

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



PERIOD: 22<sup>nd</sup> MAY to 26<sup>th</sup> MAY'2019

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





#### ISSUED ON TUESDAY 21st MAY'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

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

Parameter/Date	22/05/2019	23/05/2019	24/05/2019	25/05/2019	26/05/2019
Rainfall (mm)	Light rainfall	Moderate rainfall	moderate rainfall	Light rainfall	Light rainfall
Max Temp ( <sup>0</sup> C)	26	26	25	25	26
Min Temp ( <sup>0</sup> C)	16	16	15	15	16
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Partially clear
Max RH (%)	92	92	93	88	88
Min RH (%)	75	75	78	71	71
Wind Speed (KmpH)	3	4	4	3	3
Wind Direction (deg)	SW	SW	SW	W	SW

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

Weather for preceding week					
Date	Rainfall	Max. Temp	Min. Temp		
	(mm)	(°C)	(°C)		
18/05/2019	004	27.0	09.0		
19/05/2019	031	25.0	09.1		
20/06/2019	000	29.1	09.0		

- > Probability of light rainfall and may goes up to moderate rainfall
- Max temp may be varying from 25-26°C, whereas, Min temp may vary from 15-16°C
- > Sky will remain generally cloudy
- > Max RH is likely to be 88-93 %, whereas, Min RH may vary from 71-78 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from southwesterly to westerly and again southwesterly
- > Weekly cumulative rainfall=70 mm
- Thunderstorm with lightning and gusty winds may prevail on Thursday and Friday

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

Parameter/Date	22/05/2019	23/05/2019	24/05/2019	25/05/2019	26/05/2019
Rainfall (mm)	Light rainfall	Moderate rainfall	Moderate rainfall	Moderate rainfall	Light rainfall
Max Temp ( <sup>0</sup> C)	22	21	21	22	23
Min Temp ( <sup>0</sup> C)	15	15	14	16	16
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Partially clear	Partially clear
Max RH (%)	91	91	92	88	87
Min RH (%)	74	74	77	70	70
Wind Speed (KmpH)	3	4	4	3	4
Wind Direction (deg)	NE	NE`	NE	E	NE

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)			
18/05/2019	031	21.8	15.6			
19/05/2019	001	23.4	15.5			
20/06/2019	016	22.3	15.0			

- > Probability of moderate rainfall
- Max temp may be varying from 21-23°C, whereas, Min temp may vary from 14-16°C
- > Sky will remain generally cloudy
- Max RH is likely to be 87-92 %, whereas, Min RH may vary from 74-77 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from northeasterly to easterly and finally northeasterly
- > Weekly cumulative rainfall= 75 mm
- > Thunderstorm with lightning and gusty winds may prevail on Friday

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

Parameter/Date	22/05/2019	23/05/2019	24/05/2019	25/05/2019	26/05/2019
Rainfall (mm)	Very light rainfall	Light rainfall	Moderate rainfall	Light rain fall	Very light rainfall
Max Temp ( <sup>0</sup> C)	27	26	26	27	27
Min Temp ( <sup>0</sup> C)	16	16	15	15	16
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Partially clear
Max RH (%)	90	92	92	91	86
Min RH (%)	73	73	74	73	70
Wind Speed (KmpH)	4	5	3	2	4
Wind Direction (deg)	NE	NE	NE	S	NE

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. Temp					
	(mm)	(°C)	(°C)		
18/05/2019	001	27.0	15.0		
19/05/2019	000	28.5	13.0		
20/06/2019	005	27.5	14.5		

- There will be chances of light rainfall
- Max temp may be varying from 26-27°C, whereas, Min temp may vary from 15-16°C
- > Sky will remain generally cloudy
- Max RH is likely to be 86-92 %, whereas, Min RH may var from 70-74 %
- > Wind speed may likely vary from 2-5 km/hr.
- > Wind direction may blow from north easterly to southerly and then again north easterly
- > Weekly cumulative rainfall= 52 mm
- Thunderstorm with lightning and gusty winds may prevail on Thursday and Friday

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

Parameter/Date	22/05/2019	23/05/2019	24/05/2019	25/05/2019	26/05/2019
Rainfall (mm)	Light rainfall	Moderate rainfall	Moderate rainfall	Moderate rainfall	Light rainfall
Max Temp ( <sup>0</sup> C)	25	24	24	25	25
Min Temp ( <sup>0</sup> C)	15	15	14	15	16
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Partially clear	Partially clear
Max RH (%)	91	91	92	87	87
Min RH (%)	75	75	77	71	71
Wind Speed (KmpH)	4	3	3	3	4
Wind Direction (deg)	NW	NW	NW	NW	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)			
18/05/2019	N/A	24.3	16.6			
19/05/2019	N/A	25.2	15.7			
20/06/2019	N/A	25.0	14.6			

- > Probability of moderate rainfall
- Max temp may be varying from 24-25°C, whereas, Min temp may vary from 14-16°C
- > Sky will remain generally cloudy
- Max RH is likely to be 87-92 %, whereas, Min RH may var from 71-77 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from northwesterly
- > Weekly cumulative rainfall= 75 mm
- > Thunderstorm with lightning and gusty winds may prevail on Thursday

### 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	Stage Cultural practices/			Agro-Met Advisories		
crop/Animal	Pest/ Diseases					
Agricultural and Horticultural crops:						
Maize	Knee heigh	at stage	Army	<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	aration		Start initial ploughing		
Ginger/ Turmeric Large cardamom	Sowing  Planting			<ul> <li>Apply bio mulch @10 t/ha to cover the ridges and furrows of the field</li> <li>A 2 years old nursery suckers should be planted in the main field</li> <li>A spacing of 1.8×1.8 m² should be maintained.</li> <li>Young white coloured roots should not be destroy while planting, while old roots should trimmed out.</li> </ul>		

Early kharif vegetables	Vegetative growth		Weeding and intercultural operation should be done
Tomato/Red cherry pepper/Brinjal	Vegetative	Blight	<ul> <li>Plants should be keep weed free and avoid water stagnation</li> <li>Spraying of COC @2-3 ml/lit. at weekly interval</li> </ul>
Sikkim Mandarin	Planting/fruiting		<ul> <li>Keep the orchard weed free</li> <li>Digging the pit of 3 cubic feet for transplanting new saplings</li> <li>Top soil of the pit should be mixed with FYM @20 kg/pit</li> </ul>
	Animal Sciences	and livestock	management
Tibetan Sheep			<ul> <li>Feeding of concentrate feed along with mineral mixture and salt.</li> <li>Hay feeding is recommended.</li> </ul>
Yak			<ul> <li>Feeding of concentrate feed along with mineral mixture and salt.</li> <li>Hay feeding is recommended.</li> </ul>
Sheep and Goat  Cattle			<ul> <li>Trimming of hair is recommended.</li> <li>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.</li> <li>Breeding of the sheep/goat should be done 24-30 hr after observation of heat.</li> <li>Feeding of concentrate feed along with jaggery, mineral mixture and salt.</li> <li>Periodic application of fly repellents and/or netting of dung pit are recommended.</li> <li>Balanced feeding of dairy animals</li> </ul>
			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 in water.</li> </ul>
Pig	All stages	Swine fever	<ul> <li>Keep floor dry to avoid skin diseases.</li> <li>Weaning is recommended at the age of 8 weeks for crossbreds and 10 weeks for indigenous pigs.</li> <li>Swine fever vaccine at the age of 3 months is recommended.</li> <li>Critical heat detection in early morning and late evening is recommended.</li> <li>Feed 5-10% green fodder of their diet.</li> </ul>

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