

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

For the period from 13th February '2019 to 17th February '2019

AGROCLIMATIC REGIONS OF WEST BENGAL

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



Issued on
Tuesday, 12th 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):

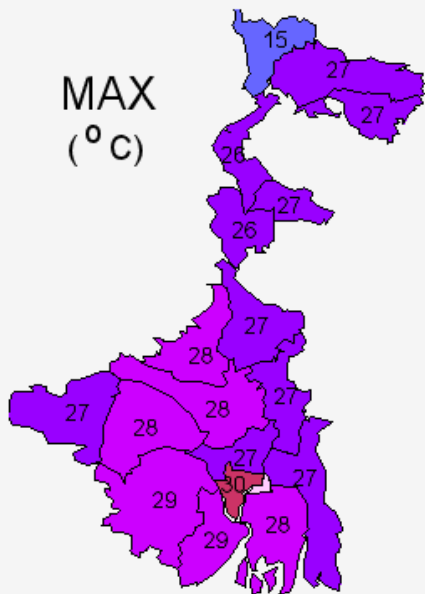
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad, Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata, Burdwan.

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

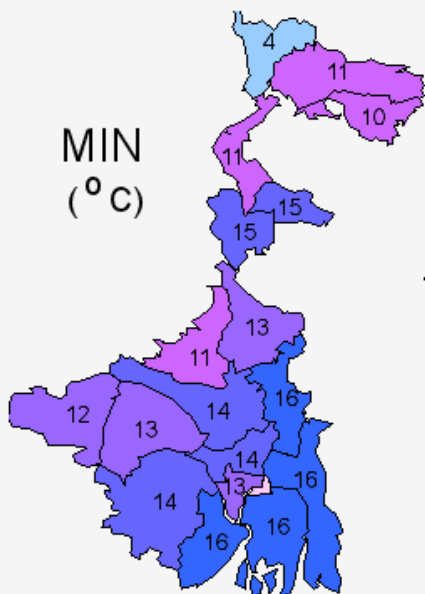
DAY 1 FORECAST

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

MAX (°C)

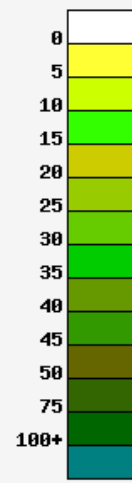
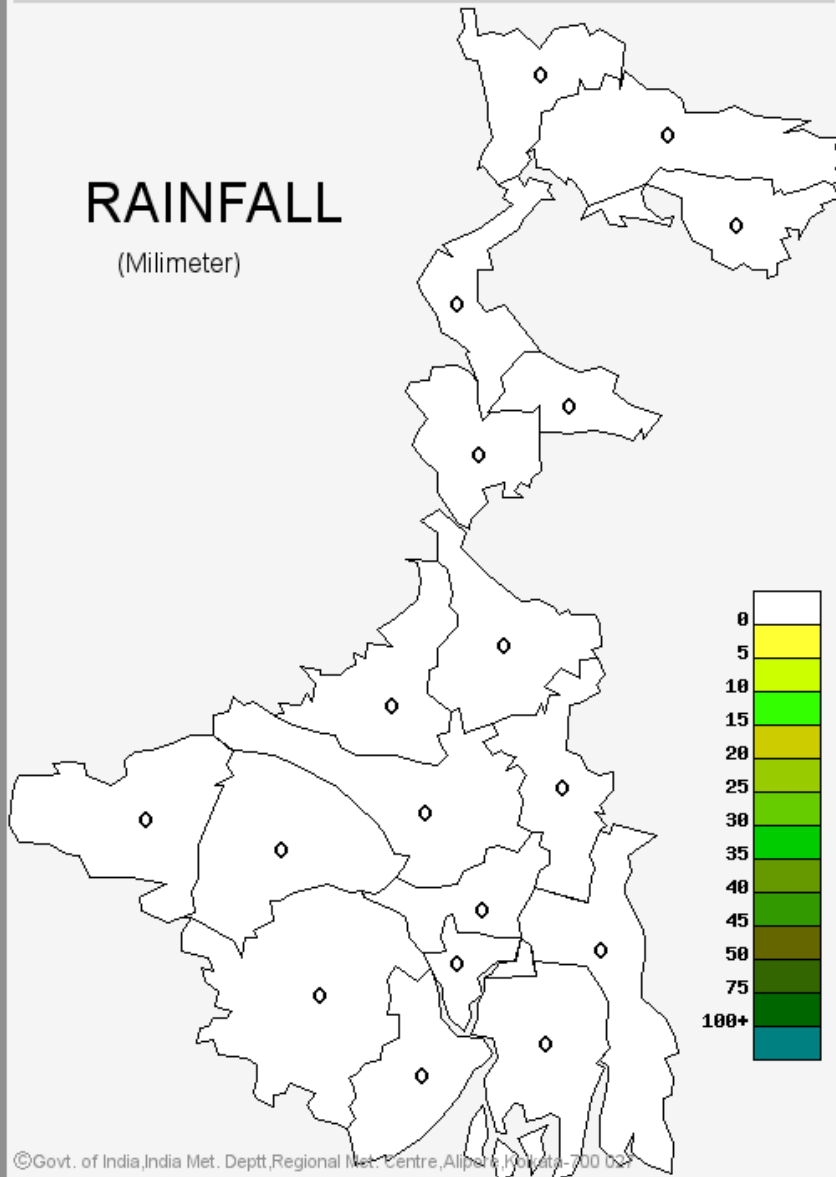


MIN (°C)



RAINFALL

(Milimeter)

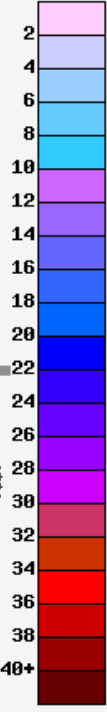
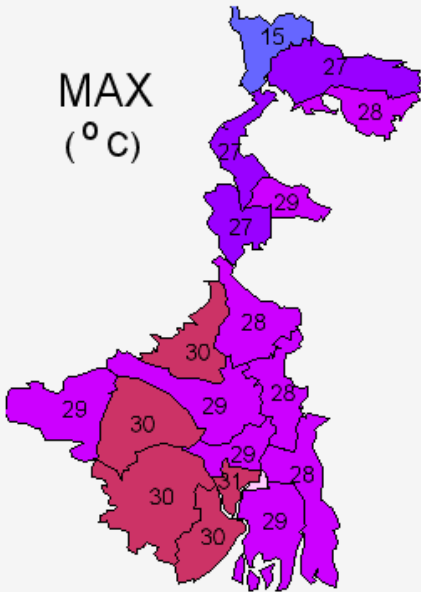


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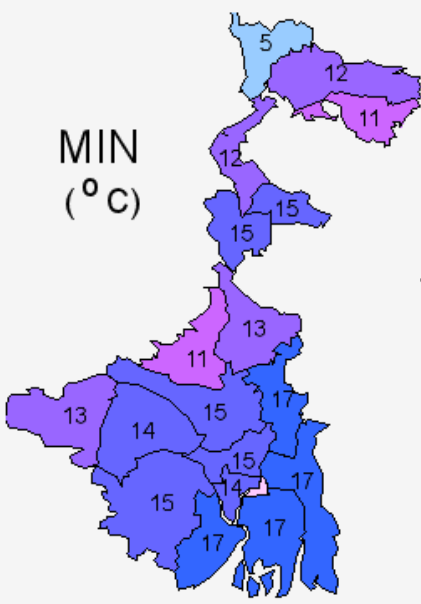
DAY 2 FORECAST

Valid up to :Thursday 14th February 2019,0830 hrs IST

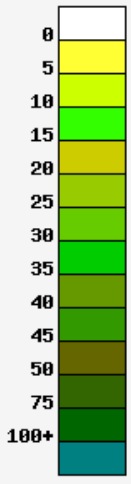
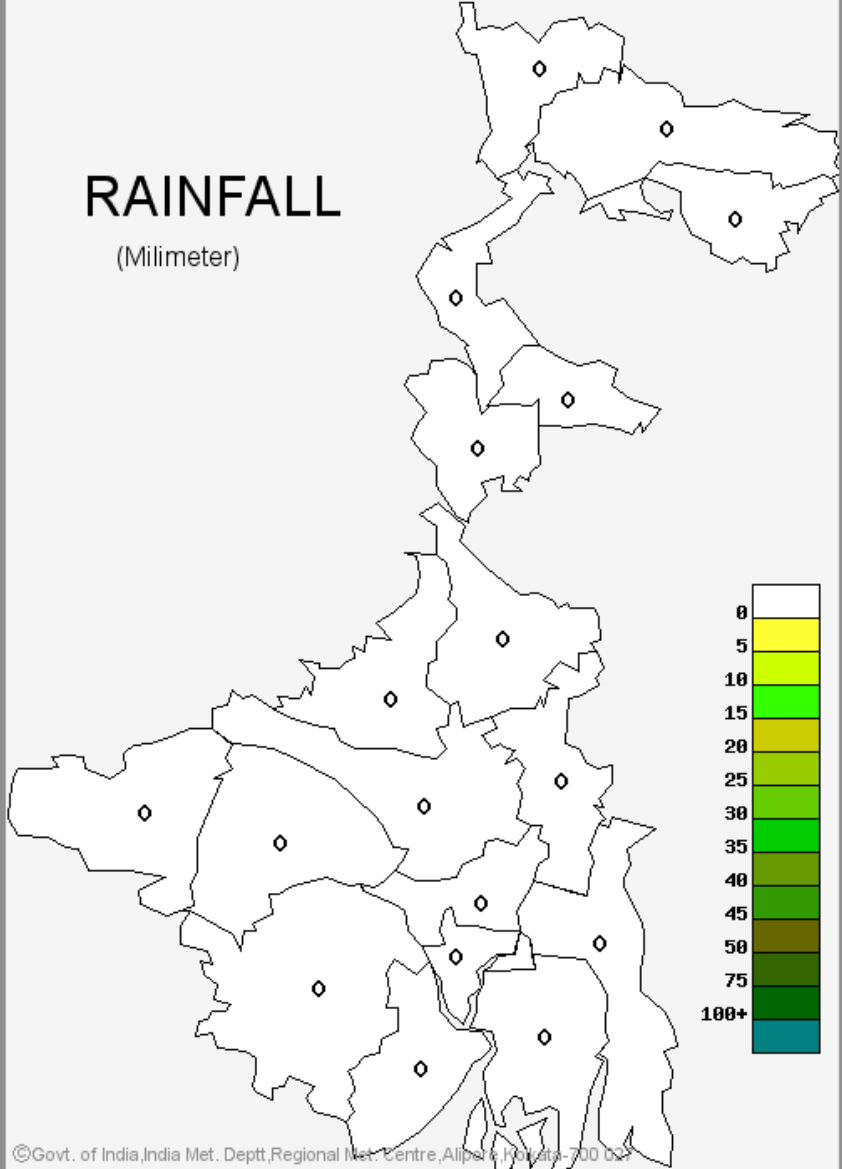
MAX
(°C)



MIN
(°C)



RAINFALL
(Milimeter)

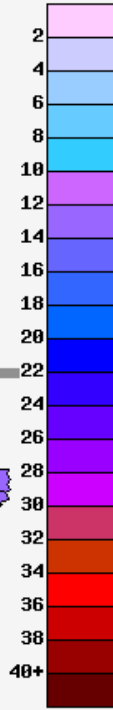
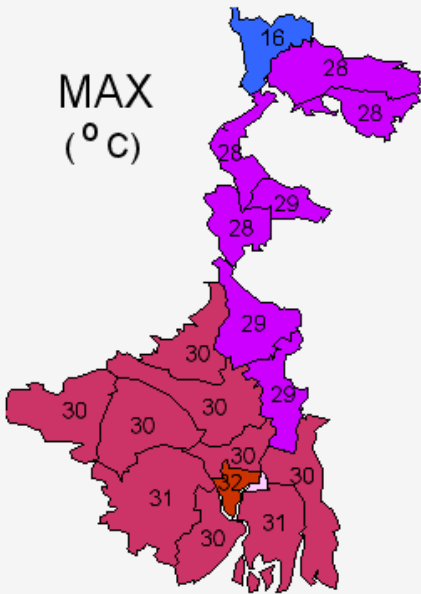


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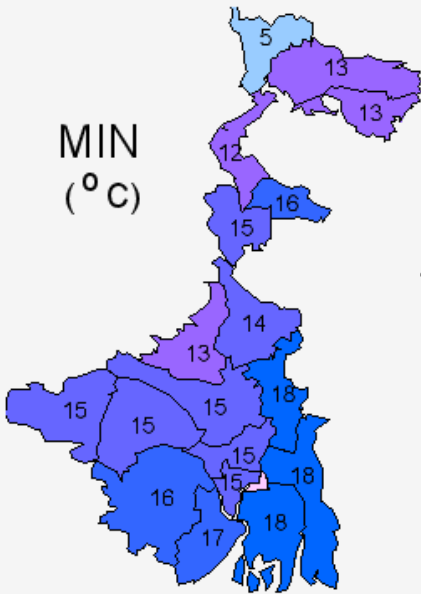
DAY 3 FORECAST

Valid up to :Friday 15th February 2019,0830 hrs IST

MAX
(°C)

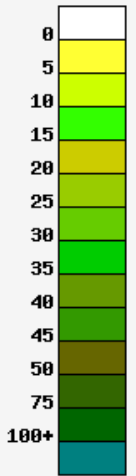
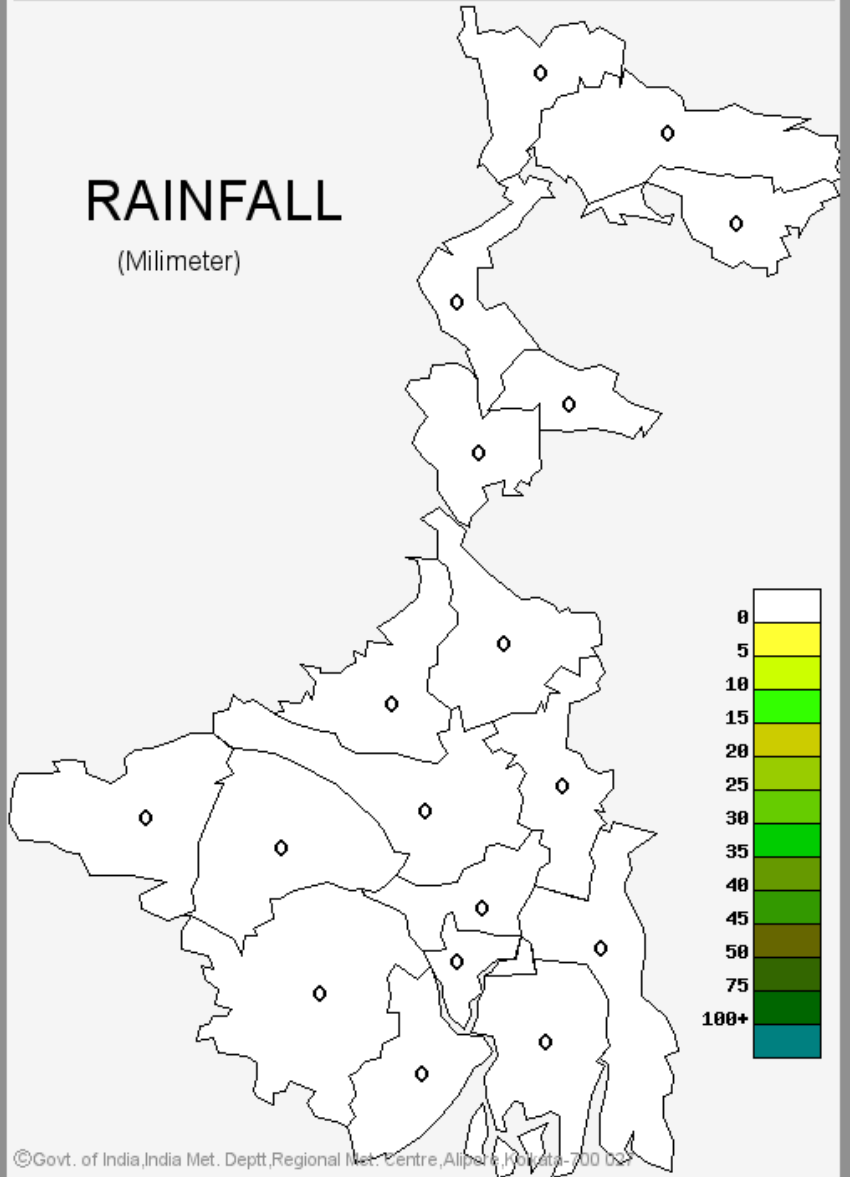


MIN
(°C)



RAINFALL

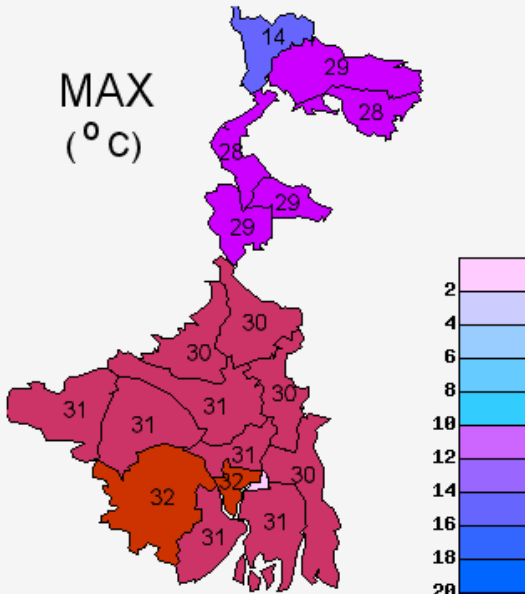
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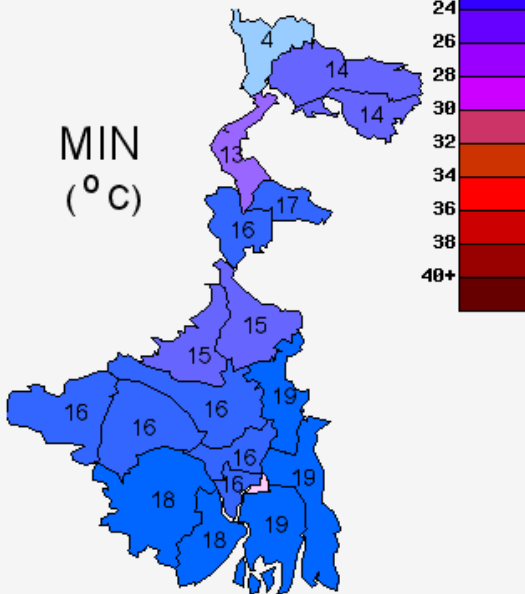
DAY 4 FORECAST

Valid up to : Saturday 16th February 2019, 0830 hrs IST

MAX
(°C)

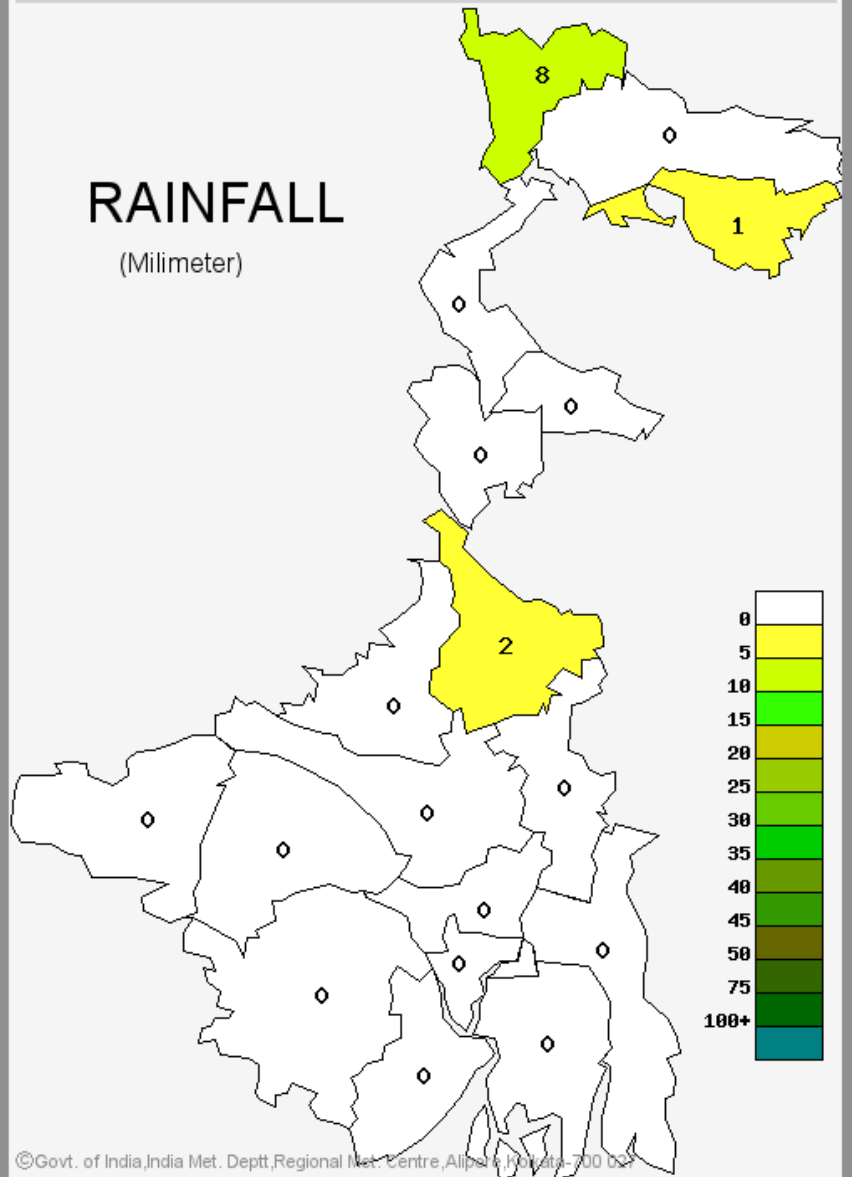


MIN
(°C)



RAINFALL

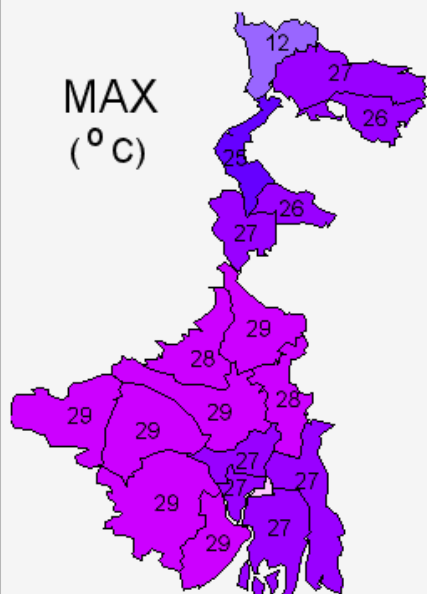
(Milimeter)



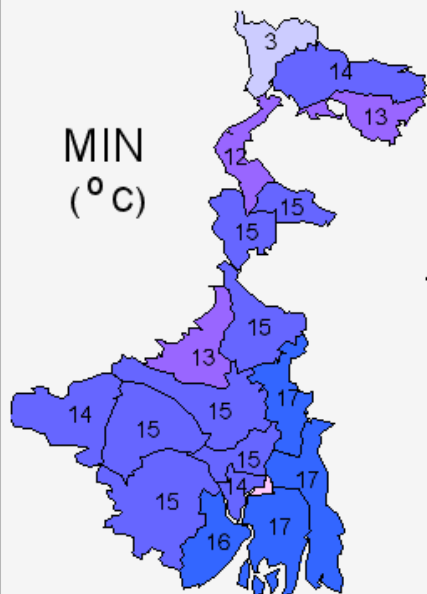
DAY 5 FORECAST

Valid up to :Sunday 17th February 2019,0830 hrs IST

MAX (°C)

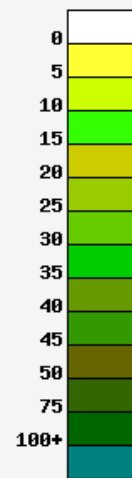
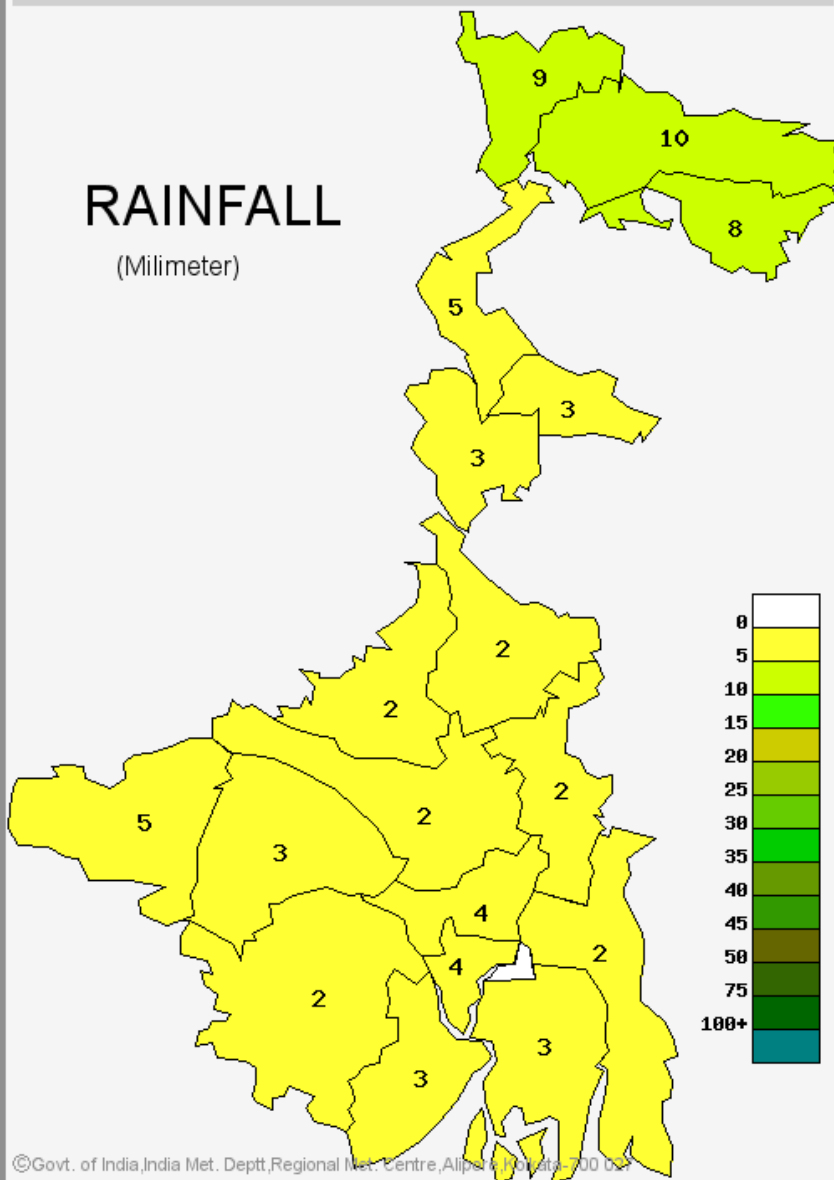


MIN (°C)



RAINFALL

(Milimeter)



Part I: Weather

Districtwise significant Past Weather in different agroclimatic zones for the period 08/02/19 to 11/02/19

District level Weather Forecast for different agroclimatic zones for the period 13/02/19 to 17/02/19

West Bengal

Northern Hill Zone

DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	1.4	10-16	3-9	80-95
Saturday	1.8			
Sunday	2.8			
Monday	0.0			

DARJEELING

Rainfall	Possibilities of moderate rainfall on 16 th , 17 th February and rest of the day's no rainfall has been forecasted. In coming five days total rainfall of 17.0 mm is expected.
Cloud Cover	Possibilities of partly clear sky on 13 th February, clear sky on 14 th February and rest of the day's mainly cloudy sky are expected.
Max. Temp.	Maximum temperature is expected to be around 12.0 to 16.0°C.
Min. Temp.	Minimum temperature is expected to be around 3.0 to 5.0°C.
Max. RH	Maximum relative humidity is expected to be around 51 - 71 %.
Min. RH	Minimum relative humidity is expected to be around 28 - 37 %.
Wind	Wind mainly will blow from easterly on 16 th , 17 th February and rest of the days wind mainly will blow from south-easterly direction. In coming five days wind mainly will blow with a speed of 6.3 - 7.3 km/hr is expected.

Terai-Teesta Alluvial Zone

COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.1	23-26	8-16	65-95
Saturday	5.8			
Sunday	2.4			
Monday	0.0			

COOCHBEHAR

- Possibility of mainly clear sky on 13th February, clear sky 14th February, mainly cloudy sky 15th, 17th February overcast 16th February.
- Possibility of light rain on 17th February and no rainfall on 13th to 16th February.
- Wind from Southerly 13th, 15th February, south westerly 14th 16th February & Easterly 17th February direction with average speed of 7.3-7.9 km/hr. is expected.
- Maximum temperature is expected to be around 25-28°C and minimum temperature is expected to be 11-13°C
- Maximum and minimum relative humidity is expected to be 56-83% and 27-45% respectively

JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.4	23-27	10-16	55-95
Saturday	7.3			
Sunday	5.0			
Monday	0.0			

JALPAIGURI

- Possibility of partly clear sky on 13th February, clear sky 14th February, mainly cloudy on 15th, 16th & 17th February.
- Possibility of very light rain 16th February, moderate rain on 17th February and no rainfall on 13th to 15th February.
- Wind from North Easterly 13th, 15th February & easterly direction 16th, 17th February with average speed of 6.7-7.7 km/hr. is expected.
- Maximum temperature is expected to be around 26-28°C and minimum temperature is expected to be 10-14°C
- Maximum and minimum relative humidity is expected to be 46-50% and 24-34% respectively.

NORTH DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	23-25	8-10	63-93
Saturday	11.4			
Sunday	15.2			
Monday	0.0			

NORTH DINAJPUR

- Possibility of partly clear sky on 13th February, clear sky 14th February, mainly cloudy on 15th, 16th & 17th February
- Possibility of moderate rain on 17th February and no rainfall on 13th to 16th February.
- Wind from North-easterly 13th, 16th February, easterly 14th, 15th & 17th February, direction with average speed of 6.7-7.7 km/hr. is expected.
- Maximum temperature is expected to be around 27-29°C and minimum temperature is expected to be 11-14°C
- Maximum and minimum relative humidity is expected to be 47-64% and 25-30% respectively.

Gangetic Alluvial Zone

BURDWAN

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-28	13-18	80-85
Saturday	0.0			
Sunday	0.1			
Monday	0.0			

BURDWAN

Clear sky to partly cloudy sky on (13th , 16th & 17th Feb.) is expected during next 5 days .

No rainfall to little rainfall (16th , 17th Feb.) is expected during rest 5 days and total will be 21 mm. Wind flow mainly from N, S, NW direction with 7.6-13.7 km/hr. speed during next 5 days is expected. Maximum relative humidity is expected to be around 52%-80% and minimum relative humidity is expected to be around 19% - 57%.

Maximum temperature is expected to be around 25°C – 32°C and minimum temperature is expected to be around 14°C - 17°C .

MURSHIDABAD

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	24-27	11-16	35-90
Saturday	4.0			
Sunday	0.0			
Monday	0.0			

MURSHIDABAD

NADIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-29	16-17	75-85
Saturday	2.0			
Sunday	0.0			
Monday	0.0			

NADIA

HOOGHLY

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	25-30	13-18	35-90
Saturday	0.1			
Sunday	0.0			
Monday	0.0			

HOOGHLY

HOWRAH

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-31	11-14	85-95
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

HOWRAH

NORTH 24 PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-30	13-19	25-75
Saturday	0.0			
Sunday	0.0			
Monday	0.1			

NORTH 24 PGS

Clear sky to partly cloudy sky on (16th, 17th

Feb.) is expected during next 5 days .

No rainfall to little rainfall (17th Feb.) is expected during rest 5 days and total will be 4 mm.

Wind flow mainly from N, W & S direction with 9– 12.6 km/hr. speed during next 5 days is expected. Maximum relative humidity is expected to be around 46% - 75% and minimum relative humidity is expected to be around 21% - 47%.

Maximum temperature is expected to be around 28°C – 33°C and minimum temperature is expected to be around 13°C-18 °C .

Vindhyan Alluvial Zone**DAKSHIN DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	24-25	--	75-85
Saturday	1.0			
Sunday	0.1			
Monday	0.1			

DAKSHIN DINAJPUR

- Possibility of mainly clear on 13th February, clear on 14th February, mainly cloudy on 15th & 17th February and overcast sky on 16th February.
- There seems to be possibility of no rain on 13th to 16th February and light rain on 17th February.
- Wind from Westerly, North-westerly and Easterly direction with an average speed of 6.7-9.4 Km/hr. is expected.
- Maximum temperature is expected to be around 26.0-29.0⁰C and minimum temperature is expected to be 15.0-17.0⁰C.
- Maximum and minimum relative humidity is expected to be 59-83% and 26-48% respectively.

MALDA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	23-25	13-19	55-95
Saturday	8.4			
Sunday	0.8			
Monday	0.0			

MALDA

- Possibility of mainly clear sky on 13th & 14th February, mainly cloudy on 15th & 17th February and overcast sky on 16th February.
- There seems to be possibility of no rain on 13th to 16th February and light rain on 17th February.
- Wind from Northerly, North-westerly, Westerly and South-easterly direction with an average speed of 07.4-10.2 Km/hr. is expected.
- Maximum temperature is expected to be around 26.0-29.0⁰C and minimum temperature is expected to be 15.0-16.0⁰C.
- Maximum and minimum relative humidity is expected to be 63-82% and 28-42% respectively.

Coastal Saline Zone

PURBA MIDNAPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-31	10-19	25-95
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

PURBA MIDNAPUR

- Light rainfall is predicted 17th February and no rainfall is predicted in the remaining days.
- Sky will be partly cloudy in 16th February and clear in the remaining days.
- Wind speed will be 7.3-9.6 km/sec. and the predominant wind direction will be South-Easterly to Northerly.
- Maximum temperature is expected to be around 26.0^oC -32.0^oC and minimum temperature is likely to be around 14.0^oC-16.0^oC.
- Maximum and minimum relative humidity will be in the range of 43% -80% and 22% -51%.

SOUTH 24-PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-31	12-19	35-95
Saturday	0.3			
Sunday	0.5			
Monday	0.0			

SOUTH 24-PGS

- Light rainfall is predicted 17th February and no rainfall is predicted in the remaining days.
- Sky will be partly cloudy in 16th February and clear in the remaining days.
- Wind speed will be 8.7-12.8 km/sec. and the predominant wind direction will be Easterly to Northerly.
- Maximum temperature is expected to be around 27.0^oC -33.0^oC and minimum temperature is likely to be around 14.0^oC-18.0^oC.
- Maximum and minimum relative humidity will be in the range of 45% -74% and 24% -48%.

Undulating Red and Laterite Zone**PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-31	13-20	25-85
Saturday	0.8			
Sunday	0.0			
Monday	0.0			

PASCHIM MIDNAPORE

- Very light rainfall on Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Northwesterly. Wind with a speed of 7.3-10.3 km per hour will blow for coming five days.
- Relative humidity maximum will be 40-79 % and minimum will be 19-50%
- Maximum temperature will be 29-32°C and minimum will be 14-18°C.

BANKURA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-29	11-18	40-95
Saturday	1.8			
Sunday	0.9			
Monday	0.0			

BANKURA

- Very light rainfall on Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Northwesterly. Wind with a speed of 7.7-13.5 km per hour will blow for coming five days.
- Relative humidity maximum will be 48-81 % and minimum will be 17-55%
- Maximum temperature will be 28-31°C and minimum will be 13-16°C.

PURULIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	25-27	12-12	45-85
Saturday	0.1			
Sunday	0.0			
Monday	0.0			

PURULIA

- Very light rainfall on Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Northwesterly. Wind with a speed of 7.7-13.5 km per hour will blow for coming five days.
- Relative humidity maximum will be 48-81 % and minimum will be 17-55%
- Maximum temperature will be 27-31°C and minimum will be 13-16°C.

BIRBHUM

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	25-29	10-17	45-95
Saturday	2.7			
Sunday	0.0			
Monday	0.0			

BIRBHUM

- Very light rainfall on Sunday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Northwesterly. Wind with a speed of 8.1-11.7 km per hour will blow for coming five days.
- Relative humidity maximum will be 57-78 % and minimum will be 23-45%
- Maximum temperature will be 28-30°C and minimum will be 11-15°C.

Andaman & Nicobar Islands**ANDAMAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-33	22-25	70-95
Saturday	0.0			
Sunday	0.0			
Monday	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 32.0 to 33.0 °C with minimum temperature of 21.0 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 73 to 84 % and 63 to 75 % respectively in North and Middle Andaman. Wind speed of 7.8 to 17.3 km/h is expected from North Easterly direction.

SOUTH ANDAMAN.

➤

NICOBAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	23-29	21-27	70-85
Saturday	0.0			
Sunday	50.6			
Monday	0.0			

NICOBAR

- Partly cloudy weather with light to moderate rainfall is likely to occur during next five days. In Nicobar Islands 20.0 mm of rainfall is expected during this period. The maximum temperature will be 31.0 to 32 °C with minimum temperature of 28 °C, whereas the maximum and minimum relative humidity is expected to be 80 to 82 %, and 73 to 78 %, respectively in Nicobar Islands. Wind speed of 12.9 to 28.2 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 moderate rainfall on 16 th , 17 th February and rest of the day's no rainfall has been forecasted so, irrigate the crops as per the requirement and proper drainage channel should be maintained.
Large cardamom	Vegetative Stage	-	Mulching should be done to conserve soil moisture and control weeds.
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. Irrigate the orchard as per the requirement as 17.0mm rainfall has been forecasted for coming five days.
Cole Crop (Cauliflower, Cabbage, etc)	Harvesting stage	-	Mature crop should be harvested.
Potato	Tuberization Stage	-	Weeding should be done and irrigate the crops as per the requirement as 17.0 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 should be given as per the requirement for better siliqua formation because moderate rainfall (17mm) on 16 th and 17 th February and the remaining days with no rainfall have been forecasted.
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.

Terai-Teesta Alluvial Zone

Advisory			
GENERAL	Possibility of light rain on 17 th February and no rainfall on 13 th to 16 th February		
Agriculture and Horticulture			
Main Crops	Stage	Pest & Diseases	Advisory
Boro Rice	Transplanting		Spraying the seedlings with hexaconazole @ 1ml/lit of water before transplanting, in case of brown collared spots on leaves.
Wheat		Foliar blight	Plants with yellowish patches on leaves to be sprayed with Tebuconazole @1ml/lit of water
Crucifers	Mustard(Pod development)	Leaf Spot	In case of spots on leaves with concentric rings to be sprayed with carbendazim@ 1g/lit of water.
Potato		Late blight/Root/ Collor rot	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. Plants with yellowing of lower leaves and rotting at base to be sprayed with propiconazole @1ml/lit of water.
Maize	Seedling to maturity	Tall army worm	Spray Azadirachtin/Neem oil 10000 ppm @ 4 ml/lit or Emamectin benzoate @ 0.4 g/lit targeted to leaf whorls with constant monitoring.
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.
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/lit. of water.
Animal Husbandry			
Name of Animal	Disease	Control measures	
Cattle and Buffalo	Non specific Diarrhoea, FMD	The cattle population are supposed to suffer from non-specific diarrhea during this, mid rainy season due to water borne infections. Any gut acting antibacterials along with remonetric preparation may lead to satisfactory result. FMD may also consider during this hot humid condition. Appropriate Vaccination coverage. Anthelminitics of course for animals in proper doses is also advisable for better production potentials.	
Chicken	pox	Care for day old 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
According to NDVI data sent by IMD agricultural vigour of New Alluvial Zone of West Bengal will be Moderate in the coming week.		
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/lit) and Fosetyl Al (Alliet) (2.5g/lit) 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 pest	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 Tricyclozole@5-6g/10liter of water in the seed bed before uprooting the seedlings
Mustard	Siliqua 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 Diethane M-45 @ 2.5g/liter of water and Carbaryl @ 2g/liter of water
Poultry	Chicks and brooder	Effect of low temperature	--Increase the number of bulb per cage for controlling temperature --Apply warm water for drinking purpose --Keep the litter dry and clean
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		

Vindhyan Alluvial Zone

Crop	Stage	Variety	Advisory
General	--	--	There is possibility of suitable weather condition (no rain on 13 th to 16 th February and favorable wind speed) so spraying should be done properly.
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 Chlorpyrifos 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 dadedci @ 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
Boro rice	Active Tillering	Weeds Blast	Remove the weeds by hand weeding in the field and Keep the bunds clean. Maintain the water level upto 2 cm in the field. Apply 7.3 kg Urea per bigha at 20 days after transplanting. Avoid excess nitrogen application. Spray Tricyclozole 75WP @ 1g/lit of water.
Wheat	Flowering Dough stage	---	Keep the field weed free. Give irrigation to the crop and avoid the unnecessary chemical applications at this stage. It is the final growth stage of the crop. Give light irrigation.
Potato	Tuber bulking	Late blight	Give light irrigation to the crop. Apply Mancozeb @ 2.5g/lit of water at an interval of 5-7 days.
Pointed gourd	Vegetative stage	Downy mildew	Apply Ridomil @ 2g/lit of water at late afternoon.
Fishery	Fishery Management: 1. Use of lime at every week @ 1.2kg/decimal. 2. For any bacterial disease infection Dip treatment of fish in coppersulphate @ 5mg/lit of water for 1 minute. 3. Broadcast 6-7g potassium permanganate for decimal water body for continue 7 days at night. 4. For Ulcerative syndrome harvest all ate fish from pond.		

Andaman & Nicobar Islands

For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Vegetative	<ul style="list-style-type: none">• Spray Imidacloprid @ 2 ml /lit and Acephate 2 g/lit alternatively once in two week to control thrips, leaf hopper and other sucking pests in vegetables.
Fish	Matured	<ul style="list-style-type: none">• Perform repair work of fish pond and with the trail netting harvest the matured fishes and remove wild fishes.
Poultry	All	<ul style="list-style-type: none">• Provide cool drinking water with electrolyte to the poultry birds to reduce mortality as the weather is likely to be dry.

For South Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Vegetative	<ul style="list-style-type: none">• Spray Imidacloprid @ 2 ml /lit and Acephate 2 g/lit alternatively once in two week to control thrips, leaf hopper and other sucking pests in vegetables.
Fish	Matured	<ul style="list-style-type: none">• Perform repair work of fish pond and with the trail netting harvest the matured fishes and remove wild fishes.
Poultry	All	<ul style="list-style-type: none">• Provide cool drinking water with electrolyte to the poultry birds to reduce mortality as the weather is likely to be dry.

For Nicobar

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Sowing	<ul style="list-style-type: none">• Do line sowing of vegetable seeds in raised bed with proper drainage facility.
Poultry	All	<ul style="list-style-type: none">• Provide cool drinking water with electrolyte to the poultry birds to reduce mortality as the weather is likely to be dry.

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