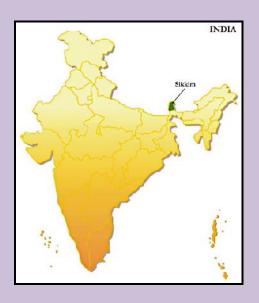


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 17th APRIL TO 21st APRIL'2019

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





ISSUED ON TUESDAY 16th APRIL'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	17/04/2019	18/04/2019	19/04/2019	20/04/2019	21/04/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Very light rainfall	No rain
Max Temp (⁰ C)	27	26	27	27	28
Min Temp (⁰ C)	16	15	15	16	16
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Partially clear
Max RH (%)	90	93	93	90	85
Min RH (%)	75	78	78	72	65
Wind Speed (KmpH)	4	4	3	2	3
Wind Direction (deg)	SE	SE	SE	S	S

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)		
13/4/2019	014	27.0	08.2		
14/4/2019	007	28.0	09.2		
15/4/2019	000	28.1	08.2		

Weather forecast valid up to 21st April 2019

- > Probability of light rainfall
- Max temp may be vary from 26-28°C, whereas, Min temp may vary from 15-16°C
- > Sky will remain generally cloudy
- Max RH is likely to be 85-93%, whereas, Min RH may var from 65-78%
- > Wind speed may likely vary from 3- 4km/hr.
- > Wind direction may blow from southeasterly to southerly
- > Weekly cumulative rainfall= 22 mm

THUNDERSTORM WITH LIGHTNING & GUSTY WINDS may prevail on 18th and 19th April 2019

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	17/04/2019	18/04/2019	19/04/2019	20/04/2019	21/04/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Very light rainfall	Very light rainfall
Max Temp (⁰ C)	20	19	20	20	21
Min Temp (⁰ C)	14	13	13	14	14
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Partially clear
Max RH (%)	93	93	92	88	88
Min RH (%)	82	80	82	74	65
Wind Speed (KmpH)	2	3	4	3	3
Wind Direction (deg)	NE	NE	NE	N	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)		
13/4/2019	003	21.1	14.7		
14/4/2019	001	20.6	14.2		
15/4/2019	007	18.8	13.0		

Weather forecast valid up to 21st April march 2019

- > Probability of very light to light rainfall
- > Max temp may be vary from 19-21°C, whereas, Min temp may vary from 13-14°C
- > Sky will remain generally cloudy
- Max RH is likely to be 88-93%, whereas, Min RH may var from 65-82%
- > Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow from North easterly to northerly
- > Weekly cumulative rainfall= 19 mm

THUNDERSTORM WITH LIGHTNING & GUSTY WINDS may prevail on 17th and 18th April 2019

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	17/04/2019	18/04/2019	19/04/2019	20/04/2019	21/04/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	No rain	No rain
Max Temp (⁰ C)	26	25	26	27	27
Min Temp (⁰ C)	15	14	14	15	15
Sky condition	Generally cloudy	Partially clear	Generally cloudy	Partially clear	Partially clear
Max RH (%)	90	88	92	82	80
Min RH (%)	70	65	70	62	60
Wind Speed (KmpH)	5	3	4	3	2
Wind Direction (deg)	NE	NE	N	N	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)			
13/4/2019	012	26.5	13.5			
14/4/2019	002	23.5	14.0			
15/4/2019	001	N/A	12.5			

Weather forecast valid up to 21st April 2019

- > Probability of light rainfall
- > Max temp may be vary from 25-27°C, whereas, Min temp may vary from 14-15°C
- > Sky will remain generally cloudy
- Max RH is likely to be 80-92 %, whereas, Min RH may var from 60-70%
- > Wind speed may likely vary from 2-5 km/hr.
- > Wind direction may blow from north easterly via Northerly
- > Weekly cumulative rainfall= 21 mm

THUNDERSTORM WITH LIGHTNING & GUSTY WINDS may prevail on 17th and 19th April 2019

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	17/04/2019	18/04/2019	19/04/2019	20/04/2019	21/04/2019
Rainfall (mm)	Light rainfall	Light rainfall	Very light rainfall	Very light rainfall	Very light rainfall
Max Temp (⁰ C)	22	21	22	23	24
Min Temp (⁰ C)	14	13	13	14	14
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Partially clear
Max RH (%)	92	92	90	90	90
Min RH (%)	76	78	74	70	65
Wind Speed (KmpH)	4	5	3	3	2
Wind Direction (deg)	NW	NW	NW	NW	NW

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)		
12/4/2019	000	24.8	14.3		
13/4/2019	000	23.2	13.6		
14/4/2019	000	21.7	13.5		

Weather forecast valid up to 21st April 2019

- > Probability of light rainfall
- > Max temp may be vary from 21-24°C, whereas, Min temp may vary from 12-15°C
- > Sky will remain generally cloudy
- > Max RH is likely to be 80-91%, whereas, Min RH may var from 45-73%
- > Wind speed may likely vary from 2-5 km/hr.
- > Wind direction may blow from Northerly
- > Weekly cumulative rainfall= 12 mm

THUNDERSTORM WITH LIGHTNING & GUSTY WINDS may prevail on 17th and 18th April 2019

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	Stage	Cultural practices/	Agro-Met Advisories
crop/Animal		Pest/ Diseases	,
	Agricu	ultural and Horticultu	irai crops:
Maize	Land preparation		♦ Maize sowing should be done at 5-6
	and sowing		cm depth with a spacing of $60 \text{ cm} \times$
			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.	
	olomite @ 2 t/ha before
	mix properly with soil.
	onitoring for pest and
cardamom management disease incid	
	gement with the proper
lopping of tr	
	g of okra, beans etc. can
vegetables and Sowing be done	5 of okra, beams etc. ean
und bowing be done	
Pea Pod maturity, Soil moistur	re should be maintained
harvesting for good yiel	ld.
♦ Harvest the	fully developed pod in
early mornin	ıg.
♦ For green po	ods of pea, pick/harvest at
4-5 days int	terval so as to stimulate
generation o	f new flowers.
◆ Cautious pic	cking should be done to
avoid plant of	lamage
Tomato/Red Transplanting Fruit borer/ white fly/ ♦ Nursery sho	uld prepare at 15 cm of
cherry late blight height with	1 m width and length as
pepper/Brinjal per farmers of	convenience.
◆ 25-28 days	old seedlings should be
planted at 60) cm × 45 cm
♦ Bed should	be prepared to a fine tilth
by mixing w	vell decomposed FYM @
	d vermicompost @ 150
g/m ² incubat	ted with 1% Trichoderma
viride for m	anagement of soil borne
diseases.	
◆ Use biode	gradable polyfilm for
mulching	
	ntenance and manuring
	② 30-35 kg/tree should be
	d application of FYM
close to the t	
	should be painted with
Bordeaux mi	ixture @ 1%.
Animal Sciences and livestock management	
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.
	is recommended.
◆ Trimming of	hair is recommended.

Sheep and Goat	•	<!--</th--><th>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.</th>	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	isease	\$\$\$\$	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		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.

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 Animal science SMS Dr. J.K. Singh Plant Breeding SMS Dr. Manoj Kumar SMS Agronomy SMS Horticulture Sh. Boniface Lepcha SMS Agril. Meteorology Sh. Santanu Das Miss Tirtha Kumari Chettri Metrological observer Biochemistry