

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 27th APRIL TO 1st MAY' 2019



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





ISSUED ON TUESDAY 26th 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

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Value Added forecast for NORTH-DISTRICT for next five days

Parameter/Date	27/04/2019	28/04/2019	29/04/2019	30/04/2019	01/05/2019
Rainfall (mm)	Light rainfall				
Max Temp (⁰ C)	29	28	27	28	28
Min Temp (⁰ C)	15	14	14	15	15
Sky condition	Generally cloud				
Max RH (%)	90	90	91	90	88
Min RH (%)	78	78	80	79	77
Wind Speed (KmpH)	3	4	5	4	3
Wind Direction (deg)	S	SW	SW	SW	Sw

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

Weather for preceding week				
Date	Rainfall	Max. Temp	Min. Temp	
	(mm)	(°C)	(°C)	
23/4/2019	000	28.0	09.0	
24/4/2019	000	29.1	08.2	
25/4/2019	000	30.0	09.0	

- > Probability of light rainfall
- Max temp may be varying from 27-29°C, whereas, Min temp may vary from 14-15°C
- > Sky will remain generally cloudy
- > Max RH is likely to be 88-91%, whereas, Min RH may var from 77-80 %
- > Wind speed may likely vary from 3-5 km/hr.
- > Wind direction may blow from southwesterly to southwesterly
- > Weekly cumulative rainfall= 24 mm

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	27/04/2019	28/04/2019	29/04/2019	30/04/2019	01/05/2019
Rainfall (mm)	Light rainfall				
Max Temp (⁰ C)	22	20	19	20	20
Min Temp (⁰ C)	14	13	12	13	13
Sky condition	Generally cloud				
Max RH (%)	90	91	91	90	89
Min RH (%)	72	74	74	72	70
Wind Speed (KmpH)	3	4	3	4	4
Wind Direction (deg)	SW	NE	NE	NE	NE

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

	Weather for preceding week				
Date	Rainfall	Max. Temp	Min. Temp		
	(mm)	(°C)	(°C)		
23/4/2019	001	20.7	11.7		
24/4/2019	000	22.4	13.7		
25/4/2019	000	23.9	15.0		

- > Probability of light rainfall
- > Max temp may be varying from 20-22°C, whereas, Min temp may vary from 12-14°C
- > Sky will remain generally cloudy
- > Max RH is likely to be 89-91%, whereas, Min RH may var from 70-74%
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from southwesterly to northeasterly
- > Weekly cumulative rainfall= 28 mm
- Thunderstorm with lightning and gusty winds (reaching 40-50 kmph) very likely to affect one or two places of the district on 28th and 29th April 2019

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	27/04/2019	28/04/2019	29/04/2019	30/04/2019	01/05/2019
Rainfall (mm)	No rain	Light rainfall	Light rainfall	No rainfall	Very light rainfall
Max Temp (⁰ C)	27	26	25	26	26
Min Temp (⁰ C)	15	15	14	15	15
Sky condition	Partially clear	Generally cloudy	Generally cloudy	Partially clear	Generally cloudy
Max RH (%)	80	86	88	78	86
Min RH (%)	74	76	78	70	76
Wind Speed (KmpH)	4	5	4	3	4
Wind Direction (deg)	S	Ν	Ν	NE	NE

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

	Weather for preceding week					
Date	Rainfall	Max. Temp	Min. Temp			
	(mm)	(°C)	(°C)			
23/4/2019	001	25.0	15.5			
24/4/2019	000	27.0	14.0			
25/4/2019	000	28.5	15.5			

- > There will be chances of light rainfall
- > Max temp may be varying from 25-27°C, whereas, Min temp may vary from 14-15°C
- > Sky will remain generally cloudy
- > Max RH is likely to be 78-86 %, whereas, Min RH may var from 70-78 %
- > Wind speed may likely vary from 3-5 km/hr.
- > Wind direction may blow from southerly to northerly and finally northeasterly
- > Weekly cumulative rainfall= 14 mm
- Thunderstorm with lightning and gusty winds (reaching 40-50 kmph) very likely to affect one or two places of the district on 29th April 2019

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	27/04/2019	28/04/2019	29/04/2019	30/04/2019	01/05/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Very light rainfall	Light rainfall
Max Temp (⁰ C)	25	25	24	25	25
Min Temp (⁰ C)	14	14	13	14	14
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	88	90	90	88	88
Min RH (%)	78	80	80	78	78
Wind Speed (KmpH)	4	3	5	4	5
Wind Direction (deg)	NW	NW	NW	NW	NW

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

	Weather for preceding week				
Date	te Rainfall Max. Temp Min. Temp				
	(mm)	(°C)	(°C)		
23/4/2019	N/A	21.7	11.1		
24/4/2019	N/A	24.8	12.6		
25/4/2019	N/A	24.9	14.1		

- > Probability of light rainfall
- > Max temp may be varying from 24-25°C, whereas, Min temp may vary from 13-14°C
- > Sky will remain generally cloudy
- Max RH is likely to be 88-92 %, whereas, Min RH may var from 78-80 %
- > Wind speed may likely vary from 3-5 km/hr.
- > Wind direction may blow from northwesterly
- > Weekly cumulative rainfall= 22 mm
- Thunderstorm with lightning and gusty winds (reaching 40-50 kmph) very likely to affect one or two places of the district on 27th and 28th 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.

crop/Animal Maize Land	Pest/ D	iseases	
Maize Land	Agricultural allu	Horticultur	ral crops:
	d 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 Harv	vesting		Should done at physiological maturity
Mustard/Toria Harv	vesting		Should done at physiological maturity
Ginger Field	d 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 cardamom	Post-harvest crop management		 Regular monitoring for pest and disease incidence. Shade management with the proper lopping of trees.
Early kharif vegetables	Land preparation and Sowing		Seed sowing of okra, beans etc. can be done
Pea	Pod maturity, harvesting		 Soil moisture should be maintained for good yield. 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 cherry pepper/Brinjal	Transplanting	Fruit borer/ white fly/ late blight	 Nursery should prepare at 15 cm of height with 1 m width and length as per farmers convenience. 25-28 days old seedlings should be planted at 60 cm × 45 cm Bed should be prepared to a fine tilth by mixing well decomposed FYM @ 5 kg/m2 and vermicompost @ 150 g/m² incubated with 1% <i>Trichoderma viride</i> for management of soil borne diseases. Use biodegradable polyfilm for mulching
Sikkim Mandarin	Vegetative flush		 Basin maintenance and manuring 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 Sciences and	livestock	management
Tibetan Sheep			Feeding of concentrate feed along with mineral mixture and salt.

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Feeding of c	oncentrate feed along
	mineral mixture and
salt.	
Periodic appli	cation of fly repellents
and/or nettin	g of dung pit are
recommended.	
Cattle	ling of dairy animals
and allow calf	f suckling immediately
	ion. Colostrum (first
three days mil	k) feeding to new born
calf for first th	nree days of life should
be ensured.	
🔷 Full hand	milking should be
practiced.	
Frequent inc	complete milking at
interval of 4h	rs should be practiced
after parturitio	n for minimum 1 week.
	mplete milking in a day
is recommende	ed.
Poultry Coccidiosis, Ranikhet < 16 hrs of light	(natural and electrical)
	vided to adult birds for
optimum egg p	
	ng and liming of deep
litter materials.	
	turmeric powder @
	for prevention of
coccidiosis.	
	of brooder temperature
	h the help of electrical
bulbs for initia	
	ination at 5-7 days and
at 28-30 days of	-
	grit and multi vitamin
supplementation	on 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	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	Metrological observer	Biochemistry