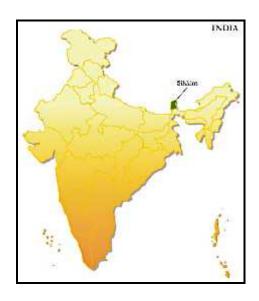


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 27TH MARCH TO 31st MARCH'2019

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





ISSUED ON TUESDAY 26TH MARCH'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	27/03/2019	28/03/2019	29/03/2019	30/03/2019	31/03/2019
Rainfall (mm)	Light rain	Vary light rain	No rain	Light rain	Very light rain
Max Temp (⁰ C)	16	18	22	21	20
Min Temp (⁰ C)	12	11	12	13	12
Sky condition	Generally cloudy	Partially clear	Partially clear	Generally cloudy	Generally cloudy
Max RH (%)	90	86	80	85	89
Min RH (%)	80	69	62	75	75
Wind Speed (KmpH)	5	7	4	5	3
Wind Direction (deg)	S	SW	SW	SW	SW

Northerly- N, North-Easterly- E, South-Easterly- S-E, 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)		
23/3/2019	011	20.5	08.2		
24/3/2019	000	26.0	08.0		
25/3/2019	002	N/A	09.0		

- > Probability of very light rainfall
- Max temp may be vary from 16-22°C, whereas, Min temp may vary from 11-13°C
- > Sky will remain generally cloudy
- > Max RH is likely to be 80-90%, whereas, Min RH may var from 62-80%
- > Wind speed may likely vary from 4-7 km/hr.
- > Wind direction may blow from southerly to south easterly
- > Weekly cumulative rainfall= 29 mm

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	27/03/2019	28/03/2019	29/03/2019	30/03/2019	31/03/2019
Rainfall (mm)	Light rain	No rain	No rain	Very light rain	Light rain
Max Temp (⁰ C)	14	15	18	17	16
Min Temp (⁰ C)	10	9	11	12	11
Sky condition	Generally cloudy	Partially clear	Partially clear	Partially clear	Generally cloudy
Max RH (%)	91	87	82	86	90
Min RH (%)	85	75	70	72	76
Wind Speed (KmpH)	3	4	3	2	3
Wind Direction (deg)	NE	NE	NE	NE	NE

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, 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)		
23/3/2019	003	18.5	10.2		
24/3/2019	000	18.2	11.8		
25/3/2019	000	N/A	12.5		

- > Probability of light rainfall
- > Max temp may be vary from 14-18°C, whereas, Min temp may vary from 9-12°C
- > Sky will remain partially clear
- Max RH is likely to be 82-91%, whereas, Min RH may var from 70-85%
- > Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow from North easterly
- > Weekly cumulative rainfall= 20 mm

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	27/03/2019	28/03/2019	29/03/2019	30/03/2019	31/03/2019
Rainfall (mm)	Light rain	No rain	No rain	No rain	Light rain
Max Temp (⁰ C)	18	20	22	21	20
Min Temp (⁰ C)	11	11	13	13	12
Sky condition	Generally cloudy	Partially clear	Partially clear	Partially clear	Generally cloudy
Max RH (%)	90	80	75	82	89
Min RH (%)	75	60	55	62	72
Wind Speed (KmpH)	2	3	2	2	2
Wind Direction (deg)	N	NE	NE	NE	NE

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, 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)		
23/3/2019	N/A	N/A	N/A		
24/3/2019	N/A	N/A	N/A		
25/3/2019	N/A	N/A	N/A		

- > Probability of light rain
- Max temp may be vary from 18-22°C, whereas, Min temp may vary from 11-13°C
- > Sky will remain partially clear
- Max RH is likely to be 75-90 %, whereas, Min RH may var from 55-75%
- > Wind speed may likely vary from 2-3 km/hr.
- > Wind direction may blow from North to Northerly easterly
- > Weekly cumulative rainfall= 9 mm

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	27/03/2019	28/03/2019	29/03/2019	30/03/2019	31/03/2019
Rainfall (mm)	Light rain	No rain	No rain	Very light rain	Light rain
Max Temp (⁰ C)	16	18	20	19	18
Min Temp (⁰ C)	11	10	11	12	11
Sky condition	Generally cloudy	Partially clear	Partially clear	Generally cloudy	Generally cloudy
Max RH (%)	90	80	78	86	90
Min RH (%)	85	62	60	70	75
Wind Speed (KmpH)	3	4	3	2	2
Wind Direction (deg)	N	NW	NW	NW	NW

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

_	Weather for preceding week				
Date Rainfall Max. Temp Min. Temp					
23/3/2019	000	20.2	11.1		
24/3/2019	000	20.2	11.6		
25/3/2019	000	N/A	12.8		

- > Probability of light rain
- Max temp may be vary from 16-20°C, whereas, Min temp may vary from 10-12°C
- > Sky will remain Generally cloudy
- Max RH is likely to be 80-90%, whereas, Min RH may var from 60-85%
- > Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow from Northerly North westerly
- > Weekly cumulative rainfall= 12 mm

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- Harvest the matured crops to avoid damage from hailstorm
- Apply dolomite/agricultural lime at least 10 days prior to sowing the Kharif crops
- 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.
- **▶** Livestock should provide a strategic supplementation of vitamins and mineral mixture to improve the productive performance.
- Use preserved fodder like hay and silage to feed your livestock.

Name of the crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
	Agricu	Iltural and Horticultu	ıral crops:
Maize	Land preparation and sowing		 Maize sowing should be done at 5-6 cm depth with a spacing of 60 cm × 20 cm (row × plant) Provide adequate drainage facilities Apply dolomite @ 0.5 t/ha in furrows Apply well decomposed FYM @ 2.5 t/ha + mixed compost 2.5 t/ha + 0.5 t/ha neem cake and mix properly with soil 7-10 days before sowing
Buckwheat	Harvesting		Should done at physiological maturity
Mustard/Toria	Harvesting		Should done at physiological maturity
Ginger	Field preparation		 Identify healthy plants for seed rhizomes. Selected rhizomes for planting material should be kept in partial shade for better sprouting. Store the seed rhizome in the pit for a month to break the dormancy Forest litter should be collected well in advance as mulching material. Apply well decomposed FYM @ 20-25 t/ha + 1.0 t/ha neem cake and mix properly with soil 7-10 days before

				sowing.
			•	Broadcast dolomite @ 2 t/ha before
				sowing and mix properly with soil.
Large	Post-harvest crop		•	Regular monitoring for pest and
cardamom	management			disease incidence.
			•	Shade management with the proper
				lopping of trees.
Early kharif	Land preparation		•	Seed sowing of okra, beans etc. can
vegetables	and Sowing			be done
Pea	Pod maturity,		•	Soil moisture should be maintained
	harvesting			for good yield.
	\mathcal{S}		•	Harvest the fully developed pod in
				early morning.
				For green pods of pea, pick/harvest at
				4-5 days interval so as to stimulate
				generation of new flowers.
			•	Cautious picking should be done to
				avoid plant damage
Tomato/Red	Transplanting	Fruit borer/ white fly/	•	Nursery should prepare at 15 cm of
cherry		late blight		height with 1 m width and length as
pepper/Brinjal				per farmers convenience.
			•	25-28 days old seedlings should be
				planted at 60 cm × 45 cm
			9	Bed should be prepared to a fine tilth
				by mixing well decomposed FYM @
				5 kg/m2 and vermicompost @ 150 g/m ² incubated with 1% <i>Trichoderma</i>
				viride for management of soil borne
				diseases.
				Use biodegradable polyfilm for
				mulching
Sikkim	Vegetative flush		•	Basin maintenance and manuring
Mandarin	_			with FYM @ 30-35 kg/tree should be
				done. Avoid application of FYM
				close to the trunk.
			•	Tree trunk should be painted with
				Bordeaux mixture @ 1%.
	Animal Sc.	iences and livestock	má	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		•	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
Cattle		•	recommended. 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, Ranikh disease	•	16 hrs of light (natural and electrical) should be provided to adult birds for optimum egg production. Frequent raking and liming of deep litter materials. Inclusion of turmeric powder @ 10g/kg 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. Calcium/shell grit and multi vitamin supplementation is strongly recommended to optimize egg production. Spraying of ectoparasiticides <i>viz.</i> , deltamethrin/cypermethrin @ 1% v/v

				in water.
Pig	All stages	Swine fever	0	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.
				Feed 5-10% green fodder of their
				diet.

d(I/C) Agronomy Animal science
, ,
Animal science
Plant Breeding
Agronomy
Horticulture