

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 1st MAY to 5th MAY'2019



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





ISSUED ON TUESDAY 30th 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	01/05/2019	02/05/2019	03/05/2019	04/05/2019	05/05/2019
Rainfall (mm)	Moderate rainfall	Light rainfall	Light rainfall	Moderate rainfall	Moderate rainfall
Max Temp (⁰ C)	26	27	27	25	23
Min Temp (⁰ C)	17	18	18	14	14
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	92	90	90	92	92
Min RH (%)	86	84	84	86	86
Wind Speed (KmpH)	4	5	4	4	3
Wind Direction (deg)	S	SE	SE	SE	S

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

	Weather for preceding week					
Date	Date Rainfall Max. Temp Min. Temp					
	(mm)	(°C)	(°C)			
27/4/2019	000	27.0	08.0			
28/4/2019	000	28.0	08.2			
29/4/2019	016	28.1	09.0			

- > Probability of moderate rainfall
- > Max temp may be varying from 23-27°C, whereas, Min temp may vary from 14-18°C
- > Sky will remain generally cloudy
- Max RH is likely to be 90-92 %, whereas, Min RH may var from 84-86 %
- > Wind direction may blow from southerly to southwesterly then again to southerly
- > Weekly cumulative rainfall= 85 mm
- **Thunderstorm with lightning and gusty winds (reaching 40-50 kmph) very likely to affect one or two places of** the district on 1st, 4th and 5th MAY, 2019

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	01/05/2019	02/05/2019	03/05/2019	04/05/2019	05/05/2019
Rainfall (mm)	Moderate rainfall				
Max Temp (⁰ C)	19	20	20	19	19
Min Temp (⁰ C)	13	14	14	13	13
Sky condition	Generally cloudy				
Max RH (%)	92	90	90	92	92
Min RH (%)	87	85	85	87	87
Wind Speed (KmpH)	4	4	3	3	4
Wind Direction (deg)	NE	NE	NE	Ε	NE

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

	Weather for preceding week				
DateRainfallMax. TempMin. Temp					
	(mm)	(°C)	(°C)		
27/4/2019	009	17.2	15.0		
28/4/2019	006	21.7	15.6		
29/4/2019	041	21.8	15.0		

- > Probability of moderate rainfall
- >> Max temp may be varying from 19-20°C, whereas, Min temp may vary from 13-14°C
- > Sky will remain generally cloudy
- > Max RH is likely to be 90-92 %, whereas, Min RH may var from 85-87 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from northeasterly to easterly and then again northeasterly
- > Weekly cumulative rainfall= 87 mm
- Thunderstorm with lightning and gusty winds (reaching 40-50 kmph) very likely to affect one or two places of the district on 1st, 3rd. 4th and 5th MAY, 2019

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	01/05/2019	02/05/2019	03/05/2019	04/05/2019	05/05/2019
Rainfall (mm)	Light rainfall	Very light rainfall	Very light rainfall	Light rainfall	Light rainfall
Max Temp (⁰ C)	25	26	25	22	22
Min Temp (⁰ C)	15	16	16	14	13
Sky condition	Generally cloudy	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	88	87	87	89	90
Min RH (%)	78	77	77	79	80
Wind Speed (KmpH)	4	3	3	2	4
Wind Direction (deg)	NE	NE	NE	NE	NE

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

	Weather for preceding week					
Date	DateRainfallMax. TempMin. Temp					
	(mm)	(°C)	(°C)			
27/4/2019	008	20.5	11.0			
28/4/2019	003	24.0	11.5			
29/4/2019	002	26.5	13.0			

- > There will be chances of light rainfall
- > Max temp may be varying from 22-26°C, whereas, Min temp may vary from 14-16°C
- > Sky will remain generally cloudy
- > Max RH is likely to be 87-90 %, whereas, Min RH may var from 77-80 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from north easterly
- > Weekly cumulative rainfall=42 mm
- Thunderstorm with lightning and gusty winds (reaching 40-50 kmph) very likely to affect one or two places of the district on 1st, 4th and 5th MAY, 2019

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	01/05/2019	02/05/2019	03/05/2019	04/05/2019	05/05/2019
Rainfall (mm)	Moderate rainfall	Light rainfall	Light rainfall	Moderate rainfall	Moderate rainfall
Max Temp (⁰ C)	23	24	24	21	21
Min Temp (⁰ C)	14	15	15	13	13
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	92	92	90	92	92
Min RH (%)	86	86	85	87	87
Wind Speed (KmpH)	4	4	3	2	3
Wind Direction (deg)	NW	NW	NW	NE	NW

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

	Weather for preceding week					
Date	DateRainfallMax. TempMin. Temp					
	(mm)	(°C)	(°C)			
27/4/2019	N/A	18.3	15.6			
28/4/2019	N/A	N/A	15.3			
29/4/2019	N/A	23.1	15.7			

- > Probability of light rainfall to moderate rainfall
- > Max temp may be varying from 21- 24°C, whereas, Min temp may vary from 13-15°C
- > Sky will remain generally cloudy
- > Max RH is likely to be 90-92 %, whereas, Min RH may var from 85-87 %
- > Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow to Northwesterly to northeasterly
- > Weekly cumulative rainfall= 21 mm
- Thunderstorm with lightning and gusty winds (reaching 40-50 kmph) very likely to affect one or two places of the district on 1st, 4th and 5th MAY, 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 crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories	
	Agricu	Itural and Horticult	ural crops:	
Maize	Land preparation a		 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 furrow Apply well decomposed FYM @ 2 t/ha + mixed compost 2.5 t/ha + 0 t/ha neem cake and mix properly wi soil 7-10 days before sowing 	/s 2.5 0.5
Buckwheat	Harvesting		Should done at physiological maturi	ity
Mustard/Toria	Harvesting		Should done at physiological maturi	ity
Ginger	Field preparation		 Identify healthy plants for see rhizomes. Selected rhizomes for plantin material should be kept in parti shade for better sprouting. Store the seed rhizome in the pit for month to break the dormancy Forest litter should be collected we in advance as mulching material. 	ng ial r a

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					Apply well decomposed FYM @ 20- 25 $t/ha + 1.0 t/ha$ neem cake and mix
					properly with soil 7-10 days before
					sowing.
				٨	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.
				٨	Shade management with the proper
					lopping of trees.
Early kharif	Land preparation a	nd Sowing		٨	Seed sowing of okra, beans etc. can
vegetables					be done
Pea	Pod maturity, harve	esting		\$	Soil moisture should be maintained
					for good yield.
					Harvest the fully developed pod in early morning.
				٨	For green pods of pea, pick/harvest at
					4-5 days interval so as to stimulate
					generation of new flowers.
				٨	Cautious picking should be done to
					avoid plant damage
Tomato/Red	Transplanting		Fruit	۲	Nursery should prepare at 15 cm of
cherry			borer/		height with 1 m width and length as
pepper/Brinjal			white		per farmers convenience.
			fly/ late		25-28 days old seedlings should be
			blight	~	planted at $60 \text{ cm} \times 45 \text{ cm}$
					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>
					<i>viride</i> for management of soil borne
					diseases.
				۲	Use biodegradable polyfilm for
					mulching
Sikkim	Vegetative flush			٨	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 Sci	ences and l	<i>ivestock</i>	<i>ma</i>	
Tibetan Sheep					Feeding of concentrate feed along
					with mineral mixture and salt.
					Hay feeding is recommended.

Yak		۲	Feeding of concentrate feed along
			with mineral mixture and salt.
		۵	Hay feeding is recommended.
		٨	Trimming of hair is recommended.
Sheep and Goat		۲	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.
		۵	Breeding of the sheep/goat should be
			done 24-30 hr after observation of
			heat.
		٢	Feeding of concentrate feed along
		Ť	with jaggery, mineral mixture and
			salt.
		۲	Periodic application of fly repellents
			and/or netting of dung pit are
			recommended.
Cattle		٨	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.
		٨	Full hand milking should be
			practiced.
		٨	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, Ranikhet	۵	16 hrs of light (natural and electrical)
	disease		should be provided to adult birds for
			optimum egg production.
		٥	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	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