.
Turmeric	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants should be done.
Rice	Flowering Stage	Blast disease	Irrigation should be given as per the requirement.

			Spray tricyclazole 75% WP @ 0.5 gm/lit of water (If not sprayed earlier) as a preventive measure to manage the blast disease.
<b>Round Chilli</b>	Harvesting Stage	-	Harvesting should be continued.
<b>Animal Husbandry (Goat)</b>	-	-	Goat kids lose body energy very rapidly when exposed to cold or wet environment and may become weak or die. Ensure good management practices and feeding during these seasons.

## Terai-Teesta Alluvial Zone

### Advisory

**General** Chilli-For yellow mite apply propargite 2.5 ml/lit. of water.

### Agriculture and Horticulture

Main Crops	Stage	Pest & Diseases	Advisory
<b>Paddy</b>	Tillering to panical initiation	Rice hispa, YSB, Leaf folder, Sheath blight, Mealybug, Blast	Clip of tip of the seedlings if possible. Application of granular pesticide(Cartap 4G) @ 10kg/acre. Apply validamycin@2ml/lit. or Hexaconazole @ 1ml/lit of water at the base of plant near water line if there is irregular grey patches with brown margin. Chloropyriphos 20 EC @ 2ml/lit of water against mealybug. Spindle shaped spot develop on the rice leaves with grey centre and brown margin. Spray with Tricyclazole 75 WP @1g/lit of water.
<b>Ginger, Turmeric</b>	Vegetative, Flowering	Leaf blight, rizome rot	Earthingup, weeding and drainingout of excess water. In case of leaf yellowing due to rotting of rhizomes apply (Metalaxyl + Mancozeb) @2.5 g/ lit. of water as soil drenching.
<b>Legume vegetable</b>	vegetative	Aphid, white fly	Apply Potassic fertilizer. 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.
<b>Cucurbits</b>	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.
<b>Brinjal</b>	Fruiting	fruit and shoot borer Nematode White fly, Jassid	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 in care of sucking pests infestation. For nematode problem apply Fipronil 0.3G @1.5 Kg/Bigha followed by a light irrigation. For white fly and jassid, apply Acetamiprid 20% SP@1g/3lit or Thiomithoxam 0.3 SG 1g/3lit of water.
<b>Lady's finger</b>	Fruting	White fly and Jassid	For white fly and jassid apply Acetamiprid 20% SP@1g/3lit or Thiomithoxam 0.3 SG 1g/3lit of water.
<b>Chilli</b>	vegetative	Aphid, hoppers, white fly, Thrips Yellow mite, Die back and Fruit rot	For Aphid, hoppers, white fly and thrips apply Imidacloprid 17.8 SL@1ml/5lit. of water or thiomethoxam @1g/3lit of water. For yellow mite apply propergite 2.5 ml/lit. of water. In case of branches from the top and rotting of ripen fruits apply Difenconazole @ 1ml/lit. of water.

### Animal Husbandry

Name of Animal	Disease	Control measures
<b>Cattle and Buffalo</b>	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.
<b>Chicken</b>	pox	Care for day old chicks 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

## Undulating Red and Laterite Zone

Crop	Stage	Problem	Advisory

Direct seeded Paddy	Yellow ripe/Dough Maturity/Harvest	---- Lodging/ Shattering	Provide drainage channels to remove the water from the field. When 80% grains in a panicle are matured, the crop is ready for harvest. Harvest the matured crop as early as possible and keep the rice bundles in the field for few days for sun drying.
Transplanted paddy	Yellow ripe/Dough Maturity/Harvest	---- Lodging/ Shattering	Provide drainage channels to remove the water from the field. When 80% grains in a panicle are matured, the crop is ready for harvest. Harvest the matured crop as early as possible and keep the rice bundles in the field for few days for sun drying
Wheat / Potato	Field preparation	----	After the harvest of rice crop, field should be ploughed with one deep ploughing followed by 2-3 general ploughings and planking to get the well pulverized seedbed for sowing of wheat or potato crops.
Tomato	Fruit development	Yellowing of leaf	Spray Bavistin @ 1.5-2 g/lit of water at clear weather condition.
Brinjal	Fruit development	Yellowing of leaf	Spray Bavistin @ 1.5-2 g/lit of water at clear weather condition.
General (NDVI, SPI)	Crop coverage is good and soil is moderately dry in condition for the district. No rainfall will occur for coming five days.		

## Andaman & Nicobar Islands

### For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
Paddy	Grain	<ul style="list-style-type: none"> <li>Setup light traps in rice field to attract borers moth during night time as the weather is conducive for its spread.</li> </ul>
Vegetable	Flowering	<ul style="list-style-type: none"> <li>To control pod borer in cowpea, spray carbaryl @ 2 ml/lit with onset of flowering and continue spraying for thrice at weekly intervals.</li> </ul>
Pig	Piglet	<ul style="list-style-type: none"> <li>To cure anaemia in piglet provide ferrous sulphate @ 0.5 kg dissolved in 10 lit of hot water.</li> </ul>

### For South Andaman

Crop/Livestock	Stage	Weather based agro advisories
Paddy	Grain	<ul style="list-style-type: none"> <li>Setup light traps in rice field to attract borers moth during night time as the weather is conducive for its spread.</li> </ul>
Vegetable	Flowering	<ul style="list-style-type: none"> <li>To control pod borer in cowpea, spray carbaryl @ 2 ml/lit with onset of flowering and continue spraying for thrice at weekly intervals.</li> </ul>
Pig	Piglet	<ul style="list-style-type: none"> <li>To cure anaemia in piglet provide ferrous sulphate @ 0.5 kg dissolved in 10 lit of hot water.</li> </ul>

### For Nicobar

Crop/Livestock	Stage	Weather based agro advisories
Marigold	Planting	<ul style="list-style-type: none"> <li>Plant marigold in kitchen garden as trap crops to reduce the pest attack in other vegetable crops.</li> </ul>
Pig	Piglet	<ul style="list-style-type: none"> <li>To cure anaemia in piglet provide ferrous sulphate @ 0.5 kg dissolved in 10 lit of hot water.</li> </ul>



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