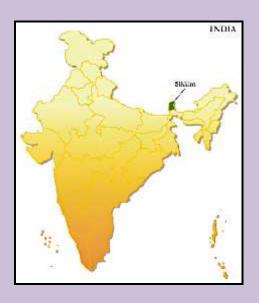


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 10th APRIL TO 14th APRIL'2019

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





ISSUED ON TUESDAY 9th 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	10/04/2019	11/04/2019	12/04/2019	13/04/2019	14/04/2019
Rainfall (mm)	Light rain	Light rain	No rain	Very light rain	Light rain
Max Temp (⁰ C)	23	24	25	24	23
Min Temp (⁰ C)	12	12	13	13	12
Sky condition	Generally cloudy	Generally cloudy	Partially clear	Generally cloudy	Generally cloudy
Max RH (%)	91	90	85	89	92
Min RH (%)	69	60	58	69	76
Wind Speed (KmpH)	6	3	3	4	5
Wind Direction (deg)	SW	SW	SW	SW	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)		
6/4/2019	003	18.0	09.0		
7/4/2019	009	22.0	08.2		
8/4/2019	005	22.0	08.0		

Weather forecast valid up to 14th April 2019

- > Probability of light rainfall
- > Max temp may be vary from 23-25°C, whereas, Min temp may vary from 12-13°C
- > Sky will remain generally cloudy
- Max RH is likely to be 85-91%, whereas, Min RH may var from 58-76%
- > Wind speed may likely vary from 3-5 km/hr.
- > Wind direction may blow from south westerly
- > Weekly cumulative rainfall= 23 mm

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	10/04/2019	11/04/2019	12/04/2019	13/04/2019	14/04/2019
Rainfall (mm)	Light rainfall	No rain	Very light rainfall	Very light rainfall	Light rainfall
Max Temp (⁰ C)	18	19	20	19	18
Min Temp (⁰ C)	11	11	12	12	11
Sky condition	Generally cloudy	Partially clear	Partially clear	Generally cloudy	Generally cloudy
Max RH (%)	90	85	88	91	92
Min RH (%)	70	65	65	70	78
Wind Speed (KmpH)	4	3	3	2	5
Wind Direction (deg)	NE	NE	NE	NE	NE

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)		
6/4/2019	019	14.2	12.3		
7/4/2019	009	17.2	11.7		
8/4/2019	008	19.3	10.5		

Weather forecast valid up to 14th April march 2019

- > Probability of very light to light rainfall
- Max temp may be vary from 18-20°C, whereas, Min temp may vary from 11-12°C
- > Sky will remain generally cloudy
- Max RH is likely to be 85-92%, whereas, Min RH may var from 65-78%
- > Wind speed may likely vary from 2-5 km/hr.
- > Wind direction may blow from North easterly
- > Weekly cumulative rainfall= 16 mm

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	10/04/2019	11/04/2019	12/04/2019	13/04/2019	14/04/2019
Rainfall (mm)	Light rainfall	Very light rain	No rain	Light rainfall	Light rainfall
Max Temp (⁰ C)	23	24	25	24	23
Min Temp (⁰ C)	13	13	14	14	13
Sky condition	Generally cloudy	Mainly clear	Partially clear	Mainly clear	Generally cloudy
Max RH (%)	90	89	84	90	91
Min RH (%)	59	55	50	58	65
Wind Speed (KmpH)	6	3	2	3	4
Wind Direction (deg)	N	N	N	N	NE

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					
$ (\mathbf{mm}) \qquad \qquad (^{0}\mathbf{C}) \qquad \qquad (^{0}\mathbf{C}) $					
6/4/2019	018	22.0	10.5		
7/4/2019	008	21.0	10.5		
8/4/2019	000	24.0	09.5		

Weather forecast valid up to 14th April 2019

- > Probability of light rainfall
- Max temp may be vary from 23-25°C, whereas, Min temp may vary from 13-14°C
- > Sky will remain mainly clear and may goes up to cloudy
- Max RH is likely to be 84-91 %, whereas, Min RH may var from 50-65%
- > Wind speed may likely vary from 3-6 km/hr.
- > Wind direction may blow from North to north easterly
- > Weekly cumulative rainfall= 16 mm

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	10/04/2019	11/04/2019	12/04/2019	13/04/2019	14/04/2019
Rainfall (mm)	Light rainfall	Very light rainfall	Very light rainfall	Light rainfall	Light rainfall
Max Temp (⁰ C)	19	20	21	20	19
Min Temp (⁰ C)	11	11	12	12	11
Sky condition	Generally cloudy	Generally cloudy	Partially clear	Generally cloudy	Generally cloudy
Max RH (%)	91	90	89	91	93
Min RH (%)	65	60	60	70	75
Wind Speed (KmpH)	5	4	3	4	4
Wind Direction (deg)	NW	NW	NW	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	Date Rainfall Max. Temp Min. Temp					
	(mm)	(°C)	(°C)			
6/4/2019	000	13.5	13.6			
7/4/2019	000	20.0	10.9			
8/4/2019	N/A	22.5	10.8			

Weather forecast valid up to 14th April 2019

- > Probability of light rainfall
- > Max temp may be vary from 19-21°C, whereas, Min temp may vary from 11-12°C
- > Sky will remain generally cloudy
- Max RH is likely to be 8-93%, whereas, Min RH may var from 60-75%
- > Wind speed may likely vary from 3-5 km/hr.
- > Wind direction may blow from north westerly to northerly
- > Weekly cumulative rainfall= 19 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	iral 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.	
	dolomite @ 2 t/ha before
	d mix properly with soil.
	nonitoring for pest and
cardamom management disease inc	
	nagement with the proper
lopping of	•
	ng of okra, beans etc. can
vegetables and Sowing be done	ing of okra, beans etc. ean
und bowing be done	
Pea Pod maturity, Soil mois	ture should be maintained
harvesting for good y	ield.
Marvest th	ne fully developed pod in
early morn	ing.
● For green	pods of pea, pick/harvest at
4-5 days	interval so as to stimulate
generation	of new flowers.
◆ Cautious j	picking should be done to
avoid plan	t damage
Tomato/Red Transplanting Fruit borer/ white fly/ Nursery sl	nould prepare at 15 cm of
cherry late blight height wit	h 1 m width and length as
pepper/Brinjal per farmer	s convenience.
● 25-28 day	s old seedlings should be
planted at	60 cm × 45 cm
● Bed should	d be prepared to a fine tilth
by mixing	well decomposed FYM @
	and vermicompost @ 150
	pated with 1% Trichoderma
	management of soil borne
diseases.	
	legradable polyfilm for
mulching	
	intenance and manuring
	@ 30-35 kg/tree should be
	oid application of FYM
close to the	
	should be painted with
	mixture @ 1%.
Animal Sciences and livestock management	t
	of concentrate feed along
with miner	al mixture and salt.
♦ Hay feedir	ng is recommended.
Yak • Feeding of	of concentrate feed along
with miner	al mixture and salt.
● Hay feedir	ng 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		•	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
Poultry	Coccidiosis, Ranikhet disease	•	is recommended. 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 viz., 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