

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

For the period from 17th Oct '2018 to 21st June '2018

AGROCLIMATIC REGIONS OF WEST BENGAL

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



Issued on
Friday, 16th Oct '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	Northern Hill Zone	Darjeeling	Kalimpong
2	Terai-Teesta Alluvial Zone	Jalpaiguri, Coochbehar and Uttar Dinajpur.	Pundibari
3	Gangetic Alluvial Zone	Murshidabad, Nadia, North 24 Parganas, Howrah, Hooghly and Burdwan	Kalyani
4	Vindhyan Alluvial Zone	Dakhin Dinajpur, Malda	Majhian
5	Costal Saline Zone	South 24 Parganas and Purba Midnapore	Kakdeep
6	Undulating Red and Laterite Zone	Purulia, Bankura, Paschim Midnapore and Birbhum	Kharagpur

Met sub-divisions of the state

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

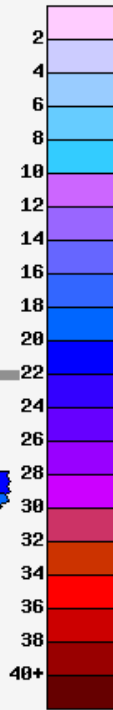
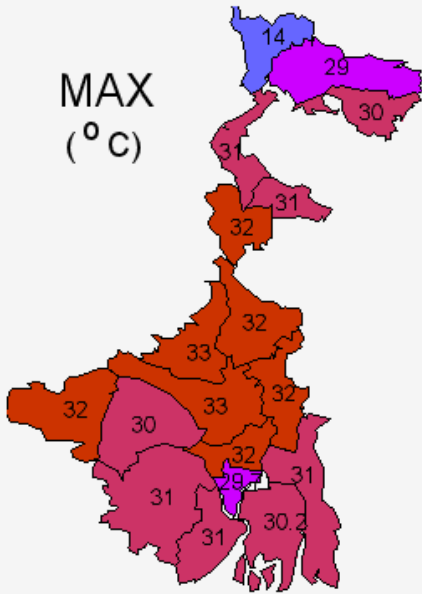
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad, Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Purba Midnapore, Kolkata, Burdwan.

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

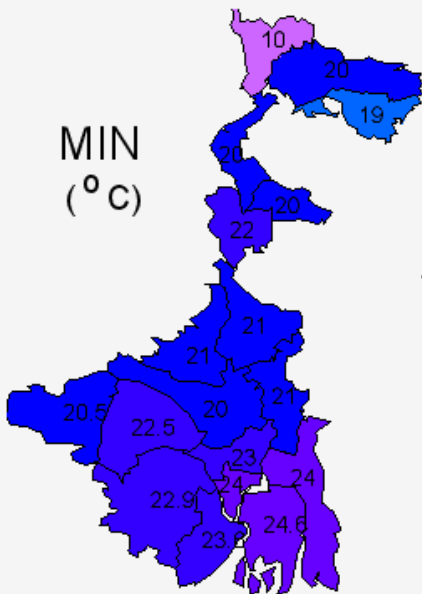
DAY 2 FORECAST

Valid up to :Thursday 18th October 2018,0830 hrs IST

MAX
(°C)

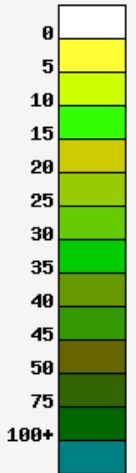
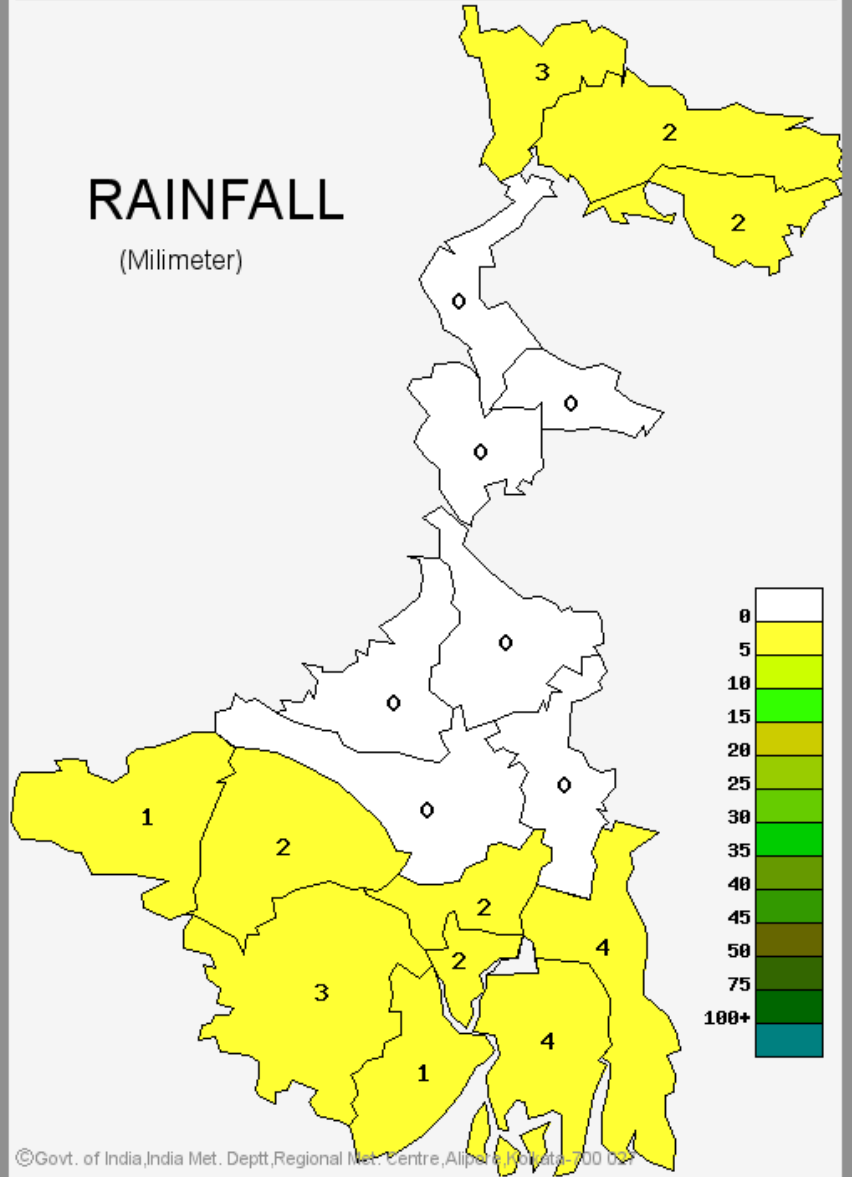


MIN
(°C)



RAINFALL

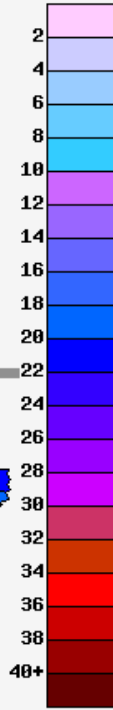
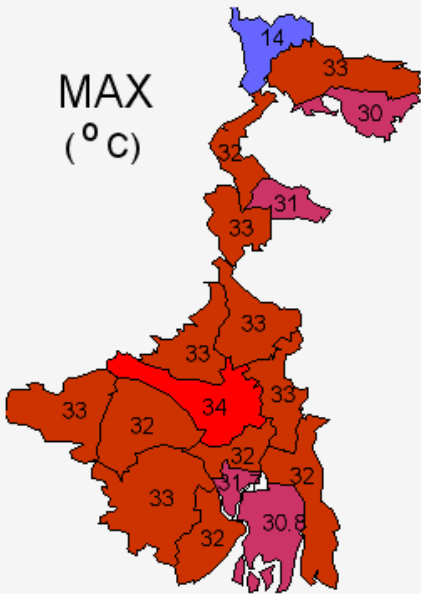
(Milimeter)



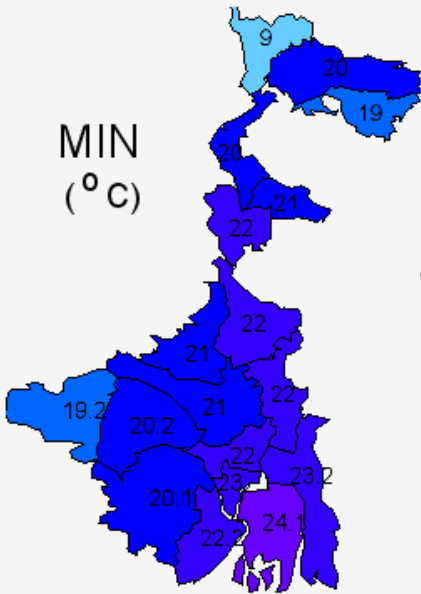
DAY 5 FORECAST

Valid up to :Sunday 21st October 2018,0830 hrs IST

MAX
(°C)

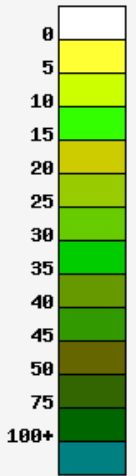
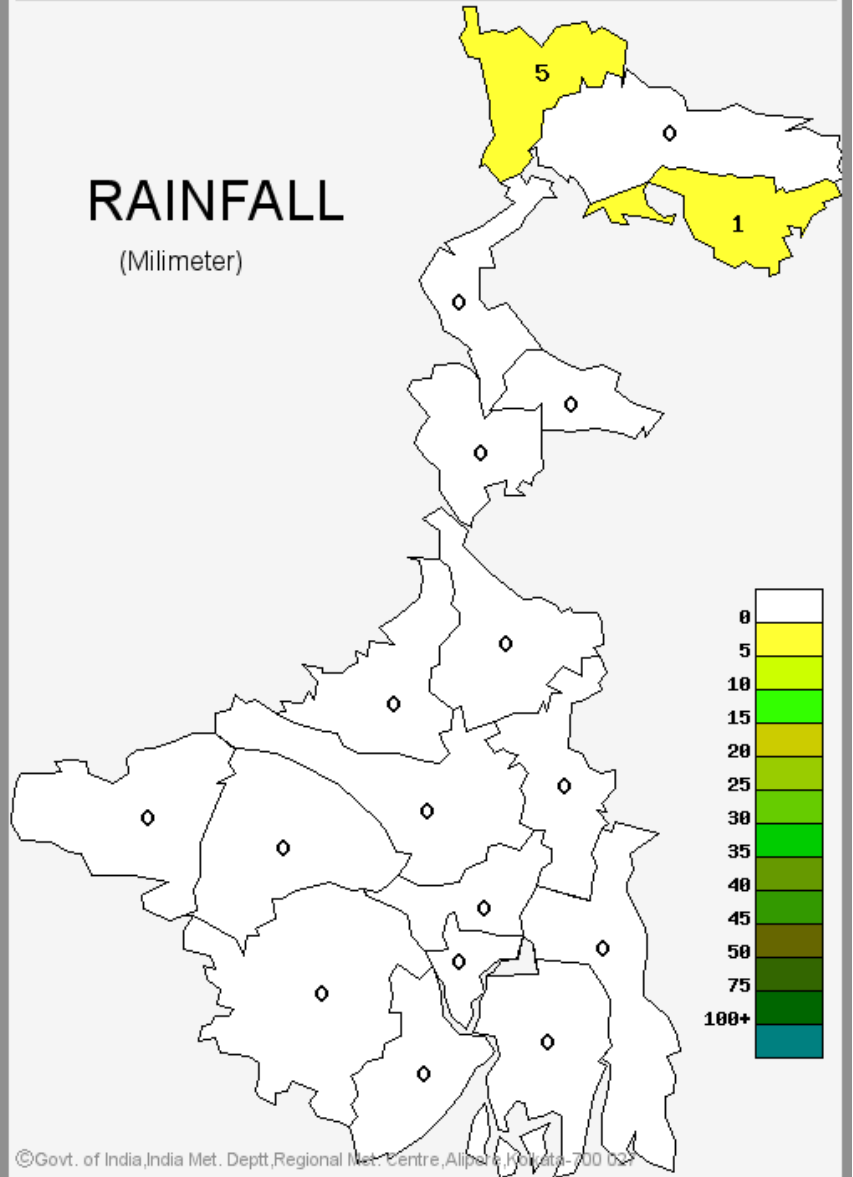


MIN
(°C)



RAINFALL

(Milimeter)



Part I: Weather

Districtwise significant Past Weather in different agroclimatic zones for the period 12/10/18 to 15/10/18

District level Weather Forecast for different agroclimatic zones for the period 17/10/18 to 21/10/18

West Bengal

Northern Hill Zone

DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	3.0	--	11-11	95-95
Saturday	--			
Sunday	---			
Monday	--			

DARJEELING

Rainfall	Possibilities of moderate rainfall on 19 th , October and rest of the day's light rainfall expected. In next five days total rainfall of 28.0 is expected.
Cloud Cover	Possibilities clear sky is expected for coming days.
Max. Temp.	Maximum temperature is expected to be around to 15°C.
Min. Temp.	Minimum temperature is expected to be around 11°C.
Max. RH	Maximum relative humidity is expected to be around 82- 88%.
Min. RH	Minimum relative humidity is expected to be around 50-63%.
Wind	Wind mainly will blow from easterly on 17 th , Oct and rests of the day's wind mainly blow in south-easterly direction with a speed of 1. km/hr is expected.

Terai-Teesta Alluvial Zone

COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	4.4	30-31	21-22	85-95
Saturday	0.1			
Sunday	0.1			
Monday	0.0			

COOCHBEHAR

- Clear sky will remain from 17th to 21st October.
- No rainfall will occur on 17th October and very light rainfall will occur from 18th to 21st October.
- Wind easterly from 17th to 21st October, average speed of 2-2 km/hr. is expected.
- Maximum temperature is expected to be around 30-30°C and minimum temperature is expected to be 19-20°C.
- Maximum and minimum relative humidity is expected to be 83-83% and 51-56% respectively.
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JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	1.8	31-32	20-22	65-95
Saturday	1.2			
Sunday	0.0			
Monday	0.0			

JALPAIGURI

- Clear sky will remain from 17th to 21st October.
- No rainfall will occur on 17th, 21st October, very light rainfall will occur on 18th October and light rainfall will occur from 19th to 20th October.
- Wind north easterly on 17th, 20th, 21st October and easterly from 18th to 19th October, average speed of 2-2 km/hr. is expected.
- Maximum temperature is expected to be around 29-33°C and minimum temperature is expected to be 19-20°C.
- Maximum and minimum relative humidity is expected to be 78-86% and 50-58% respectively.
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NORTH DINAJPUR

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

NORTH DINAJPUR

- Clear sky will remain from 17th to 21st October.
- No rainfall will occur on 17th October and very light rainfall will occur from 18th to 21st October.
- Wind easterly from 17th to 21st October, average speed of 2-2 km/hr. is expected.
- Maximum temperature is expected to be around 31-32°C and minimum temperature is expected to be 19-20°C.
- Maximum and minimum relative humidity is expected to be 78-87% and 44-50% respectively.
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Gangetic Alluvial Zone**BURDWAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	2.0	29-31	21-25	70-90
Saturday	14.0			
Sunday	8.4			
Monday	0.0			

BURDWAN**MURSHIDABAD**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	15.0	32-33	22-25	70-95
Saturday	12.0			
Sunday	17.0			
Monday	0.0			

MURSHIDABAD**NADIA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	6.6	27-31	24-25	70-95
Saturday	11.0			
Sunday	10.0			
Monday	0.0			

NADIA**HOOGHLY**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	29-33	22-25	60-95
Saturday	10.6			
Sunday	0.0			
Monday	0.0			

HOOGHLY

HOWRAH

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.1	24-29	22-24	85-95
Saturday	--			
Sunday	15.4			
Monday	0.0			

HOWRAH**NORTH 24 PGS**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.8	29-33	23-25	65-95
Saturday	28.8			
Sunday	5.9			
Monday	0.0			

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

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	9.6	32-34	22-26	55-90
Saturday	0.1			
Sunday	0.0			
Monday	0.0			

DAKSHIN DINAJPUR**MALDA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	26.5	30-32	22-23	55-95
Saturday	12.5			
Sunday	0.0			
Monday	0.0			

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

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.4	29-32	23-26	85-95
Saturday	53.2			
Sunday	0.1			
Monday	0.0			

PURBA MIDNAPUR

SOUTH 24-PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.1	30-33	23-25	65-95
Saturday	33.7			
Sunday	1.3			
Monday	0.0			

SOUTH 24-PGS**Undulating Red and Laterite Zone****PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	3.2	24-33	21-25	65-95
Saturday	18.7			
Sunday	0.7			
Monday	0.0			

PASCHIM MIDNAPORE

- Moderate rainfall on Saturday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southwesterly. Wind with a speed of 1.6-2.0 km per hour will blow for coming five days.
- Relative humidity maximum will be 68-78 % and minimum will be 42-44 %
- Maximum temperature will be 33-34°C and minimum will be 23-24 °C

**BANKURA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	12.9	25-33	21-25	75-95
Saturday	16.7			
Sunday	0.1			
Monday	0.0			

BANKURA

- Moderate rainfall on Saturday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southwesterly. Wind with a speed of 1.4-2.2 km per hour will blow for coming five days.
- Relative humidity maximum will be 65-73 % and minimum will be 36-40 %
- Maximum temperature will be 32.9-34°C and minimum will be 19.8-20.8 °C

**PURULIA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	25.0	28-31	20-23	55-95
Saturday	9.0			
Sunday	0.0			
Monday	0.0			

PURULIA

- Moderate rainfall on Saturday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southwesterly. Wind with a speed of 1.4-2.3 km per hour will blow for coming five days.
- Relative humidity maximum will be 59-71 % and minimum will be 31-37 %
- Maximum temperature will be 32.6-34.6°C and minimum will be 18.9-19.5 °C

**BIRBHUM**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	3.2	25-33	20-25	75-90
Saturday	18.7			
Sunday	0.7			
Monday	0.0			

BIRBHUM

- Moderate rainfall on Saturday and partially clear sky will be present for the coming five days.
- Predominant wind direction will be Southwesterly. Wind with a speed of 1.1-1.7 km per hour will blow for coming five days.
- Relative humidity maximum will be 65-71 % and minimum will be 37-39 %
- Maximum temperature will be 31.9-33.4°C and minimum will be 20.4-21 °C

**Andaman & Nicobar Islands**

ANDAMAN

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	17.1	29-31	24-26	70-95
Saturday	1.4			
Sunday	0.0			
Monday	0.5			

NORTH MIDDLE ANDAMAN**SOUTH ANDAMAN.****NICOBAR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	2.2	33-33	25-26	80-95
Saturday	--			
Sunday	2.3			
Monday	---			

NICOBAR

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 19 th , 20 th October and rest of the day's light rainfall has been forecasted so, irrigate the crops as per the requirement and proper drainage system should be maintained in the field.
Large cardamom	Vegetative and harvesting Stage	-	Harvesting of capsule should be completed. The harvested capsule should be taken care of for discolouration and kept in shade for drying before given into Batti (improve Batti).
Mandarin	Vegetative and bearing	-	Painting of trunk with 1% Bordeaux mixture should

Orange	tree		be done (If not done earlier) after the receding of rain. Application of FYM @ 1 basket (30-40 kg) per tree should be done (If not done earlier) and spraying of micro nutrient 0.5% ZnSO ₄ + 0.4% Boron (Borax).
Cymbidium orchid	Spike initiation stage	-	Weeding is to be done along with removal of yellow leaves. Care should be taken not to disturb the spike.
Soybean	Pod filling Stage	-	Weeding should be done and irrigate the field as per the requirement.
Ginger	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants should be done.
Turmeric	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants should be done.
Rice	Booting Stage	Blast disease	Alternative wetting and drying should be given without cracking of the soil. Spray tricyclazole 75% WP @ 0.5 gm/lit of water (If not sprayed earlier) as a preventive measure to manage the blast disease.
Round Chilli	Harvesting Stage	-	Harvesting should be continued.
Animal Husbandry (Goat)	-	-	Goat kids lose body energy very rapidly when exposed to cold or wet environment and may become weak or die. Ensure good management practices and feeding during these seasons.

Terai-Teesta Alluvial Zone

Advisory

General Cattle and Buffalo -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.

Agriculture and Horticulture

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

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Undulating Red and Laterite Zone

Crop	Stage	Problem	Advisory
Direct seeded Paddy	Yellow ripe/Dough Milking	--- --- Rice Gundhi Bug	Provide drainage channels to remove the water from the field. Give proper bunding to hold the water in the field. Spray Neem Oil @5ml/lit of water during early hours of the day at clear weather condition.
ransplanted paddy	Yellow ripe/Dough Milking	--- --- Rice Gundhi Bug	Provide drainage channels to remove the water from the field. Maintain the water depth at 2 cm in the field. Spray Neem Oil @5ml/lit of water during early hours of the day at clear weather condition.
Tomato	Fruit development	Whitefly	Uproot and destroy the diseased leaf curl plants. Spray Dimethoate 30% EC@ 1ml/lit of water.
Chillies	---	Yellow mite/ Thrips	Remove and destroy the affected plant parts. Spray Dimethoate 30% EC@ 1ml/lit of water at clear weather condition.
Brinjal	---	Stem borer	Collect and destroy the damaged and dead plants. Spray Neem oil @ 5ml/lit of water at clear weather condition.
General (NDVI, SPI)	Crop coverage is good and mildly dry condition in the district. Farmers are advised to provide proper bunds to hold water in the field.		

Andaman & Nicobar Islands

For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
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		•

For South Andaman

Crop/Livestock	Stage	Weather based agro advisories
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		•
		•
		•

For Nicobar

Crop/Livestock	Stage	Weather based agro advisories

		•
		•

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