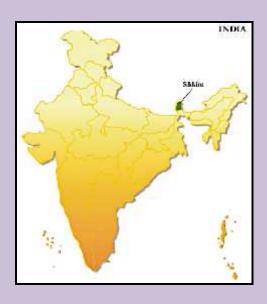


## STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 5th JUNE to 9th JUNE' 2019

# IMD, GANGTOK IN COLLABORATION WITH ICAR, GANGTOK, FSAD AND HCCD, GANGTOK





#### ISSUED ON TUESDAY 4th JUNE'2019

## Meteorological Sub-division of Sikkim

As per India Meteorological Department's classification, Sikkim is a part of Met Sub-Division of Sub Himalayan West Bengal & Sikkim (SHWB & SKM) and is divided into four (4) Districts:

- 1) North District with HQ at Mangan
- 2) East District with HQ at Gangtok
- 3) West District with HQ at Gyalsing
- 4) South District with HQ at Namchi

Issued by: Santanu Das, SMS (Agril. Meteorology), ICAR-KVK, East Sikkim, Ranipool

### **Value Added forecast for NORTH-DISTRICT for next five days**

Parameter/Date	05/06/2019	06/06/2019	07/06/2019	08/06/2019	09/06/2019
Rainfall (mm)	Very light rainfall	Light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp ( <sup>0</sup> C)	30	30	29	28	27
Min Temp ( <sup>0</sup> C)	19	19	18	17	17
Sky condition	Partially clear	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	90	92	93	94
Min RH (%)	67	67	72	74	77
Wind Speed (KmpH)	5	4	4	4	4
Wind Direction (deg)	SW	S	SE	W	SW

Northerly- N, North-Easterly- E, South-Easterly- S, South-Westerly- S, South-Westerly- N, Westerly- N, Wester

Weather for preceding week					
Date	Rainfall	Max. Temp	Min. Temp		
	(mm)	(°C)	(°C)		
01/06/2019	000	29.0	08.2		
02/06/2019	004	26.2	08.1		
03/06/2019	000	30.0	08.2		

- > Probability of light rainfall
- Max temp may be varying from 27-30°C, whereas, Min temp may vary from 17-19°C
- > Sky will remain generally cloudy
- Max RH is likely to be 90-94 %, whereas, Min RH may vary from 67-77 %
- > Wind speed may likely vary from 4-5 km/hr.
- > Wind direction may blow from southwesterly to southerly, south easterly to westerly and finally south westerly
- > Weekly cumulative rainfall=38 mm

### **Value Added forecast for EAST-DISTRICT for next five days**

Parameter/Date	05/06/2019	06/06/2019	07/06/2019	08/06/2019	09/06/2019
Rainfall (mm)	Very light rainfall	Light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp ( <sup>0</sup> C)	25	25	24	23	23
Min Temp ( <sup>0</sup> C)	17	17	17	16	16
Sky condition	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	91	90	92	92	92
Min RH (%)	66	66	70	72	72
Wind Speed (KmpH)	3	4	2	4	3
Wind Direction (deg)	NE	NE	E	E	E

Northerly- N, North-Easterly- E, South-Easterly- S, South-Westerly- S, South-Westerly- N, Westerly- W, North-westerly- N-W.

Weather for preceding week					
Date Rainfall Max. Temp Min. Te					
	(mm)	(°C)	(°C)		
01/06/2019	000	23.9	15.7		
02/06/2019	007	19.2	15.8		
03/06/2019	800	22.6	15.5		

- > Probability of light rainfall
- Max temp may be varying from 23-25°C, whereas, Min temp may vary from 16-17°C
- > Sky will remain generally cloudy
- Max RH is likely to be 90-92 %, whereas, Min RH may vary from 66-72 %
- > Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow from northeasterly to Easterly
- > Weekly cumulative rainfall= 37 mm

#### **Value Added forecast for SOUTH-DISTRICT for next five days**

Parameter/Date	05/06/2019	06/06/2019	07/06/2019	08/06/2019	09/06/2019
Rainfall (mm)	Very light rainfall	Very light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp ( <sup>0</sup> C)	32	32	30	29	28
Min Temp ( <sup>0</sup> C)	20	20	19	18	16
Sky condition	Partially clear	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	90	91	91	92
Min RH (%)	60	62	64	68	70
Wind Speed (KmpH)	4	3	3	2	2
Wind Direction (deg)	N	N	NE	E	E

Northerly- N, North-Easterly- E, South-Easterly- S, South-Westerly- S, South-Westerly- N, Westerly- N, Wester

	Weather for preceding week					
Date	Date Rainfall Max. Temp Min. Temp					
	(mm)	(°C)	(°C)			
01/06/2019	000	29.5	15.5			
02/06/2019	000	N/A	15.5			
03/06/2019	N/A	N/A	N/A			

- There will be chances of light rainfall
- Max temp may be varying from 28-32°C, whereas, Min temp may vary from 16-20°C
- > Sky will remain generally cloudy
- Max RH is likely to be 90-92 %, whereas, Min RH may var from 60-70 %
- > Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow from Northerly to northeasterly and then easterly
- > Weekly cumulative rainfall= 15 mm

### **Value Added forecast for WEST-DISTRICT for next five days**

Parameter/Date	05/06/2019	06/06/2019	07/06/2019	08/06/2019	09/06/2019
Rainfall (mm)	Very light rainfall	Very light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp ( <sup>0</sup> C)	27	27	26	25	24
Min Temp ( <sup>0</sup> C)	18	18	17	16	15
Sky condition	Partially clear	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	90	91	92	92
Min RH (%)	65	67	70	74	76
Wind Speed (KmpH)	4	4	3	3	4
Wind Direction (deg)	N	N	S	N	NW

Northerly- N, North-Easterly- E, South-Easterly- S, South-Westerly- S, South-Westerly- N, Westerly- N, Wester

Weather for preceding week					
Date Rainfall Max. Temp Min. Temp					
	(mm)	(°C)	(°C)		
01/06/2019	N/A	25.9	15.0		
02/06/2019	N/A	23.3	15.3		
03/06/2019	N/A	24.9	14.0		

- > Probability of light rainfall
- Max temp may be varying from 24-27°C, whereas, Min temp may vary from 15-18°C
- > Sky will remain generally cloudy
- Max RH is likely to be 90-92 %, whereas, Min RH may var from 65-76 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from northerly to southerly and finally again northerly to northwesterly
- > Weekly cumulative rainfall= 25 mm

#### AGRO-METEREOLOGICAL ADVISORIES

#### **General Advisories for all the crops/ livestock**

- **▶** Bunding at terrace should be done to reduce nutrient losses due to heavy rainfall
- **▶** Keep ready the field for paddy cultivation
- **▶** Jalkund should be dug out for rain water harvesting.
- **➡** Spraying of plant protection bio pesticides on bright sunny day for insect and disease management is recommended.
- Maintain strict hygiene and sanitation measures in poultry farm.
- Strategic supplementation of vitamins and mineral mixture should provide to livestock to improve the productive performance.
- Prove green grass to the livestock to feed as much as possible

Name of the crop/Animal	Stage	Cultural pr Pest/ Dis		Agro-Met Advisories		
Agricultural and Horticultural crops:						
Maize	Knee heigh	t stage	Army worm	<ul> <li>Field should be weed free without damaging the main crop while uprooting the weeds.</li> <li>Earthing up should be done.</li> <li>Apply bio fertilizers @25 kg/ha and vermicompost @1.5 t/ha.</li> <li>Foliar spray of neem based formulation @ 0.5% or 5 ml/lit. of water at weekly interval</li> </ul>		
Rice	Field prepa	ration		Start initial ploughing		
Ginger/ Turmeric	Sowin	g		Apply bio mulch @10 t/ha to cover the ridges and furrows of the field		

Large cardamom	Planting			•	A 2 years old nursery suckers should be planted in the main field A spacing of 1.8×1.8 m <sup>2</sup> should be maintained. Young white coloured roots should not be destroy while planting, while old roots should trimmed out.
Early kharif vegetables	Vegetative growth			•	Weeding and intercultural operation should be done
Tomato/Red cherry pepper/Brinjal	Vegetative		Blight	•	Plants should be keep weed free and avoid water stagnation  Spraying of COC @2-3 ml/lit. at weekly interval
Sikkim Mandarin	Planting/fruiting			•	Keep the orchard weed free Digging the pit of 3 cubic feet for transplanting new saplings Top soil of the pit should be mixed with FYM @20 kg/pit
	Animal Sciences	and I	ivestock	ma	nnagement
Tibetan Sheep				•	Feeding of concentrate feed along with mineral mixture and salt.  Hay feeding is recommended.
Yak				•	Feeding of concentrate feed along with mineral mixture and salt.  Hay feeding is recommended.  Trimming of hair is recommended.
Sheep and Goat				٥	Farmers are advised to look for heat sign especially during early morning or late evening and ensure breeding of the dairy cattle 12 hr after observation of heat.
				•	Breeding of the sheep/goat should be done 24-30 hr after observation of heat.  Feeding of concentrate feed along
				•	with jaggery, mineral mixture and salt.  Periodic application of fly repellents
					and/or netting of dung pit are recommended.
Cattle				•	Balanced feeding of dairy animals and allow calf suckling immediately after parturition. Colostrum (first

			three days milk) feeding to new born calf for first three days of life should be ensured.  Full hand milking should be practiced.  Frequent incomplete milking at interval of 4hrs should be practiced after parturition for minimum 1 week.  Afterwards complete milking in a day is recommended.
Poultry		Coccidiosis, Ranikhet disease	<ul> <li>16 hrs of light (natural and electrical) should be provided to adult birds for optimum egg production.</li> <li>Frequent raking and liming of deep litter materials.</li> <li>Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis.</li> <li>Maintenance of brooder temperature for chicks with the help of electrical bulbs for initial one month.</li> <li>Ranikhet vaccination at 5-7 days and at 28-30 days of age.</li> <li>Calcium/shell grit and multi vitamin supplementation is strongly recommended to optimize egg production.</li> <li>Spraying of ectoparasiticides viz., deltamethrin/cypermethrin @ 1% v/v</li> </ul>
Pig	All stages	Swine fever	in water.  Neep floor dry to avoid skin diseases.  Weaning is recommended at the age of 8 weeks for crossbreds and 10 weeks for indigenous pigs.  Swine fever vaccine at the age of 3 months is recommended.  Critical heat detection in early morning and late evening is recommended.  Feed 5-10% green fodder of their diet.

#### Agro-Met Advisory member of ICAR-NOFRI and KVK- East Sikkim Name Designation **Department** Dr. R. K. Avasthe **Joint Director Soil Science** Dr. Raghavendra Singh Agronomy Senior scientist and Head (I/C) Dr. P. K. Pathak SMS Animal science Dr. J.K. Singh Plant Breeding SMS Agronomy Dr. Manoj Kumar SMS Sh. Boniface Lepcha SMS Horticulture Agril. Meteorology Sh. Santanu Das SMS Metrological observer Miss Tirtha Kumari Chettri Biochemistry