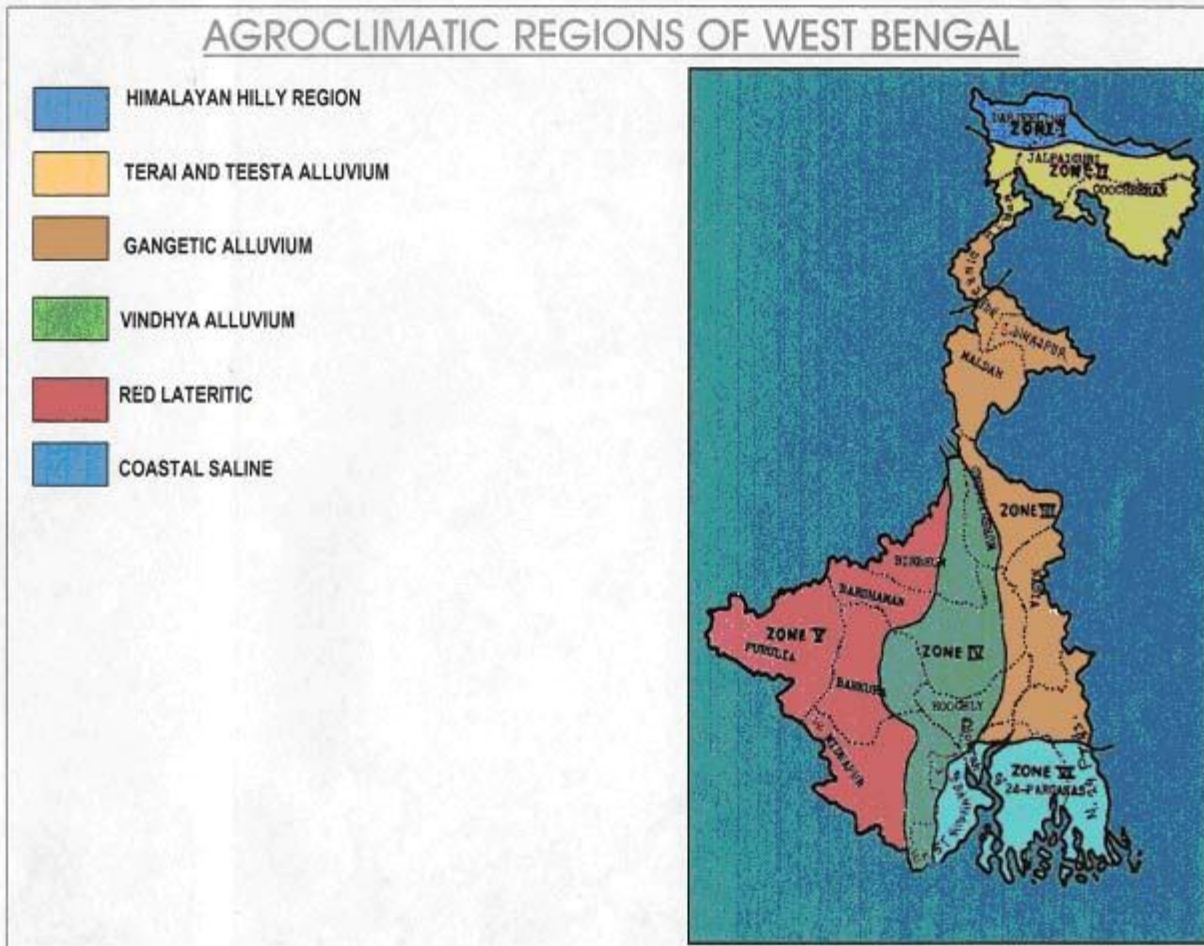


# AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

*For the period from 29<sup>nd</sup> December '2018 to 2<sup>nd</sup> January '2019*



Issued on  
**Friday, 28th 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	<b>Northern Hill Zone</b>	Darjeeling	Kalimpong
2	<b>Terai-Teesta Alluvial Zone</b>	Jalpaiguri, Alipurduar , 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 , Jhargram and Birbhum	Kharagpur

## Met sub-divisions of the state

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

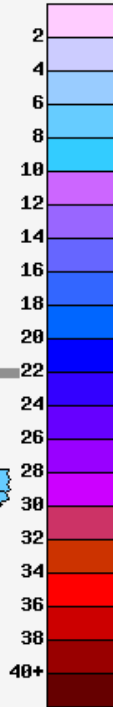
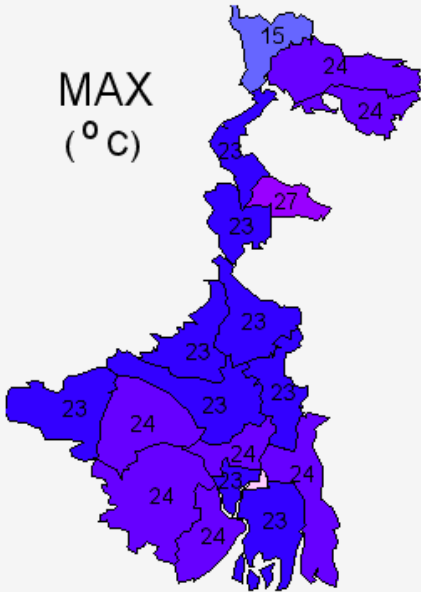
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad , Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata , Burdwan.

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

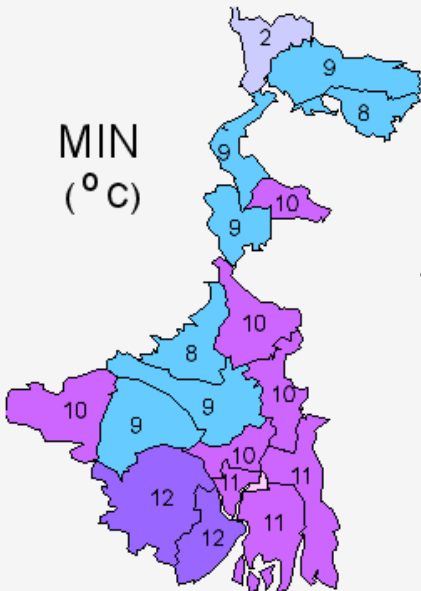
# DAY 1 FORECAST

Valid up to : Saturday 29th December 2018, 0830 hrs IST

MAX  
(°C)

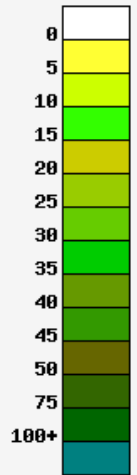
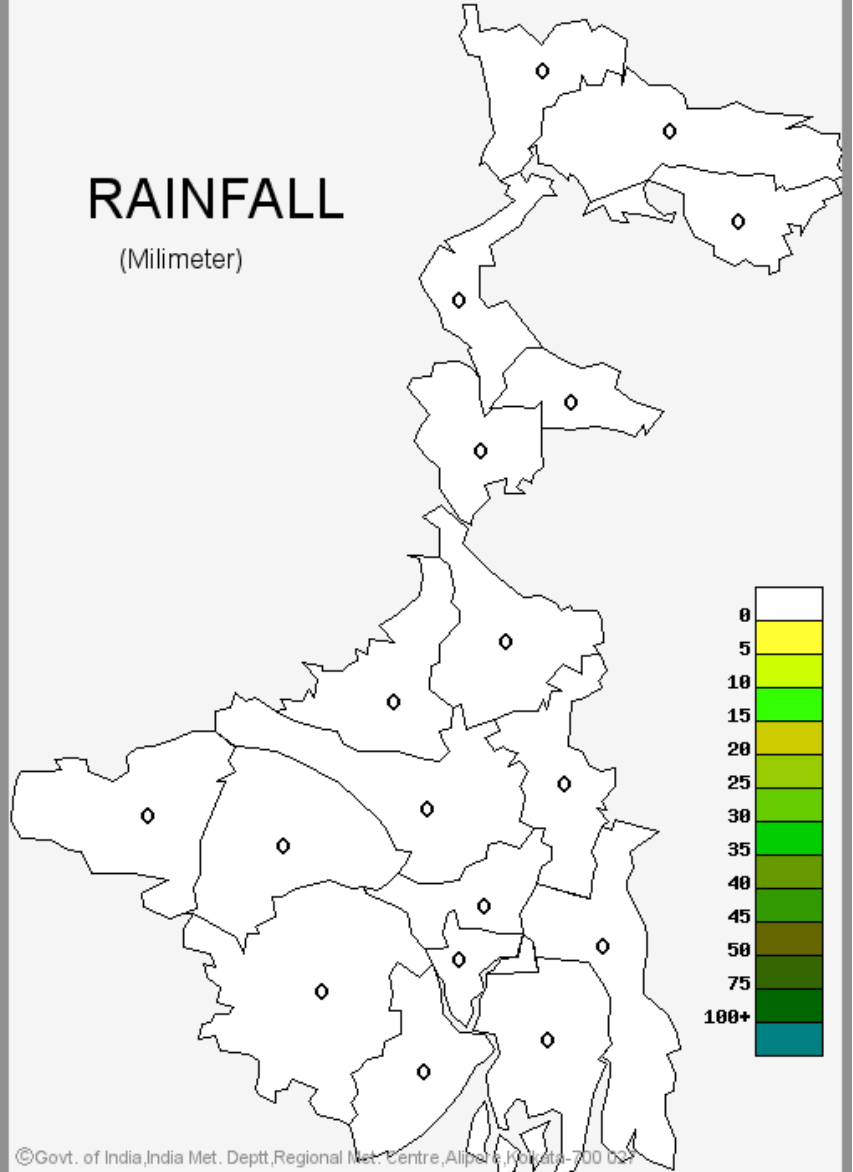


MIN  
(°C)



## RAINFALL

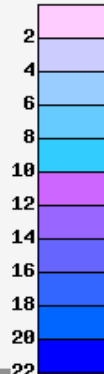
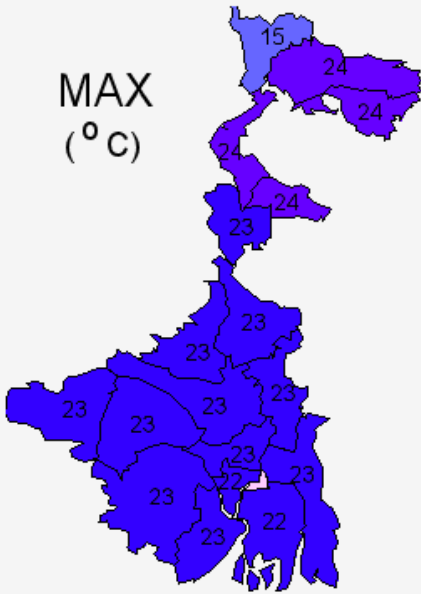
(Milimeter)



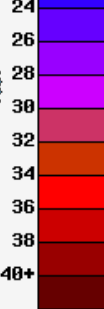
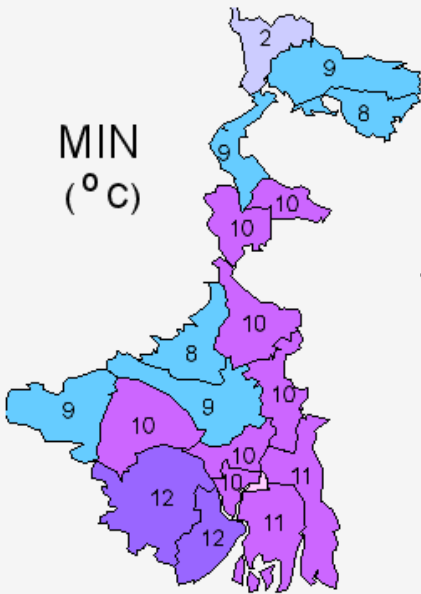
# DAY 2 FORECAST

Valid up to :Sunday 30th December 2018,0830 hrs IST

MAX  
(°C)

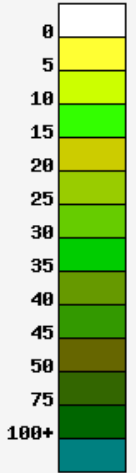
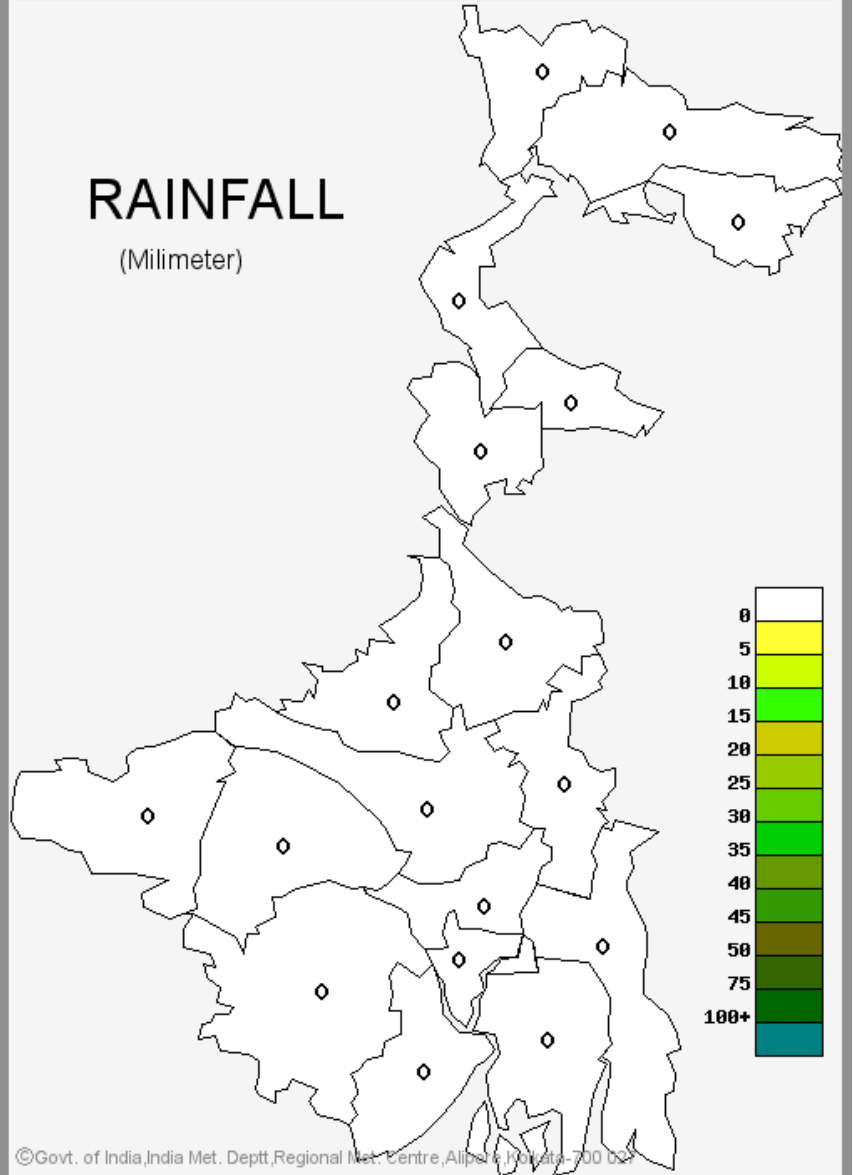


MIN  
(°C)



## RAINFALL

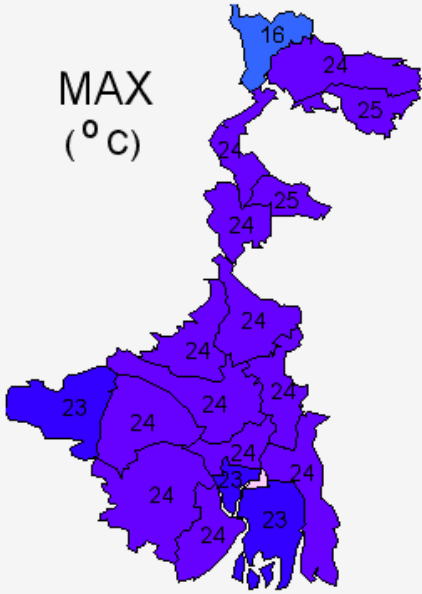
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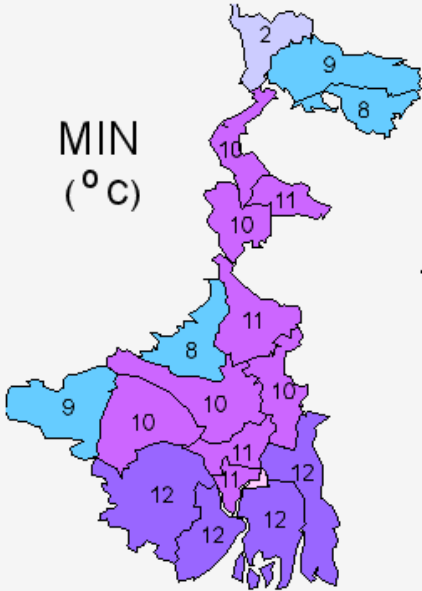
# DAY 3 FORECAST

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MAX  
(°C)

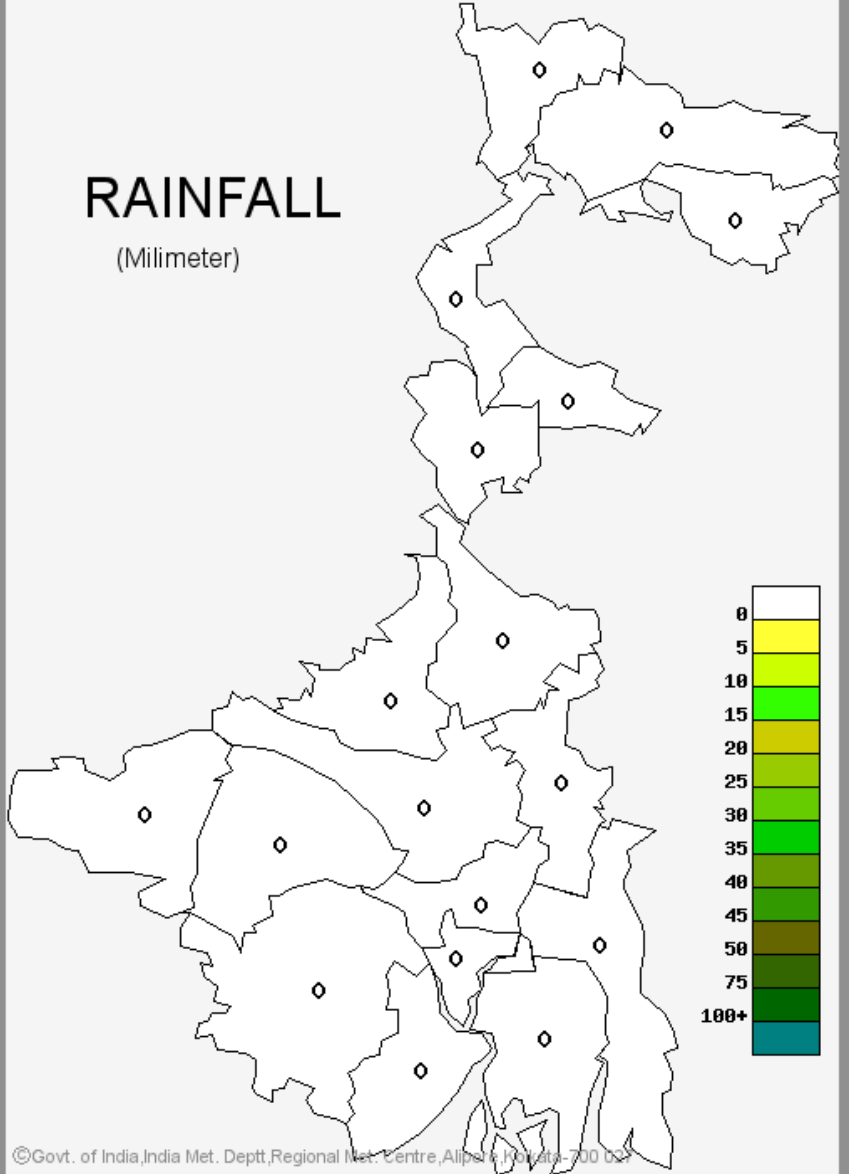


MIN  
(°C)



## RAINFALL

(Milimeter)

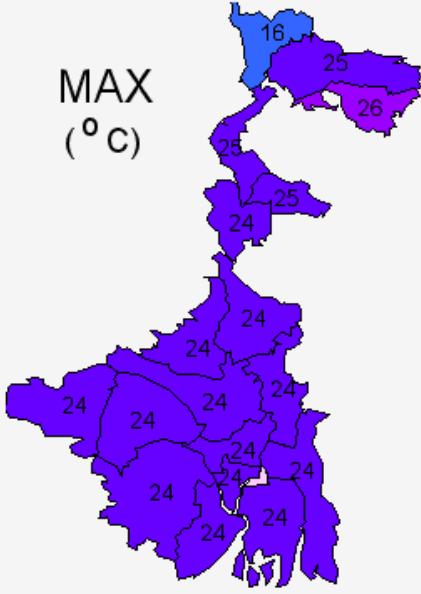


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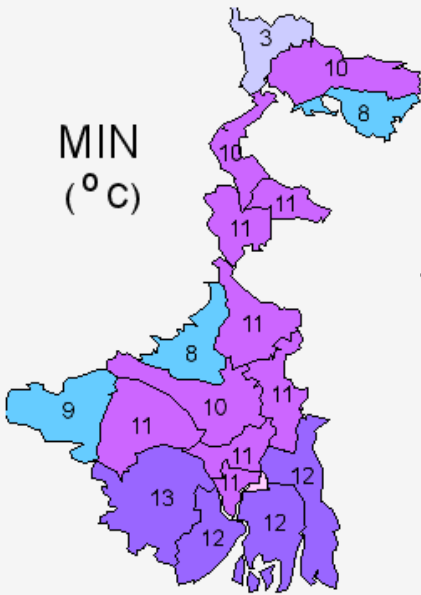
# DAY 4 FORECAST

Valid up to :Tuesday 01st January 2019,0830 hrs IST

MAX  
(°C)

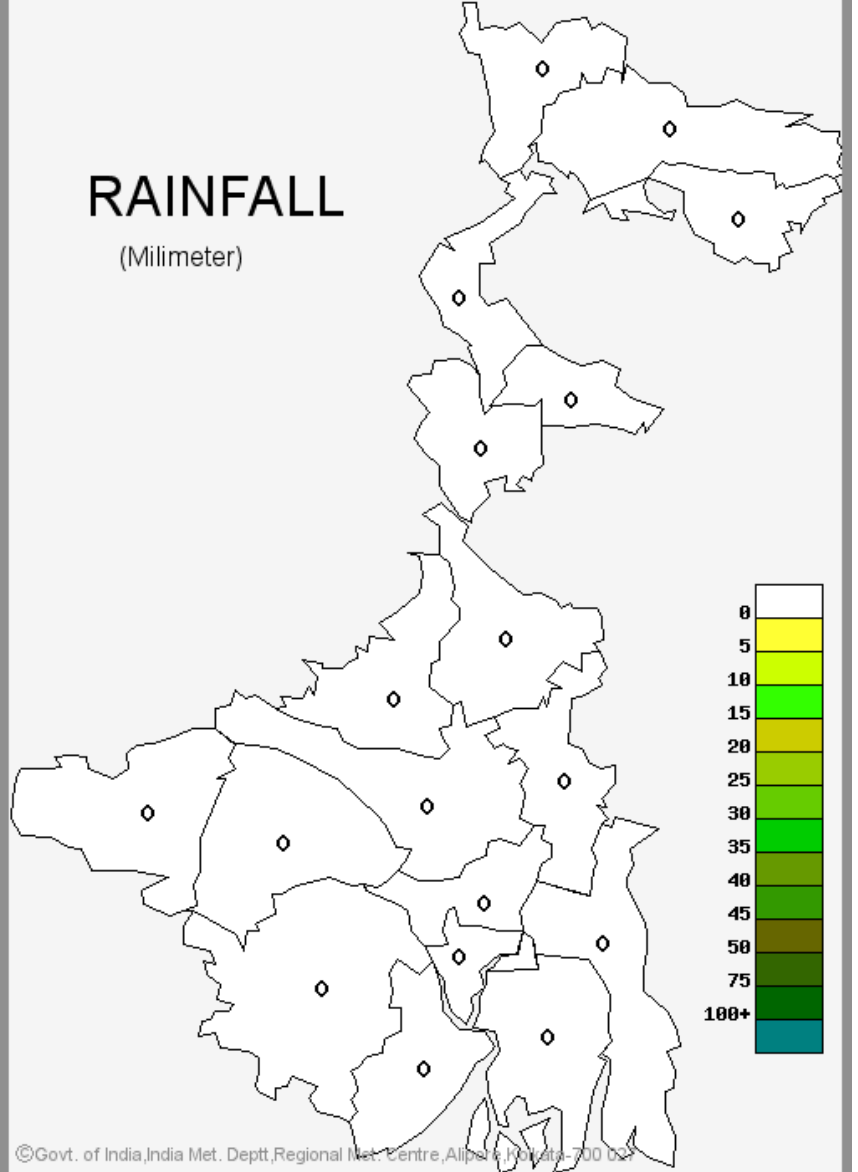


MIN  
(°C)



## RAINFALL

(Milimeter)

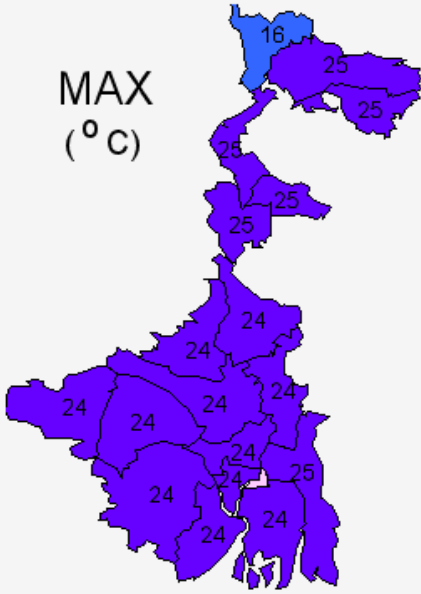


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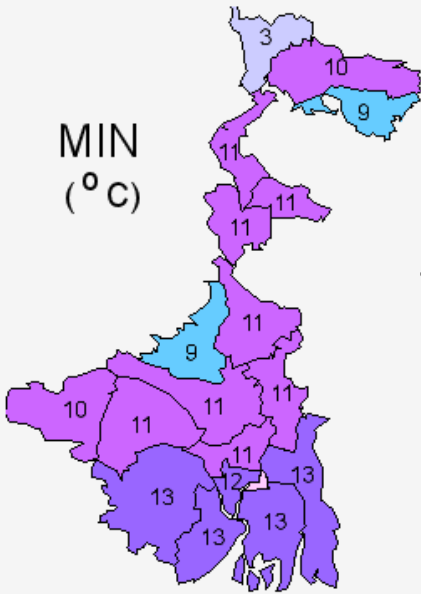
# DAY 5 FORECAST

Valid up to :Wednesday 02nd January 2019,0830 hrs IST

MAX  
(°C)

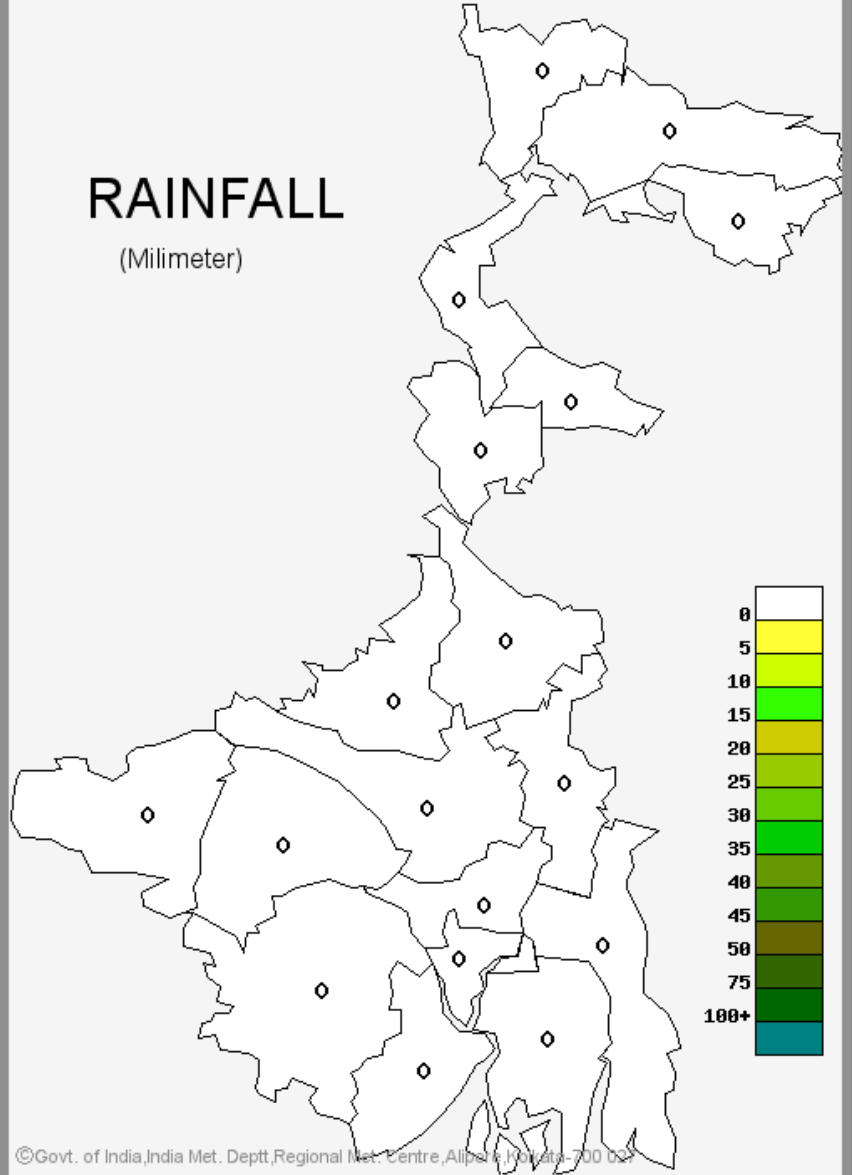


MIN  
(°C)



## RAINFALL

(Milimeter)



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## Part I: Weather

*Districtwise significant Past Weather in different agroclimatic zones for the period 25/12/18 to 27/12/18*

*District level Weather Forecast for different agroclimatic zones for the period 29/12/18 to 02/01/19*

### West Bengal

#### Northern Hill Zone

##### DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	12-16	1-7	70-95
Wednesday	0.0			
Thursday	0.0			

##### DARJEELING

<b>Rainfall</b>	Possibilities of no rainfall are expected. In next five days total rainfall of 0.0 mm is expected.
<b>Cloud Cover</b>	Possibilities of clear sky are expected.
<b>Max. Temp.</b>	Maximum temperature is expected to be around 15.0 to 16.0 °C.
<b>Min. Temp.</b>	Minimum temperature is expected to be around 2.0 to 3.0 °C.
<b>Max. RH</b>	Maximum relative humidity is expected to be around 33-61 %.
<b>Min. RH</b>	Minimum relative humidity is expected to be around 17-26 %.
<b>Wind</b>	Wind mainly will blow from southerly on 31 <sup>th</sup> 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 7.4-7.6 km/hr is expected.

#### Terai-Teesta Alluvial Zone

##### COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	24-26	8-10	80-95
Wednesday	0.0			
Thursday	0.0			

##### COOCHBEHAR

- Clear Sky will remain from 29<sup>th</sup> December to 02<sup>nd</sup> January
- No rainfall will occur from 29<sup>th</sup> December to 02<sup>nd</sup> January.
- Wind Easterly from 29<sup>th</sup> December, 30<sup>th</sup> -02<sup>nd</sup> January North Easterly, average speed of 7-10 km/hr. is expected.
- Maximum temperature is expected to be around 24<sup>o</sup>C-26<sup>o</sup>C and minimum temperature is expected to be 08<sup>o</sup>C-09<sup>o</sup>C
- Maximum and minimum relative humidity is expected to be 37-54% and 21-35% respectively.

##### JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	25-26	9-11	70-96
Wednesday	0.0			
Thursday	0.0			

##### JALPAIGURI

- Clear Sky will remain from 29<sup>th</sup> December to 02<sup>nd</sup> January
- No rainfall will occur from 29<sup>th</sup> December to 02<sup>nd</sup> January.
- Wind Easterly from 29<sup>th</sup> to 31<sup>th</sup> December, and 1<sup>st</sup> -02 January Wind North Easterly. Average speed of 6-7 km/hr. is expected.
- Maximum temperature is expected to be around 24<sup>o</sup>C-25<sup>o</sup>C and minimum temperature is expected to be 9<sup>o</sup>C-10<sup>o</sup>C
- Maximum and minimum relative humidity is expected to be 33-54% and 17-31% respectively.

##### NORTH DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	22-23	10-11	80-90
Wednesday	0.0			
Thursday	0.0			

##### NORTH DINAJPUR

- Clear Sky will remain from 29<sup>th</sup> December to 02<sup>nd</sup> January
- No rainfall will occur from 29<sup>th</sup> December to 02<sup>nd</sup> January.
- Wind North westerly 29<sup>th</sup> December, Westerly 30<sup>th</sup> December, South Westerly 31<sup>th</sup> December and 1<sup>st</sup> -02 January Wind Easterly, average speed of 8-11 km/hr. is expected.
- Maximum temperature is expected to be around 23<sup>o</sup>C-25<sup>o</sup>C and minimum temperature is expected to be 9<sup>o</sup>C-11<sup>o</sup>C
- Maximum and minimum relative humidity is expected to be 38-47% and 19-30% respectively.

#### Gangetic Alluvial Zone



**BURDWAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-25	9-13	65-75
Wednesday	0.0			
Thursday	0.0			

**BURDWAN**

Clear sky is expected during next 5 days .  
 No rainfall is expected during rest 5 days.  
 Wind flow mainly from N direction with 10.7- 11.3 km/hr. speed during next 5 days is expected.  
 Maximum relative humidity is expected to be around 47%-51% and minimum relative humidity is expected to be around 22% - 28%.  
 Maximum temperature is expected to be around 23°C – 24°C and minimum temperature is expected to be around 10°C - 11°C .

**MURSHIDABAD**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-23	8-14	70-90
Wednesday	0.0			
Thursday	0.0			

**MURSHIDABAD****NADIA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-24	10-11	90-95
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 N direction with 10.9- 12.5 km/hr. speed during next 5 days is expected.  
 Maximum relative humidity is expected to be around 47%-53% and minimum relative humidity is expected to be around 22% - 30%.  
 Maximum temperature is expected to be around 24°C and minimum temperature is expected to be around 10°C - 11°C .

**HOOGHLY**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-24	10-12	25-80
Wednesday	0.0			
Thursday	0.0			

**HOOGHLY**

Clear sky is expected during next 5 days .  
 No rainfall is expected during rest 5 days.  
 Wind flow mainly from N direction with 9.6- 12.7 km/hr. speed during next 5 days is expected.  
 Maximum relative humidity is expected to be around 48%-52% and minimum relative humidity is expected to be around 24% - 37%.  
 Maximum temperature is expected to be around 25°C – 26°C and minimum temperature is expected to be around 10°C-11°C .

**HOWRAH**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	24-24	11-12	75-90
Wednesday	0.0			
Thursday	0.0			

**HOWRAH**

Clear sky is expected during next 5 days .  
 No rainfall is expected during rest 5 days.  
 Wind flow mainly from N direction with 10.3- 13.2 km/hr. speed during next 5 days is expected.  
 Maximum relative humidity is expected to be around 44%-49% and minimum relative humidity is expected to be around 23% - 28%.  
 Maximum temperature is expected to be around 24°C – 25°C and minimum temperature is expected to be around 10°C-12 °C .

**NORTH 24 PGS**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	25-25	14-14	45-65
Wednesday	0.0			
Thursday	0.0			

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

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-29	14-14	35-82
Wednesday	0.0			
Thursday	0.0			

**DAKSHIN DINAJPUR**

- Possibility of clear sky on 29<sup>th</sup> December to 2<sup>nd</sup> January.
- There seems to be possibility of no rainfall on 29<sup>th</sup> December to 2<sup>nd</sup> January.
- Wind from North-westerly, South-westerly, North-easterly & Easterly direction with an average speed of 8.9-11.7 Km/hr. is expected.
- Maximum temperature is expected to be around 24.0-25.0°C and minimum temperature is expected to be 10.0-11.0°C.
- Maximum and minimum relative humidity is expected to be 51-55% and 22-33% respectively.

**MALDA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-25	11-13	65-72
Wednesday	0.0			
Thursday	0.0			

**MALDA**

- Possibility of clear sky on 29<sup>th</sup> December to 2<sup>nd</sup> January.
- There seems to be possibility of no rainfall on 29<sup>th</sup> December to 2<sup>nd</sup> January.
- Wind from North-westerly & Northerly direction with an average speed of 10.0-13.3 Km/hr. is expected.
- Maximum temperature is expected to be around 23.0-25.0°C and minimum temperature is expected to be 09.0-11.0°C.
- Maximum and minimum relative humidity is expected to be 45-50% and 23-30% respectively.

**Coastal Saline Zone**

**PURBA MIDNAPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	21-25	9-13	55-91
Wednesday	0.0			
Thursday	0.0			

**PURBA MIDNAPUR**

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**SOUTH 24-PGS**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	24-28	10-13	45-95
Wednesday	0.0			
Thursday	0.0			

**SOUTH 24-PGS**

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**Undulating Red and Laterite Zone****PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	24-25	11-12	35-70
Wednesday	0.0			
Thursday	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 Northwesterly. Wind with a speed of 8.8-11.1 km per hour will blow for coming five days.
- Relative humidity maximum will be 46-50 % and minimum will be 23-26 %
- Maximum temperature will be 23-24°C and minimum will be 12-13°C.

**BANKURA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	24-25	9-10	55-75
Wednesday	0.0			
Thursday	0.0			

**BANKURA**

- No rainfall for the coming five days and clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 9.8-11.1 km per hour will blow for coming five days.
- Relative humidity maximum will be 47-51 % and minimum will be 22-25%
- Maximum temperature will be 23-24°C and minimum will be 9-10°C.

**PURULIA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-24	8-9	25-90
Wednesday	0.0			
Thursday	0.0			

**PURULIA**

- No rainfall for the coming five days and clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 8.2-9.2 km per hour will blow for coming five days.
- Relative humidity maximum will be 46-51 % and minimum will be 18-21 %
- Maximum temperature will be 23-24°C and minimum will be 9-10°C.

**BIRBHUM**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	24-25	8-9	60-80
Wednesday	0.0			
Thursday	0.0			

**BIRBHUM**

- No rainfall for the coming five days and clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 10.6-12.6 km per hour will blow for coming five days.
- Relative humidity maximum will be 47-50 % and minimum will be 23-27%
- Maximum temperature will be 23-24°C and minimum will be 8-9°C.

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

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-33	19-24	67-95
Wednesday	0.0			
Thursday	0.0			

**NORTH MIDDLE ANDAMAN**

Partly cloudy weather with light rainfall is likely to occur during next five days. In North and Middle Andaman 11 mm of rainfall is expected during this period. The maximum temperature in North and Middle Andaman will be 29.0 to 30.0 °C with minimum temperature of 21 to 23.0 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 64 to 79 % and 59 to 70 % respectively in North and Middle Andaman. Wind speed of 12.7 to 13.7 km/h is expected from North Easterly direction.

**SOUTH ANDAMAN.**

- Partly cloudy weather with light rainfall is likely to occur during next five days. In South Andaman 10.0 mm of rainfall is expected during this period. The maximum temperature in South Andaman will be 29.0 to 30.0 °C with minimum temperature of 22 to 23 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 69 to 81 %, and 60 to 73 % respectively in South Andaman. Wind speed of 13.8 to 17.0 km/h is expected from North Easterly direction

**NICOBAR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-29	21-24	70-90
Wednesday	0.1			
Thursday	0.0			

**NICOBAR**

- Partly cloudy weather with light rainfall is likely to occur during next five days. In Nicobar Islands 7.0 mm of rainfall is expected during this period. The maximum temperature will be 29.0 to 30.0 °C with minimum temperature of 27 to 28 °C, whereas the maximum and minimum relative humidity is expected to be 66 to 81 %, and 62 to 75 %, respectively in Nicobar Islands. Wind speed of 11.8 to 17.2 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 no rainfall has been forecasted so, irrigate the crops as per the requirement and drainage channel should be maintained.
Large cardamom	Vegetative Stage	-	Use leaf mold at base of clump for moisture conservation.
Mandarin Orange	Harvesting and Non Bearing-vegetative stage	-	Harvesting of fruits should be continued with care without breaking branches and fallen fruit should be collected and destroyed. For non bearing trees, pruning of dried and overcrowded branches then spray copper oxychloride 2gm /lit of water with wettable sulphur 0.2%. Irrigation should be provided as per the requirement.
Ginger	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants should be done. Healthy plots should be marked for seed rhizome for next season.
Turmeric	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants should be done. Healthy plots should be marked for seed rhizome for next season.
Rice	Maturity Stage	-	If the crop is matured than harvest the crop as early as possible.
Cole Crop (Cauliflower, Cabbage, etc)	Vegetative stage	-	Weeding should be done and irrigate the crops as per the requirement.
Potato	Planting	-	Planting of potato tuber should be done at 60 cm x 25 cm spacing, seed tuber weight 30-50 gm and seed rate 20-25 q / ha. Before planting of tubers, it should be treated with 1% chlorocin solution followed by rinsing in fresh water. The well washed tubers then may be treated with 3% solution of boric acid for 20 minutes and dried in shade.
Garden Pea	Vegetative stage	-	Weeding should be done and irrigate the crops as per the requirement.
Mustard	Land preparation and sowing	-	At the time of land preparation 40 kg Nitrogen, 40 kg phosphorus and 20 kg potassium per hectare should be incorporated. In boron deficient soil borax should be applied @ 10 kg per hectare during final land preparation. Mustard should be sown at 30cm x 5-7 cm spacing and seed rate 5-6 kg per hectare.
Animal Husbandry (Sheep and Goat)	-	-	Sheep and goat are susceptible to Pneumonia and FMD in winter months. Take protective measure in winter months. Give vaccination against FMD. Don't allow sheep and goat to graze at early morning.

### Terai-Teesta Alluvial Zone

#### Advisory

**GENERAL** Potato-lateblight- Spray Mancozeb@2.5g/lit. of water alternating with cu-hydroxide 2g/lit. of water at 10 days interval plants with more canopy and to be sprayed with (Cymoxinil + Mencozeb) @ 1.5g/lit. of water.

#### Agriculture and Horticulture

Main Crops	Stage	Pest & Diseases	Advisory
Potato	Sowing	Late blight	Treat the seeds before sowing in the solution of (Carbendazim 1g + Mencozeb 2g) per lit. of water by dipping for at least 30 minutes. Apply Chlorpyrifos at the time of Sowing in cut worm prone areas. Spray Mancozeb@2.5g/lit. of water alternating with cu-hydroxide 2g/lit. of water at 10 days interval plants with more canopy and to be sprayed with (Cymoxinil + Mencozeb) @ 1.5g/lit. of water. Followed by Spraying with Mancozeb <a href="#">75wp@2.5g/lit</a> After 7 Days.
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 <b>Copperoxy. Chloride @ 3g/lit. of water.</b>
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.
Brinjal	Vegetative Fruiting,	fruit and shoot borer Nematode White fly, Jassid, Little Leaf	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 Fipronil <a href="#">0.3G @1.5 Kg/Bigha</a> 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% <a href="#">SP@1g/3lit</a> or <a href="#">Thiomithoxam 0.3 SG 1g/3lit</a> of water. Plants With Small Sized Leaves and Burchy appear am to be uprooted and Spreyed with Imidachloprid @5ml/lit of Water.
Chilli	vegetative	Aphid, white fly, Thrips Yellow mite,	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.

#### ANIMAL HUSBANDRY & FISHERY

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 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
Mustard	Vegetative stage	Plant spacing should be maintained at 12-15 cm by thinning. Intercultural operations like light spading and weeding should be done. If required, light irrigation should be given as there is no rainfall forecast.
Boro Paddy	Sowing	Start sowing of Boro paddy.
Gram and Pea	Vegetative stage	Intercultural operations like light spading and weeding should be done. In case of collar rot, drenching the soil with a combination of chlorothalonil (2g) + carbendazim (1 g)/lt of water.
Cabbage, Cauliflower, Broccoli, Tomato, Chilli, French Bean, Pointed Gourd, Cucumber	Vegetative	Intercultural operations like light spading and weeding should be done followed by 1 <sup>st</sup> top dressing of nitrogenous fertilizer and earthing up for cabbage, cauliflower, broccoli, tomato, chilli. After fertilizer application, light irrigation should be given. No need to apply nitrogenous fertilizer in case of french bean at this stage but other operations should be followed. 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.
Rabi Maize	Sowing or Vegetative	Continue sowing of rabi Maize. Deep ploughing & sundrying of the field to prevent the attack of soil borne insect is advised. 1-2 ton cow dung manure or vermicompost is required at the time of final land preparation. 10 Kg Urea, 35 Kg SSP, 9Kg Potash may be added as basal. 2-2.5 Kg seed is needed per bigha for line sowing. Early varieties like Sathi, Kathi, Tin Pakhi, Medium varieties like Keti41, Janunpur, Late varieties like Ganga-1, 101,5, D-Can, Ganga Safed etc are recommended. Light irrigation should be given for optimum moisture condition of the field to ensure proper germination.
Potato	Sprouting /Vegetative stage	If planting is done at end of November to first week of December, depending on the soil moisture, apply splash irrigation at 3-4 days interval up to 2-3 days before 1 <sup>st</sup>

		<p>earthing up as there is no forecast of rainfall..</p> <p>If planting is done before 15<sup>th</sup> of November, light spading followed by hand weeding at this stage is necessary. First top dressing with 1/4<sup>th</sup> amount of total nitrogen (200 kg N) + 1/4<sup>th</sup> amount of total potash (150 kg) followed by earthing up should be done. Apply chloropyriphos @ 2.5 ml/lit of water against the attack of cut worm and leaf eating insect.</p>
Rabi Onion & Garlic	Vegetative	Intercultural operations like light spading and weeding should be done. Propiconazole (Tilt) @ 1ml/l with a sticker 4-5 times starting from 15 days after transplanting to check purple blotch disease.
Flowers like Marigold, Chrysanthemum & Gladiolus	Vegetative	Intercultural operations like light spading and weeding should be done.
Spinach, Radish, Fenugreek, Coriander, Turnip	Vegetative	Extra seedlings should be thinned out. Intercultural operations like light spading and weeding should be done.
Mango Orchard	General	Wrapping of plastic sheets around mango trunk should be done for preventing climbing of young mealy bugs. Apply grease to seal any cracks in the polythene sheets. Irrigation should be done in all orchards.
Poultry	General	As the temperature is very low, arrange electric bulb for whole day in the cages of new born chicks. For avoiding moist condition of litter apply lime and old news paper in the litter.

## Coastal Saline Zone

Crop	Stage	Disease	Advisory
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## Vindhyan Alluvial Zone

Crop	Stage	Variety	Advisory
General	--	--	There seems to be possibility of no rainfall on 29 <sup>th</sup> December to 2 <sup>nd</sup> January. Spray should be done as per requirement.
Lentil	Growth stage	--	Spray 2% DAP solution (20g/lit) at 25 DAS. Also spray Borax @ 2g/liter water. Spraying should be done well with sufficient water. At least 75 liter (5 tanks) water per bigha.
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	Leaf blight	To control leaf blight of mustard, spray copper oxychloride @ 3-4gram/liter of water.

<b>Potato</b>	Early vegetative	Insect	Management of Potato insect pests sprays Neem oil 1% @ 3ml/liter + Sandovit @ 0.5ml/liter at evening hours at 7 days interval.
<b>Betel vine</b>			To protect the Boroz from cold weather covered the Boroz with paddy straw.
<b>Cattle</b>	--	--	50-55 days after sowing of Berseem and 55-60 days of Oats, these can be harvested. Henceforth, Barseem can be harvested every 25-30 days.
<b>Fishery</b>	Fish Disease	--	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
<b>Boro rice</b>	<b>Seedling</b>	<b>Cold injury</b>	To protect the seedlings from cold, cover the nursery bed with polythene. Keep stagnant water in the nursery bed especially for the night time. Start preparation of the main field for transplanting.
<b>Wheat</b>	<b>Tillering</b>	<b>Yellow Rust</b>	Low temperature favours yellow rust disease. Spray Mancozeb 75 Wettable Powder @ 2g/lit of water in regular intervals.
<b>Potato</b>	<b>Vegetative stage</b>	--  Early blight  Mite/Thrips	Farmers are advised to maintain weed free condition and give light irrigation. Cool and moist weather favours the early blight disease. Spray Ridomil MZ @2g/lit of water in 10-15 days interval. Apply Acephate 75% WP @ 0.75 g/lit of water.
<b>Mustard</b>	<b>Vegetative stage</b>	<b>Mustard aphid</b>	Cool weather favours the aphid incidence and multiplication. Spray Imidacloprid @1ml/1.5 lit of water.
<b>Fishery</b>	<b>Fishery Management:</b> 1.Stop feeding of fishes for 1 or 2 days in a week. 2.3. Use lime (Calcium carbonate) in pond after checking the pH regularly. 4. Netting is to be done at least onetime in a fortnight.		
<b>General (NDVI, SPI)</b>	Crop coverage is good and soil is moderately wet in condition for the district. No rainfall will occur and clear sky will be present for coming five days. Farmers are advised to maintain the optimum moisture content in the soil by giving light irrigation.		

## Andaman & Nicobar Islands

### For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Transplanting	<ul style="list-style-type: none"> <li>Transplant the already grown 30 days old seedlings of cauliflower with the spacing of 60 cm between the rows and maintain 45 cm plant to plant distance.</li> </ul>
Vegetable	Nursery	<ul style="list-style-type: none"> <li>Mix thoroughly 2 kg of vermicompost per square meter and raise the vegetable nursery in raised beds.</li> </ul>
Poultry	Day old to 3 weeks	<ul style="list-style-type: none"> <li>Poultry chicks from day old upto 3 weeks of age should be kept under enclosures and provide warm condition either through electric bulb or lamp.</li> </ul>

### For South Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Transplanting	<ul style="list-style-type: none"> <li>Transplant the already grown 30 days old seedlings of cauliflower with the spacing of 60 cm between the rows and maintain 45 cm plant to plant distance.</li> </ul>
Vegetable	Nursery	<ul style="list-style-type: none"> <li>Mix thoroughly 2 kg of vermicompost per square meter and raise</li> </ul>



		the vegetable nursery in raised beds.
Poultry	Day old to 3 weeks	<ul style="list-style-type: none"> <li>Poultry chicks from day old upto 3 weeks of age should be kept under enclosures and provide warm condition either through electric bulb or lamp.</li> </ul>

**For Nicobar**

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Fruiting	<ul style="list-style-type: none"> <li>Do weeding and remove the infected fruits from the community garden of vegetable.</li> </ul>
Poultry	Day old to 3 weeks	<ul style="list-style-type: none"> <li>Poultry chicks from day old upto 3 weeks of age should be kept under enclosures and provide warm condition either through electric bulb or lamp.</li> </ul>

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