

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

For the period from 09th February to 13th February '2019

AGROCLIMATIC REGIONS OF WEST BENGAL

-  HIMALAYAN HILLY REGION
-  TERAI AND TEESTA ALLUVIUM
-  GANGETIC ALLUVIUM
-  VINDHYA ALLUVIUM
-  RED LATERITIC
-  COASTAL SALINE



Issued on
Friday, 08th February '2019

ISSUED BY

Regional Meteorological Centre, Alipore, Kolkata-27 in collaboration with State Agricultural Universities and state Agricultural Department.

Agroclimatic zones of the state

Sl. No.	Agroclimatic Zone	Districts	Agromet Field Unit (AMFU) Location
1	Northern Hill Zone	Darjeeling	Kalimpong
2	Terai-Teesta Alluvial Zone	Jalpaiguri, Alipurduar , Coochbehar and Uttar Dinajpur.	Pundibari
3	Gangetic Alluvial Zone	Murshidabad, Nadia, North 24 Parganas, Howrah, Hooghly and Burdwan	Kalyani
4	Vindhyan Alluvial Zone	Dakhin Dinajpur, Malda	Majhian
5	Costal Saline Zone	South 24 Parganas and Purba Midnapore	Kakdeep
6	Undulating Red and Laterite Zone	Purulia, Bankura , Paschim Midnapore , Jhargram and Birbhum	Kharagpur

Met sub-divisions of the state

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

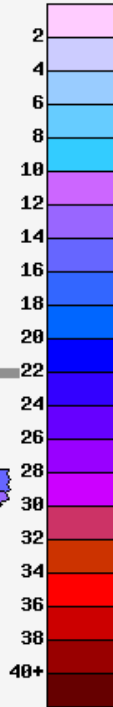
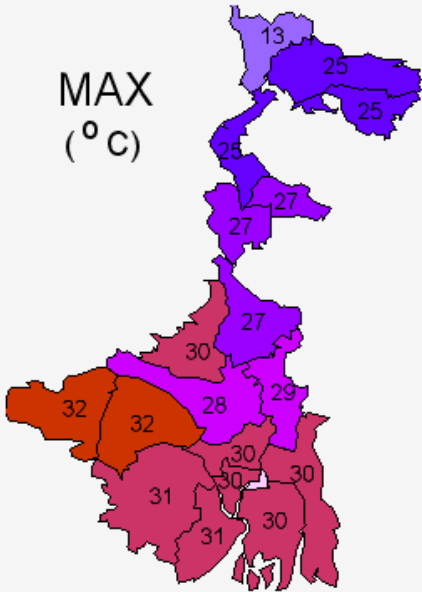
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad , Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata , Burdwan.

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

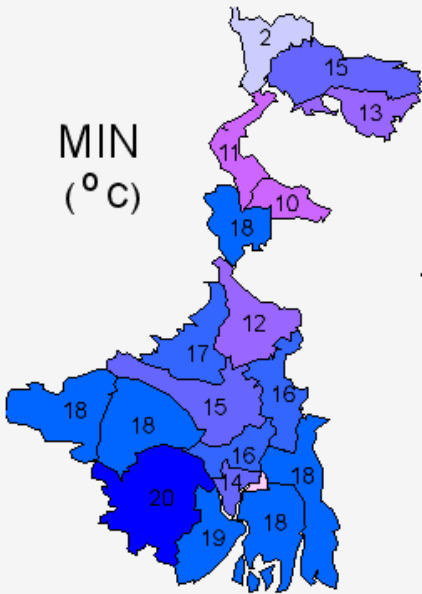
DAY 1 FORECAST

Valid up to : Saturday 09th February 2019, 0830 hrs IST

MAX
(°C)

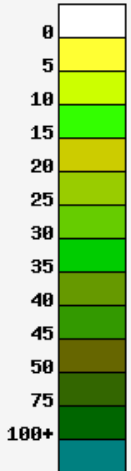
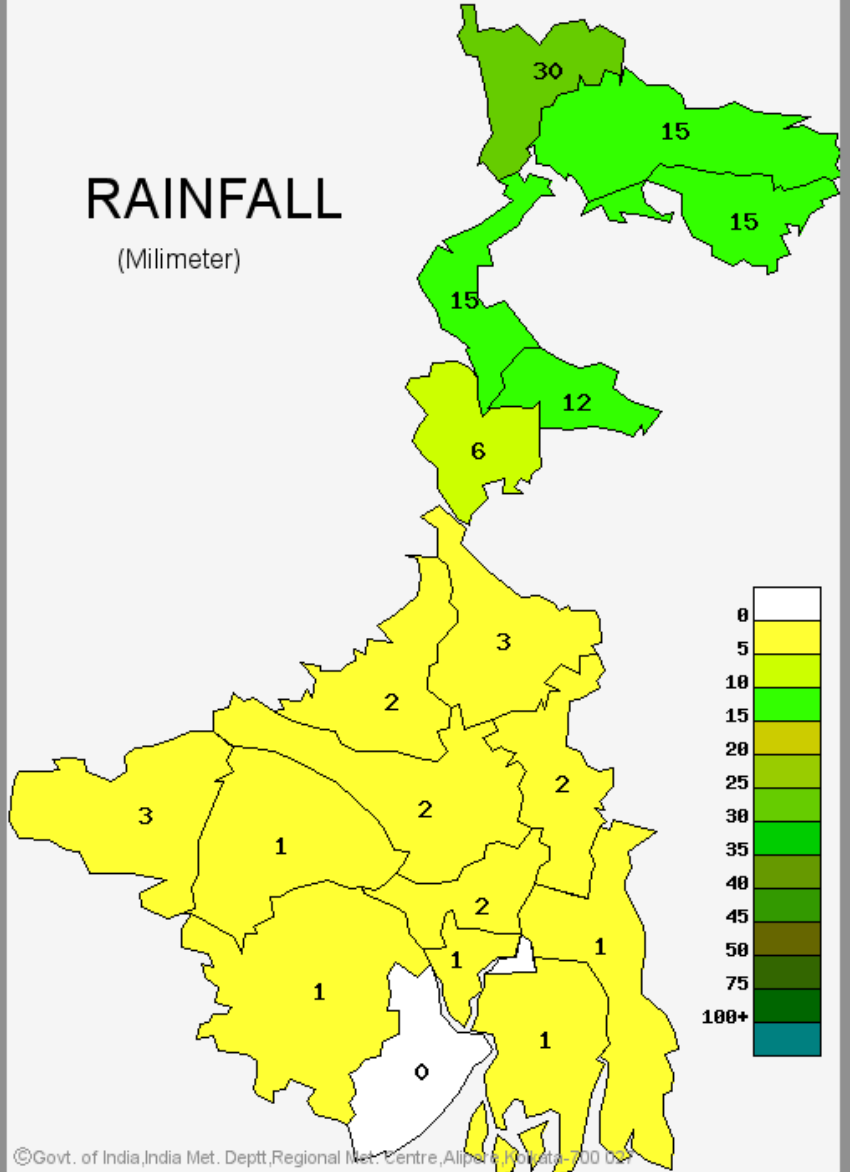


MIN
(°C)



RAINFALL

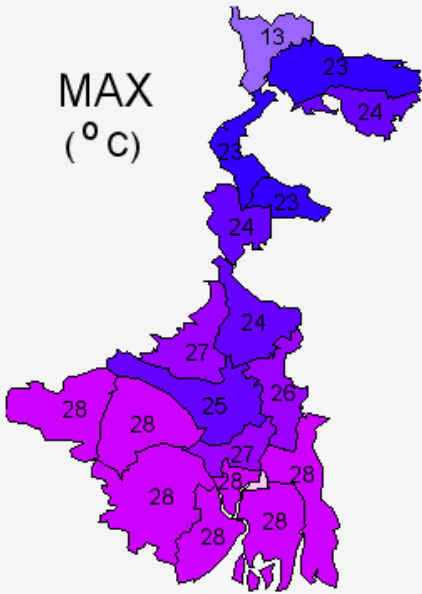
(Milimeter)



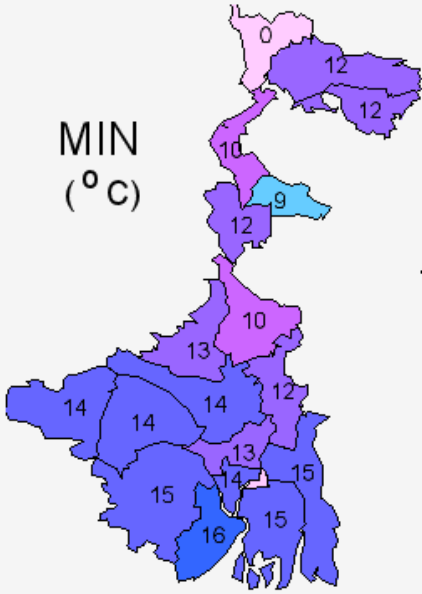
DAY 2 FORECAST

Valid up to :Sunday 10th February 2019,0830 hrs IST

MAX
(°C)

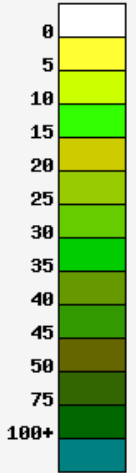
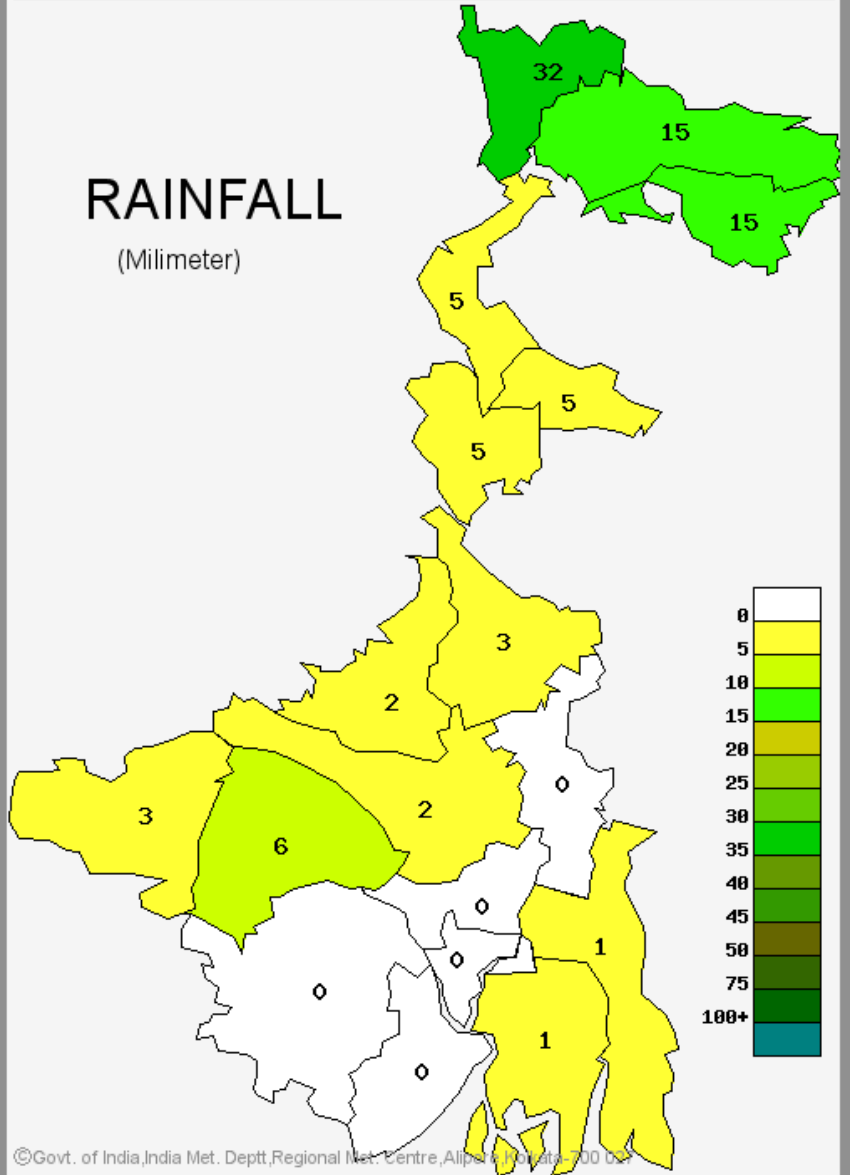


MIN
(°C)



RAINFALL

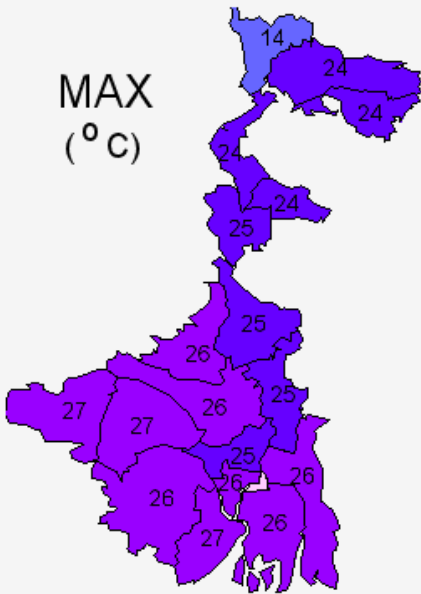
(Milimeter)



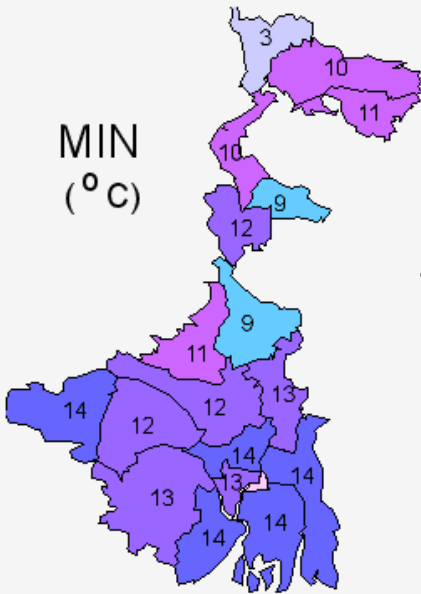
DAY 3 FORECAST

Valid up to :Monday 11th February 2019,0830 hrs IST

MAX
(°C)

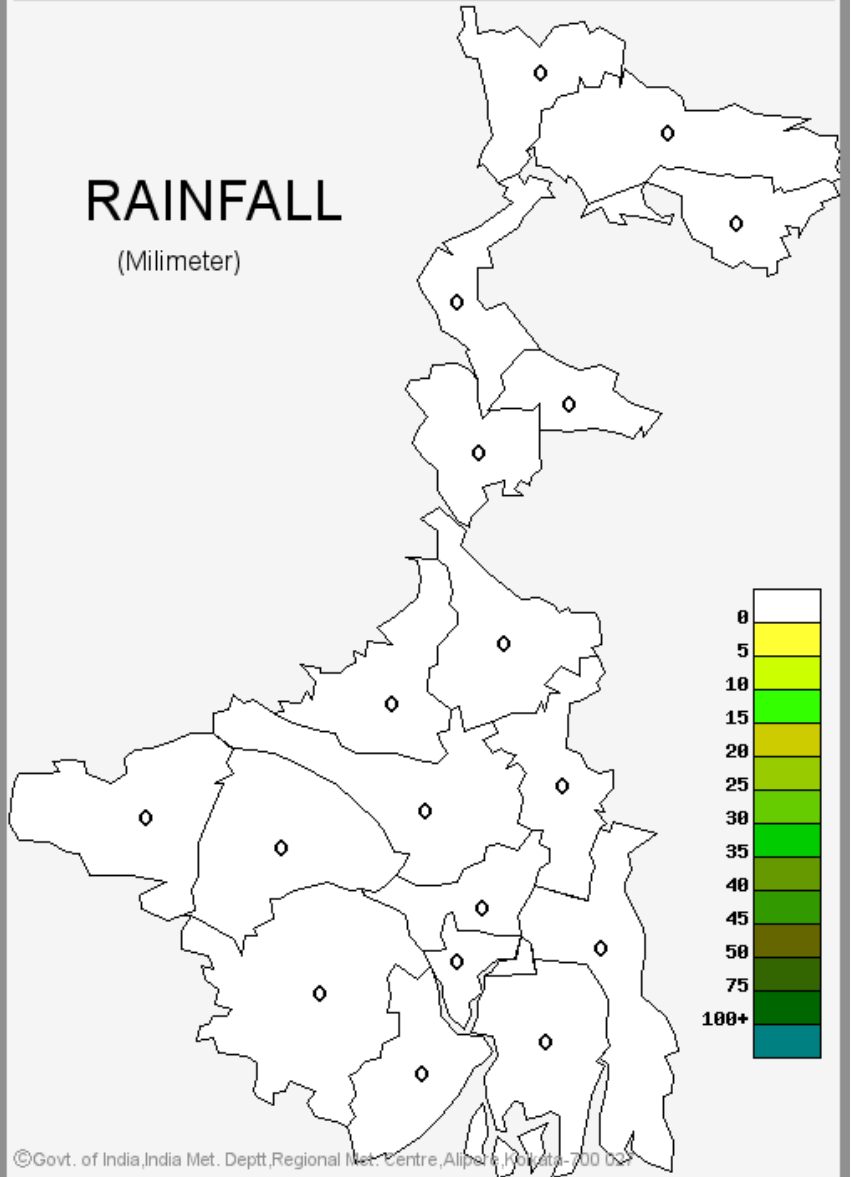


MIN
(°C)



RAINFALL

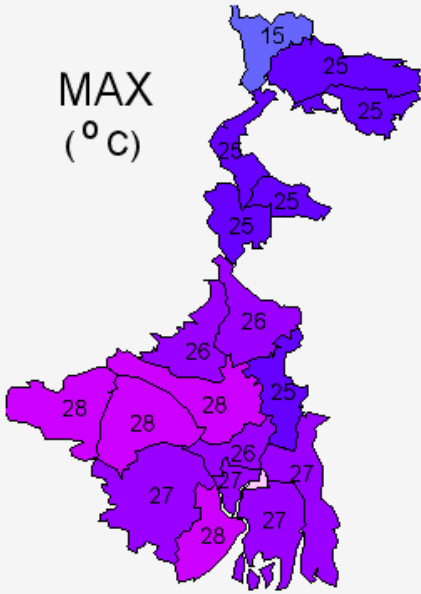
(Milimeter)



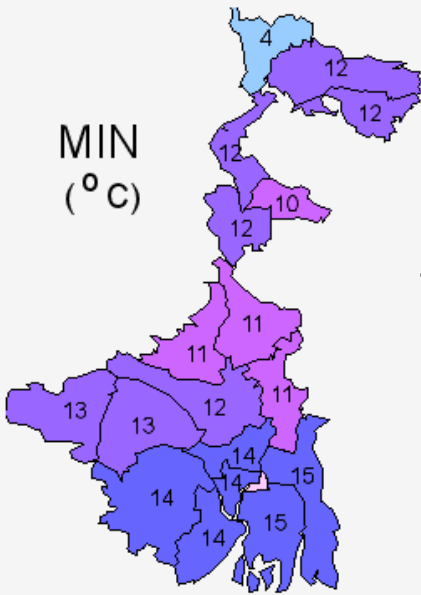
DAY 4 FORECAST

Valid up to :Tuesday 12th February 2019,0830 hrs IST

MAX
(°C)

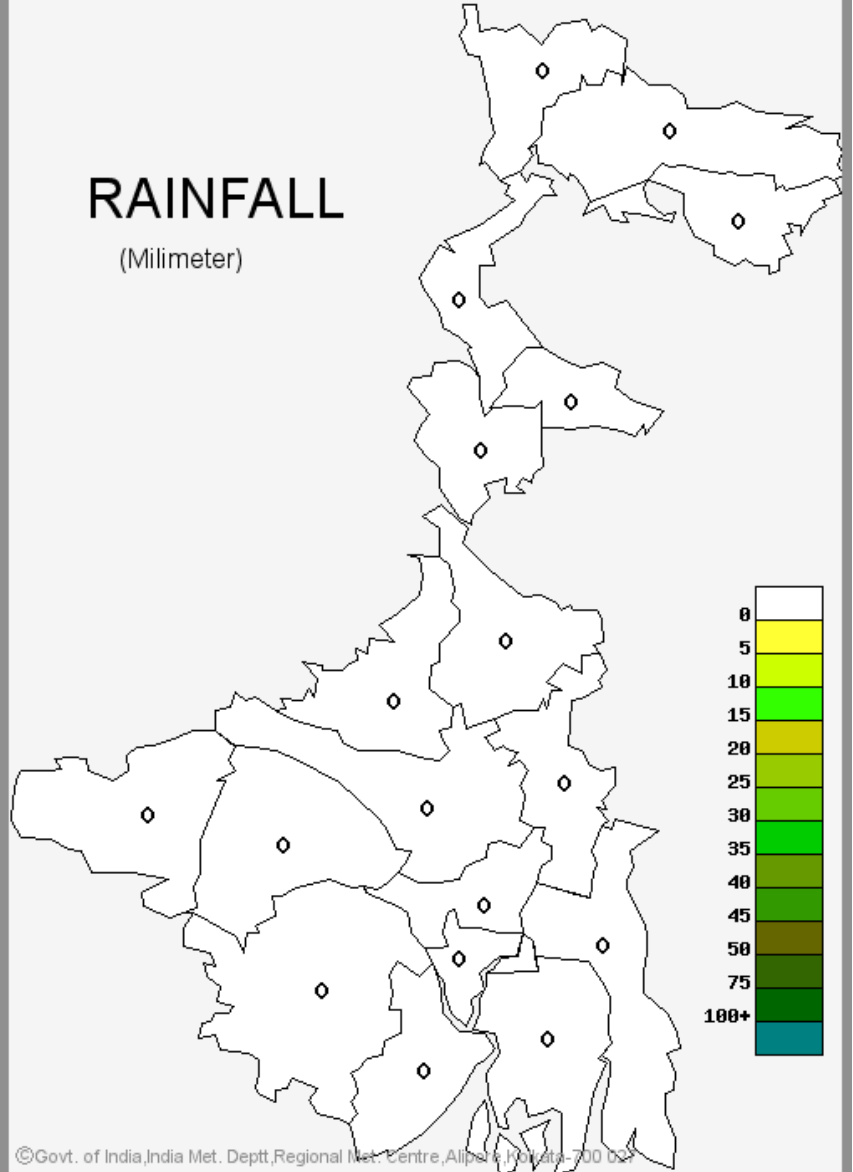


MIN
(°C)



RAINFALL

(Milimeter)

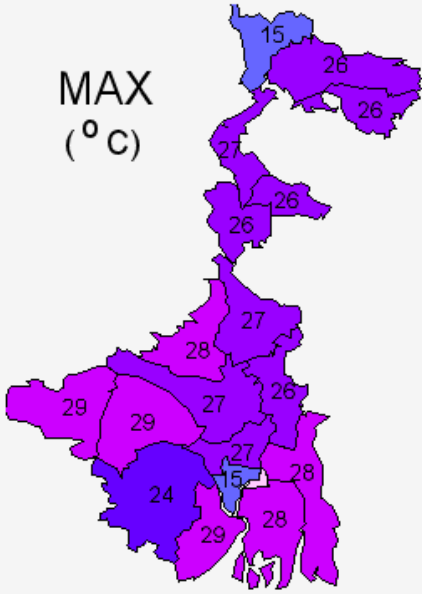


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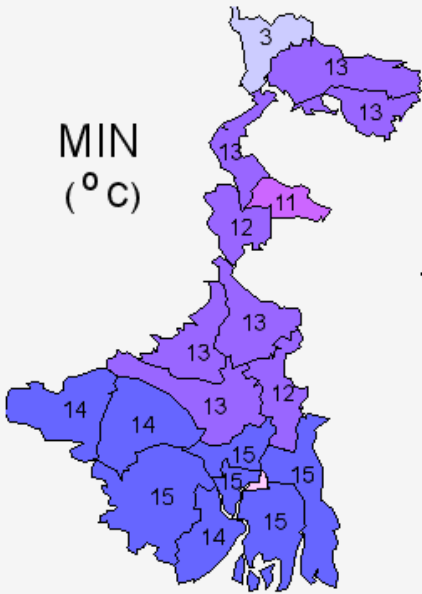
DAY 5 FORECAST

Valid up to :Wednesday 13th February 2019,0830 hrs IST

MAX
(°C)

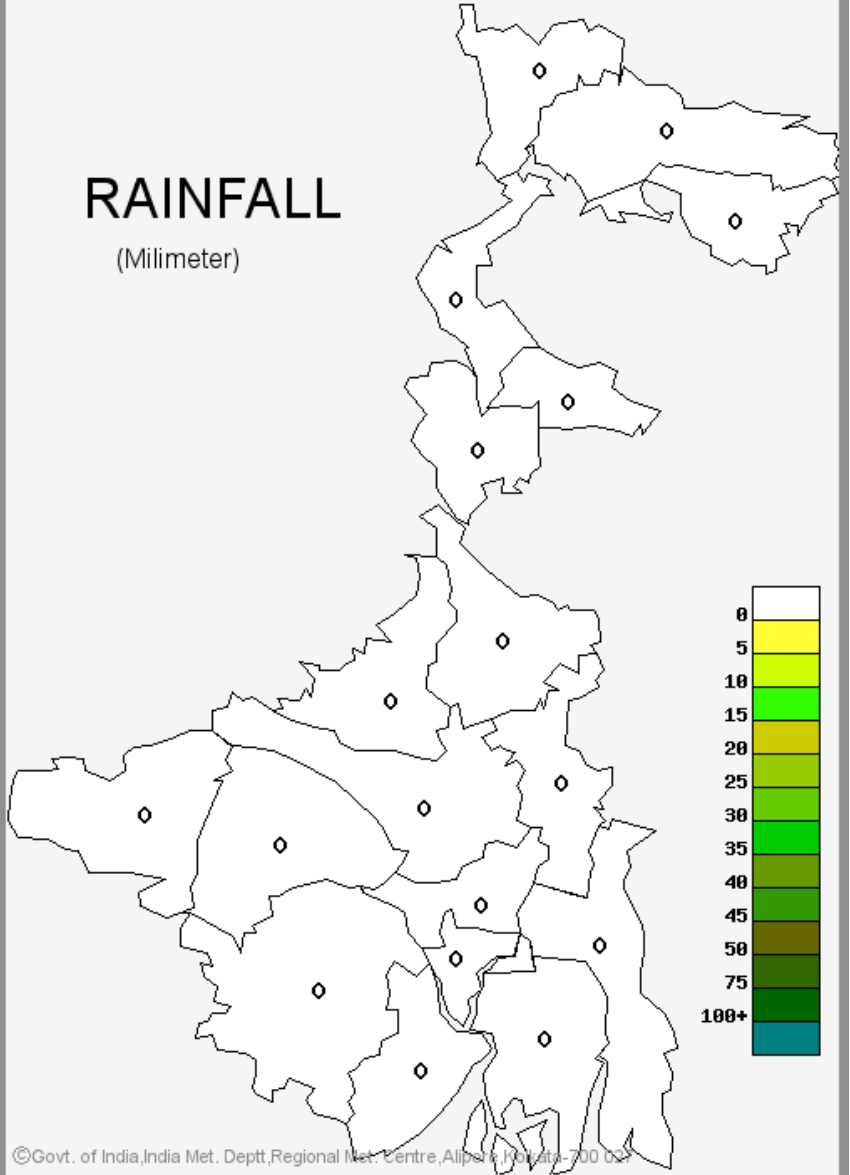


MIN
(°C)



RAINFALL

(Milimeter)



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Part I: Weather

Districtwise significant Past Weather in different agroclimatic zones for the period 05/02/19 to 07/02/19

District level Weather Forecast for different agroclimatic zones for the period 09/02/19 to 13/02/19

West Bengal

Northern Hill Zone

DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	12-19	5-8	65-95
Wednesday	0.0			
Thursday	0.0			

DARJEELING

Rainfall	Possibilities of moderate rainfall on 9 th , 10 th February and rest of the day's no rainfall has been forecasted. In coming five days total rainfall of 62.0 mm is expected.
Cloud Cover	Possibilities of cloudy sky on 9 th February, clear sky on 11 th February and rest of the day's partly clear sky are expected.
Max. Temp.	Maximum temperature is expected to be around 13.0 to 15.0°C.
Min. Temp.	Minimum temperature is expected to be around 0.0 to 4.0°C.
Max. RH	Maximum relative humidity is expected to be around 51 - 77 %.
Min. RH	Minimum relative humidity is expected to be around 29 - 55 %.
Wind	Wind mainly will blow from north-easterly on 9 th February, westerly on 10 th February, south-easterly on 13 th February and rest of the days wind mainly will blow from southerly direction. In coming five days wind mainly will blow with a speed of 6.7 - 8.7 km/hr is expected.

Terai-Teesta Alluvial Zone

COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-27	9-10	65-90
Wednesday	0.0			
Thursday	0.0			

COOCHBEHAR

- Possibility of overcast sky on 9th February, partly cloudy on 10th, 12th & 13th February and clear sky on 11th February.
- Possibility of moderate rain on 9th & 10th February and no rainfall on 11th to 13th February.
- Wind from South-easterly, Easterly & North-easterly direction with average speed of 6.8-11.5 km/hr. is expected.
- Maximum temperature is expected to be around 24-26°C and minimum temperature is expected to be 11-13°C
- Maximum and minimum relative humidity is expected to be 50-85% and 26-57% respectively.
-

JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-28	10-11	60-90
Wednesday	0.0			
Thursday	0.0			

JALPAIGURI

- Possibility of overcast sky on 9th February, partly cloudy on 10th, 12th & 13th February and mainly clear sky on 11th February.
- Possibility of moderate rain on 9th & 10th February and no rainfall on 11th to 13th February.
- Wind from Easterly & South-easterly direction with average speed of 6.2-8.5 km/hr. is expected.
- Maximum temperature is expected to be around 23-26°C and minimum temperature is expected to be 10-15°C
- Maximum and minimum relative humidity is expected to be 48-78% and 27-53% respectively.
-

NORTH DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	25-27	9-10	74-86
Wednesday	0.0			
Thursday	0.0			

NORTH DINAJPUR

- Possibility of overcast sky on 9th February, partly cloudy on 10th, 12th & 13th February and clear sky on 11th February.
- Possibility of moderate rain on 9th February, light rain on 10th February and no rainfall on 11th to 13th February.
- Wind from North-easterly, Westerly, South-westerly and North-westerly direction with average speed of 7.4-13.0 km/hr. is expected.
- Maximum temperature is expected to be around 23-27°C and minimum temperature is expected to be 10-13°C
- Maximum and minimum relative humidity is expected to be 56-80% and 29-52% respectively.
-

Gangetic Alluvial Zone**BURDWAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-29	13-15	70-80
Wednesday	0.0			
Thursday	0.0			

BURDWAN

Clear sky to partly cloudy sky on (9th, 10th Feb.) expected during next 5 days .

No rainfall to little rainfall (9th, 10th Feb.) is expected during rest 5 days and total will be 10 mm.

Wind flow mainly from N, E, SE, NW direction with 7-10 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 53-77% and minimum relative humidity is expected to be around 28% - 54%.

Maximum temperature is expected to be around 25°C - 30°C and minimum temperature is expected to be around 12°C - 16°C .

MURSHIDABAD

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-27	11-12	50-65
Wednesday	0.0			
Thursday	0.0			

MURSHIDABAD

Clear sky to partly cloudy sky on (9th , 10th Feb.) expected during next 5 days .

No rainfall to little rainfall (9th , 10th Feb) is expected during rest 5 days and total will be 18mm.

Wind flow mainly from N ,NE, & NW direction with 13 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 57-86% and minimum relative humidity is expected to be around 32% - 62%.

Maximum temperature is expected to be around 24°C-29°C and minimum temperature is expected to be around 11°C - 15°C .

NADIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-27	15-16	45-95
Wednesday	0.0			
Thursday	0.0			

NADIA

Clear sky to partly cloudy sky on (9th , 10th Feb.) expected during next 5 days .

No rainfall to little rainfall (9th , 10th Feb) is expected during rest 5 days and total will be 8 mm.

Wind flow mainly from N, NW, SE, SW direction with 11 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 53% - 78% and minimum relative humidity is expected to be around 29% - 53%.

Maximum temperature is expected to be around 25°C-30°C and minimum temperature is expected to be around 12°C - 16°C.

HOOGHLY

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-28	15-16	70-85
Wednesday	0.0			
Thursday	0.0			

HOOGHLY

Clear sky to partly cloudy sky on (9th , 10th Feb.) expected during next 5 days .

No rainfall is expected during rest 5 days.

Wind flow mainly from NW,W,SE, NE direction with 13 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 53% - 72% and minimum relative humidity is expected to be around 27% - 49%.

Maximum temperature is expected to be around 26°C-31°C and minimum temperature is expected to be around 13°C - 17°C.

HOWRAH

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-29	11-17	40-85
Wednesday	0.0			
Thursday	0.0			

HOWRAH

Clear sky to partly cloudy sky on (9th , 10th Feb.) expected during next 5 days .

No rainfall is expected during rest 5 days .

Wind flow mainly from N, S, NW direction with 8- km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 48% - 68% and minimum relative humidity is expected to be around 26% - 48%.

Maximum temperature is expected to be around 27°C-31°C and minimum temperature is expected to be around 13°C-17°C.

NORTH 24 PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-30	15-16	35-80
Wednesday	0.0			
Thursday	0.0			

NORTH 24 PGS

Clear sky to partly cloudy sky on (8th , 9th Feb.) expected during next 5 days .

No rainfall is expected during rest 5 days .

Wind flow mainly from N, NE, SW & SE direction with 6- 13 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 52% - 71% and minimum relative humidity is expected to be around 25% - 44%.

Maximum temperature is expected to be around 26°C-30°C and minimum temperature is expected to be around 13°C-17°C .

Vindhyan Alluvial Zone**DAKSHIN DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-27	9-10	35-65
Wednesday	0.0			
Thursday	0.0			

DAKSHIN DINAJPUR

- Possibility of overcast sky on 9th February, partly cloudy sky on 10th, 12th & 13th February and clear sky on 11th February.
- There seems to be possibility of light rain on 9th & 10th February and no rainfall on 11th to 13th February.
- Wind from Northerly and North-westerly direction with an average speed of 9.6-13.3 Km/hr. is expected.
- Maximum temperature is expected to be around 23.0-26.0°C and minimum temperature is expected to be 09.0-11.0°C.
- Maximum and minimum relative humidity is expected to be 55-79% and 29-50% respectively.
-

MALDA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-29	11-15	55-85
Wednesday	0.0			
Thursday	0.0			

MALDA

- Possibility of overcast sky on 9th February, mainly clear sky on 10th February, partly cloudy sky on 12th & 13th February and clear sky on 11th February.
- There seems to be possibility of light rain on 9th & 10th February and no rainfall on 11th to 13th February.
- Wind from North-easterly & North-westerly direction with an average speed of 10.2-15.5 Km/hr. is expected.
- Maximum temperature is expected to be around 24.0-27.0°C and minimum temperature is expected to be 12.0-18.0°C.
- Maximum and minimum relative humidity is expected to be 64-82% and 32-49% respectively.

Coastal Saline Zone**PURBA MIDNAPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-31	14-19	50-95
Wednesday	0.0			
Thursday	0.0			

PURBA MIDNAPUR

- Light rainfall is predicted in 9th and 10th February and no rainfall is predicted in the remaining days.
- Sky will be partly cloudy in 9th and 10th February and clear in the remaining days.
- Wind speed will be 9.4-12.2 km/sec. and the predominant wind direction will be Northerly.
- Maximum temperature is expected to be around 27.0°C -30.0°C and minimum temperature is likely to be around 13.0°C-18.0°C.
- Maximum and minimum relative humidity will be in the range of 46% -79% and 25% -50%.

SOUTH 24-PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	29-32	13-16	40-95
Wednesday	0.0			
Thursday	0.0			

SOUTH 24-PGS

- Light rainfall is predicted in 9th and 10th February and no rainfall is predicted in the remaining days.
- Sky will be partly cloudy in 9th and 10th February and clear in the remaining days.
- Wind speed will be 8.8-13.5 km/sec. and the predominant wind direction will be Northerly.
- Maximum temperature is expected to be around 27.0°C -31.0°C and minimum temperature is likely to be around 15.0°C-20.0°C.
- Maximum and minimum relative humidity will be in the range of 49% -73% and 26% -46%.

Undulating Red and Laterite Zone**PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	30-31	15-17	25-95
Wednesday	0.0			
Thursday	0.0			

PASCHIM MIDNAPORE

- Very light rainfall on Saturday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Northwesterly. Wind with a speed of 9.9-11.1 km per hour will blow for coming five days.
- Relative humidity maximum will be 45-64 % and minimum will be 18-32%
- Maximum temperature will be 24-31°C and minimum will be 13-20°C.

BANKURA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	30-33	13-14	40-75
Wednesday	0.0			
Thursday	0.0			

BANKURA

- Very light rainfall on Saturday and Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southeasterly. Wind with a speed of 5.8-10.4 km per hour will blow for coming five days.
- Relative humidity maximum will be 42-90 % and minimum will be 19-51%
- Maximum temperature will be 28-32°C and minimum will be 13-16°C.
-

PURULIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	30-30	14-15	35-95
Wednesday	0.0			
Thursday	0.0			

PURULIA

- Very light rainfall on Saturday and Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Northwesterly. Wind with a speed of 6.8-15.8 km per hour will blow for coming five days.
- Relative humidity maximum will be 48-67 % and minimum will be 16-28%
- Maximum temperature will be 27-32°C and minimum will be 13-18°C.
-

BIRBHUM

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-30	10-13	35-70
Wednesday	0.0			
Thursday	0.0			

BIRBHUM

- Very light rainfall on Saturday and Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Northwesterly. Wind with a speed of 10-14.2 km per hour will blow for coming five days.
- Relative humidity maximum will be 58-82 % and minimum will be 24-43%
- Maximum temperature will be 26-30°C and minimum will be 11-17°C.
-

Andaman & Nicobar Islands**ANDAMAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-33	22-25	50-95
Wednesday	0.0			
Thursday	0.0			

NORTH MIDDLE ANDAMAN

Clear sky is likely to occur during next five days. In North and Middle Andaman no rainfall is expected during this period. The maximum temperature in North and Middle Andaman will be 31.0 to 32.0 °C with minimum temperature of 22.0 to 23 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 74 to 80 % and 65 to 68 % respectively in North and Middle Andaman. Wind speed of 11.9 to 18.3 km/h is expected from North Easterly direction.

SOUTH ANDAMAN.

- Clear sky is likely to occur during next five days. In South Andaman 6 mm of rainfall is expected during this period. The maximum temperature in South Andaman will be 32.0 °C with minimum temperature of 23 to 24 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 76 to 80 %, and 68 to 74 % respectively in South Andaman. Wind speed of 12.5 to 20.4 km/h is expected from North Easterly direction.

NICOBAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	29-30	23-26	75-80
Wednesday	0.0			
Thursday	0.0			

NICOBAR

- Partly cloudy weather with light to moderate rainfall is likely to occur during next five days. In Nicobar Islands 23.0 mm of rainfall is expected during this period. The maximum temperature will be 31.0 °C with minimum temperature of 28 to 29 °C, whereas the maximum and minimum relative humidity is expected to be 80 to 82 %, and 73 to 77 %, respectively in Nicobar Islands. Wind speed of 16.4 to 27.5 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 moderate rainfall on 9 th , 10 th February and rest of the day's no rainfall has been forecasted so, proper drainage channel should be maintained. Agricultural vigour is moderate in Darjeeling district according to the Normalized Difference Vegetation Index (NDVI) map ending on 28 th Jan to 3 rd Feb, 2019. According to the Standardized Precipitation Index (SPI) map cumulative four weeks for the period from 10 th Jan to 6 th Feb, 2019 Darjeeling district experienced severely dry condition.
Large cardamom	Vegetative Stage	-	Weeding along with cleaning of dry shoot and dry leaves followed by mulching to be done.
Mandarin Orange	Vegetative stage	-	Application of manuring @ 30-40 kg FYM/ Plant and fertilizer (N:P:K @ 300:250:300 gm/tree) should be completed and mulching with locally available resources should be done.
Cole Crop (Cauliflower, Cabbage, etc)	Harvesting stage	-	Mature crop should be harvested.
Potato	Tuberization Stage	-	Weeding should be done, irrigation is not

			recommended as 62.0 mm rainfall has been forecasted for coming five days.
Garden Pea	Flowering and Pod maturity stage	-	Weeding should be done and mature pods should be harvested.
Mustard	Flowering and Siliqua formation stage	-	Irrigation is not recommended as 62.0 mm rainfall has been forecasted for coming five days.
Animal Husbandry (Pig)	-	-	Piglets are highly susceptible to pneumonia in winter months. The symptoms are high fever (104-105°F), anorexia, difficulty in breathing etc. For treatment give antibiotics, paracetamol and vitamin after consultation with veterinary doctors.
General	-	-	In coming five days moderate rainfall on 9 th , 10 th February and rest of the day's no rainfall has been forecasted so, proper drainage channel should be maintained. Agricultural vigour is moderate in Darjeeling district according to the Normalized Difference Vegetation Index (NDVI) map ending on 28 th Jan to 3 rd Feb, 2019. According to the Standardized Precipitation Index (SPI) map cumulative four weeks for the period from 10 th Jan to 6 th Feb, 2019 Darjeeling district experienced severely dry condition.
Large cardamom	Vegetative Stage	-	Weeding along with cleaning of dry shoot and dry leaves followed by mulching to be done.
Mandarin Orange	Vegetative stage	-	Application of manuring @ 30-40 kg FYM/ Plant and fertilizer (N:P:K @ 300:250:300 gm/tree) should be completed and mulching with locally available resources should be done.

Terai-Teesta Alluvial Zone

Advisory

Agriculture and Horticulture

Main Crops	Stage	Pest & Diseases	Advisory
Potato	Sowing	Late blight	Spray Mancozeb@2.5g/lit. of water alternating with cu-hydroxide 2g/lit. of water at 10 days interval plants with late blight symptom to be sprayed with (Cymoxinil + Mencozeb) @ 1.5g/lit. of water.
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	Harvesting		For cabbage and cauliflower apply Borax 20% @ 2g/lit of water to avoid browning and hollow heart.
Cucurbits	Fruiting	Fruit Fly Fruit & Vine rot White fly, Mosaic	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 mosaic uproot the infected plant and spray systemic insecticide.
Brinjal	Vegetative 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 to manage sucking pests infestation. For nematode problem apply Fipronil 0.3G @1.5 Kg/Bigha 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% SP@1g/3lit or Thiomithoxam 0.3 SG 1g/3lit 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/lt. of water.

ANIMAL HUSBANDRY & FISHERY

Name of Animal	Disease	Control measures
Cattle and Buffalo	Non specific Diarrhoea, FMD	The cattle populations 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
Boro	Seedling	Start nursery management of Boro rice. Apply water to the nursery at evening and drain out at morning as night temperature is low. Spray Tricyclozole @ 0.5g/litre of water and after one day spray Cheleted Zinc @ 1g/litre of water if seedlings turn to reddish in colour.
Mustard	Flowering/Pod formation stage	Be careful for aphid infestation. Immediately spray Imidachloprid (Confidor) @ 3ml/10 litre of water. Intercultural operations like weeding and rouging should be done. If required, light irrigation may be given as there is no rainfall forecast.
Gram and Pea	Flowering/Pod formation 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)/litre of water.
Lentil	Vegetative/Flowering stage	As temperature is lowering spray Carbendazim 50% @ 1g/litre of water as protective measure. Intercultural operations mainly weeding should be done.
Cabbage, Cauliflower, Broccoli, Tomato, Chilli, French Bean, Pointed Gourd, Cucumber, Brinjal	Fruit Setting/ Vegetative	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. 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 Carbofuron 3G @4.5kg /Bigha 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% SP@1g/3lit. or Thiomithoxam 0.3 SG 1g/3lit. of water. Plants with small sized leaves and bunchy appearance plants to be uprooted and sprayed with Imidachloprid @0.5ml/lit of Water. For control of bacterial wilt in solanaceous vegetable stop irrigation immediately, uproot the plant carefully and apply bleaching powder or fresh cow dung mixture around the infected plant to control the spreading of disease in the field. For management of fruit borer in the tomato apply Indoxacarb 1ml/lit. of water insecticide mixture at 7 days interval thrice.

Potato	Vegetative / Tuber Initiation	Present weather is not congenial for disease and pest infestation. Those who have sown crop in late winter, be aware of aphid and blight infestation. For pest control apply Imidachlorprid @ 3ml/ 10 litres of water. If required then repeat the application of Imidachlorprid after 10 days. To control blight apply Mancozeb 2.5 g / lt. of water. If infestation is more, apply cymoxanil-mancozeb (Curzate) (2.5 g/lt) or Dimethomorph (1 g) + Mancozeb (2g)/lt. (Moxymate) of water at 10 days interval.
Rabi Onion & Garlic	Vegetative	Intercultural operations like light spading and weeding should be done. Propiconazole (Tilt) @ 1ml/litre with a sticker 4-5 times (at 7 days interval) starting from 15 days after transplanting to check purple blotch disease
Flowers like Marigold, Chrysanthemum & Gladiolus	Flowering	Intercultural operations like light spading and weeding should be done.
Mango Orchard	General	i) Spray either Imidachloprid (Confidor) @ 3ml/10 litres of water or Acetamiprid (Asataf) @ 1 ml/litre of water for controlling mango hopper ii) When inflorescence attain 4 inches (emergence of axis) or just before flowering apply Tridemethon (Beledan) @ 1 g/litre of water with sticker (Tiptop/diamond) iii) Immediately after fruit setting apply Bavistin @ 1 g/litre – 3 sprays at 15 days interval iv) Irrigation should be done in all orchards. v) Apply FYM @ 10-12 kg and Sufala / DAP @ 1 kg per plant.
Poultry	General	Care for day old chicks with proper brooding, ventilation and management may reduce morbidity and mortality rate Anti-stress medication is recommended to save the poultry birds against cold weather.
Fishery	General	i) Against Ulcer disease take preventive measure with application of 10-14 kg Lime per bigha fish pond. ii) For control of Ulcer disease, apply 13 kg Lime per bigha fish pond. Then after 7 days, apply 1.3 kg bleaching powder per bigha fish pond. iii) In order to avoid bird menace, give net covering over the fish pond. iv) In cold and cloudy weather, avoid application of fertilizer and compost, as oxygen deficiency increases and depth of water decreases in farm pond.

Coastal Saline Zone

Crop	Stage	Disease	Advisory
Boro paddy	--Complete transplanting in the main field within 2-3 days --Follow a spacing of 20cm X 20cm and transplant the seedlings at 2cm depth --four to five seedlings transplant per hill --For avoiding morning dense fog apply Trycyclozole@5-6g/10liter of water in the seed bed before uprooting the seedlings		
Boro rice	Tillering	-- Weeds	Keep the bunds clean and maintain the water level upto 2 cm in the field. If weeds are noticed in the field,

			apply Butachlor @1.25-2 kg/ha at 3-4 days after transplanting.
Wheat	Late jointing Flowering	Rust and Blight disease --	The weather condition may favor rust and blight diseases. Spray Mancozeb @ 2.5g/lit of water. Give irrigation to the crop and avoid the unnecessary chemical applications at this stage.
Potato	Tuber bulking	Late blight	Give light irrigation to the crop. Apply Mancozeb @ 2.5g/lit of water.
Mustard	Pod development	Aphids	If aphids are noticed, spray Imidacloprid @1ml/1.5lit of water.
Fishery	Fishery Management: 1. Apply Lime (Calcium Carbonate) depending on water pH. Lime should be broadcasted in split doses and keep the pH of pond water between 7.5-8. 2. Do health check-up of fish by periodical netting. 3. Diseased fish should be isolated from main stock and should be treated with potassium permanganate and sodium chloride based on the severity of infestation.		
General	As per NDVI map for the district the crop coverage is moderate and the district will receive slight rainfall on Saturday. No need of irrigation to the standing crops.		

Vindhyan Alluvial Zone

Crop	Stage	Variety	Advisory
General	--	--	There possibility of light rain. Spraying and irrigation should be maintained as per weather condition.
Lentil	Growth stage	--	Repeat the dose of DAP and Boron @ 20gram/liter and 2g/liter of water respectively at the age of 45 days of lentil.
Winter Vegetables	Vegetative	Pest	Management of winter vegetable pest at early vegetative stage sprays Chlorpyriphos 50% + Cypermethin 5% @ 1.5 ml/liter of water.
Mustard	Growth	Aphid	Management of mustard aphid sprays Dinoteforun 20% S G @ 0.5gram/liter of water.
Mustard	Growth	Alternaria Blight	To control alternaria blight of mustard spray mancozeb (2.5g/liter of water) or Iprodione @ 1g/liter of water.
Vegetables	Growth	Sucking pest	Management of sucking pest on vegetables crops spray dadecci @ 1.5g/liter of water with sticker @ 0.5ml/liter.
Cattle	--	--	Irrigation of fodder crops of Alfalfa and Berseem clover should be carried out every 20-30 days and for the oat crop every 20-22 days.
Fishery	Pond preparation	--	Pond preparation should be done through cultivation of Dhaincha @ 1-1.5kh/bigha for 30-45 days for seasonal & new pond.

Undulating Red and Laterite Zone

Crop	Stage	Problem	Advisory
Potato	Tuber formation	Chance of Late blight and aphid attack due to rising temperature and morning fog	--Spray a mixture of Mancozeb 2.5g/liter of water and Redomil@2.5g/liter of water --Follow 2nd top dressing and earthing up --Spray Dimethoate@1.5ml/liter of water or Imidachlorpit@3ml/5liter of water for aphid attack --If attack takes place then spray 1-3times a mixture of metalaxyl8% and Mancozeb 64%@3g/liter of water
Mustard	Siliquea formation	Pod borer	--Apply Acephate@1g/liter of water
Mango	Flowering	Fungal attack due to morning fog	--Spray fresh water to the tree --Apply a mixture of DiethaneM-45@2.5g/liter of water and Carbaryl@2g/liter of water
Sunflower	--Complete sowing --Before sowing treat the seed by soaking for 10 hours with Thirum/Captan@3g/kg of seed to ensure germination		

--Spacing should be maintained as 60cm X 30cm for hybrid variety and 45cm X 30cm for long duration variety

Andaman & Nicobar Islands

For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
Mango	Fruiting	<ul style="list-style-type: none">Control fruit fly in mango by placing pheromone trap in branches at three meter distance and collect the fallen infested fruits and dispose them by dumping and burying in 60 cm deep pits.
Arecanut/ Coconut	All	<ul style="list-style-type: none">Do mulching and husk burial around the arecanut and coconut tree to reduce moisture stress.
Poultry	Laying	<ul style="list-style-type: none">Supplement the laying poultry birds with calcium containing mineral mixtures @ 5 gm per kg of feed.

For South Andaman

Crop/Livestock	Stage	Weather based agro advisories
Mango	Fruiting	<ul style="list-style-type: none">Control fruit fly in mango by placing pheromone trap in branches at three meter distance and collect the fallen infested fruits and dispose them by dumping and burying in 60 cm deep pits.
Arecanut/ Coconut	All	<ul style="list-style-type: none">Do mulching and husk burial around the arecanut and coconut tree to reduce moisture stress.
Poultry	Laying	<ul style="list-style-type: none">Supplement the laying poultry birds with calcium containing mineral mixtures @ 5 gm per kg of feed.

For Nicobar

Crop/Livestock	Stage	Weather based agro advisories
Arecanut/ Coconut	All	<ul style="list-style-type: none">Do mulching and husk burial around the arecanut and coconut tree for soil moisture conservation.
Poultry	Laying	<ul style="list-style-type: none">Supplement the laying poultry birds with calcium containing mineral mixtures @ 5 gm per kg of feed.

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