

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM BERLOD, 2004 HINES, 2010





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





ISSUED ON TUESDAY 21st 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	22/06/2019	23/06/2019	24/06/2019	25/06/2019	26/06/2019
Rainfall (mm)	Light rainfall	Light rainfall	Moderate rainfall	Very heavy rainfall	Very heavy rainfall
Max Temp (⁰ C)	32	31	29	25	22
Min Temp (⁰ C)	21	20	19	18	18
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Mainly cloudy
Max RH (%)	90	90	91	93	95
Min RH (%)	75	74	79	84	88
Wind Speed (KmpH)	4	4	3	4	4
Wind Direction (deg)	SE	SE	W	SW	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. Temp					
	(mm)	(°C)	(°C)		
18/6/2019	065	22.0	09.0		
19/6/2019	000	30.0	09.1		
20/6/2019	000	29.0	09.2		

- > Probability of moderate to very heavy rainfall
- Max temp may be varying from 22-32°C, whereas, Min temp may vary from 18-21°C
- > Sky will remain generally cloudy
- Max RH is likely to be 90-95 %, whereas, Min RH may vary from 75-88 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from southeasterly to westerly then southwesterly to easterly
- > Weekly cumulative rainfall=170 mm
- > Heavy to very heavy rain very likely to occur at one or two places on Sunday, Monday and Tuesday

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	22/06/2019	23/06/2019	24/06/2019	25/06/2019	26/06/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Moderate rainfall	Moderate rainfall
Max Temp (⁰ C)	26	25	23	21	21
Min Temp (⁰ C)	19	18	18	17	17
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Mainly cloudy
Max RH (%)	91	91	92	93	95
Min RH (%)	76	75	80	85	89
Wind Speed (KmpH)	3	2	3	3	3
Wind Direction (deg)	NE	NE	SE	SE	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)		
18/6/2019	800	23.0	16.2		
19/6/2019	000	24.1	17.4		
20/6/2019	000	23.8	18.6		

- > Probability of moderate rainfall
- Max temp may be varying from 23-26°C, whereas, Min temp may vary from 17-19°C
- > Sky will remain generally cloudy
- Max RH is likely to be 91-95 %, whereas, Min RH may vary from 75-89 %
- > Wind speed may likely vary from 2-3km/hr.
- > Wind direction may blow from northeasterly to south easterly and finally again northeasterly
- > Weekly cumulative rainfall= 83 mm
- > Heavy Rain very likely to occur at one or two places on Monday and Tuesday.

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	22/06/2019	23/06/2019	24/06/2019	25/06/2019	26/06/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Light rainfall	Moderate rainfall
Max Temp (⁰ C)	32	31	29	27	26
Min Temp (⁰ C)	18	17	17	16	16
Sky condition	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	90	91	92	92
Min RH (%)	70	70	74	78	80
Wind Speed (KmpH)	3	4	2	2	4
Wind Direction (deg)	NE	NE	SW	E	N

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)				
18/6/2019	011	29.0	16.0				
19/6/2019	002	30.5	13.5				
20/6/2019	001	N/A	15.0				

- There will be chances of light rainfall to moderate rainfall
- Max temp may be varying from 26-32°C, whereas, Min temp may vary from 16-18°C
- > Sky will remain generally cloudy
- Max RH is likely to be 90-92 %, whereas, Min RH may var from 70-80 %
- > Wind speed may likely vary from 3-5 km/hr.
- > Wind direction may blow from north easterly to south westerly and then easterly to northerly
- > Weekly cumulative rainfall= 46 mm
- > Heavy Rain very likely to occur at one or two places on Tuesday.

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	22/06/2019	23/06/2019	24/06/2019	25/06/2019	26/06/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Light rainfall	Moderate rainfall
Max Temp (⁰ C)	28	27	25	22	21
Min Temp (⁰ C)	19	18	18	17	17
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	91	91	92	93	93
Min RH (%)	76	75	80	84	86
Wind Speed (KmpH)	3	4	3	3	4
Wind Direction (deg)	S	N	N	N	N

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

	Weather for preceding week					
Date Rainfall Max. Temp Min. Temp						
	(mm)	(°C)	(°C)			
18/6/2019	003	24.1	17.5			
19/6/2019	000	25.6	17.2			
20/6/2019	003	26.1	17.9			

- > Probability of light to moderate rainfall
- Max temp may be varying from 21-28°C, whereas, Min temp may vary from 17-19°C
- > Sky will remain generally cloudy
- Max RH is likely to be 91-93%, whereas, Min RH may var from 75-86 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from southerly to northerly
- > Weekly cumulative rainfall= 42mm

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 the field ready for paddy transplanting
- **▶** Jalkund should be dug out for rain water harvesting.
- **▶** Spraying of bio pesticides (neem based formulation 1500 ppm @5ml/lit. and copper oxy chloride 50%WP @ 2.5g/lit.) at weekly interval for insect pest and diseases.
- Regular supplementation of vitamins and mineral mixture to the livestock to improve the productive and reproductive performance of animals.
- → Mulching animals should be feed 70-80 ml Calcium daily for better milk yield
 and good health

Name of the	Stage	Cultural p		Agro-Met Advisories
crop/Animal		Pest/ Diseases		
	Agricu	ıltural and H	<i>lorticultu</i>	iral crops:
Maize	Knee height stage		Army	 ♦ Field should be weed free without damaging the main crop while uprooting the weeds. ♦ Earthing up should be done. ♦ Apply bio fertilizers @25 kg/ha and vermicompost @1.5 t/ha. ♦ Two foliar spray of neem based formulation (1500ppm) @ 0.5% or 5 ml/lit. of water at weekly interval ♦ Avoid weeding during tasseling stage ♦ Keep drainage facilities in field
Rice	Nursery preparation			 1000 sq. m nursery area for planting one hectare of land is sufficient Well decomposed FYM should be applied 2-3 days before sowing @10 q/1000 sq. m In addition Azospirillum may be applied @2kg/1000 sq. m area. Seed rate @ 2.5-3.0 kg for 100 sq. m

Ginger/ Turmeric Large cardamom	Mulching Planting			•	of area is sufficient for one hectare transplanting area Seed bed should be covered with thin layer of soil or compost immediate after sowing. Apply bio mulch @10 t/ha to cover the ridges and furrows of the field A 2 years old nursery suckers should be planted in the main field A spacing of 1.8×1.8 m² should be maintained. Young white coloured roots should not be destroy while planting, while
Early kharif	Vegetative growth			•	old roots should trimmed out. Weeding and intercultural operation
vegetables	vegetative growth				should be done
Tomato/Red cherry	Vegetative		Blight	•	Plants should be keep weed free and avoid water stagnation
pepper/Brinjal				₩	Spraying of COC @ 2-3 ml/lit. at weekly interval Five spray of neem based formulation
				•	1500 ppm @ 5 ml/1 lit. of weekly interval for controlling of <i>Aphids</i>
Sikkim Mandarin	Planting/fruiting			<!--</th--><th>Keep the orchard weed free Digging the pit of 3 cubic feet for</th>	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	s and I	ivestock	ma	
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.
				4	Hay feeding is recommended. Trimming of hair is recommended during summer season
Sheep and Goat				•	Farmers are advised to look for heat sign especially during early morning or late evening and ensure breeding of the dairy cattle within 12-18 hours after onset of heat symptoms
				•	Breeding of the sheep/goat should be

			•	done 24-30 hr. after onset of heat. Feeding of concentrate feed along with jaggery, mineral mixture and salt
			•	is recommended. Periodic application of fly repellents
				and/or netting of dung pit is
Cattle			a	recommended.
Cattle			~	Balanced feeding of dairy animals and allow calf suckling immediately
				after parturition is recommended.
				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.
				Later on, complete milking in subsequent day is recommended.
Poultry		Coccidiosis,	•	16 hrs of light (natural and electrical)
		Ranikhet		should be provided to adult birds for
	BALLARY	disease	_	optimum egg production.
			*	Frequent raking and liming of deep litter materials is recommended.
			•	Inclusion of turmeric powder @
				10g/kg in poultry feed for prevention
				of coccidiosis.
			•	Maintenance of brooder temperature
				for chicks with the help of electrical bulbs for initial one month.
			•	Ranikhet vaccination at 5-7 days and
				at 28-30 days of age is highly
				recommended.
			4	Calcium/shell grit and multi vitamin supplementation is strongly
				recommended to optimize egg
				production.
			•	Occasional spraying of
				ectoparasiticides viz.,
				deltamethrin/cypermethrin @ 1% v/v in water is recommended.
Pig	All stages	Swine fever	•	Keep 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.
	•	Farmers can incorporate low cost
		locally available feed resources
		(60%0 for feeding Pigs to reduce the
		cost of feed.

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	Senior scientist and Head (I/C)	Agronomy
Dr. P. K. Pathak	SMS	Animal science
Dr. J.K. Singh	SMS	Plant Breeding
Dr. Manoj Kumar	SMS	Agronomy
Sh. Boniface Lepcha	SMS	Horticulture
Sh. Santanu Das	SMS	Agril. Meteorology
Miss Tirtha Kumari Chettri	Met. Observer	Biochemistry