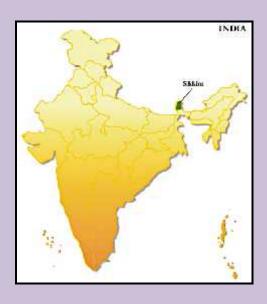


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 3rd JULY to 7th JULY 2019



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





ISSUED ON 2nd July 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	03/07/2019	04/07/2019	05/07/2019	06/07/2019	07/07/2019
Rainfall (mm)	Light rainfall	Light rainfall	Moderate rainfall	Moderate rainfall	Light rainfall
Max Temp (⁰ C)	28	29	27	25	26
Min Temp (⁰ C)	20	21	20	20	21
Sky condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Cloudy	Generally Cloudy
Max RH (%)	94	90	92	94	90
Min RH (%)	84	80	82	85	81
Wind Speed (KmpH)	2	4	3	4	3
Wind Direction (deg)	S	SE	SE	S	S

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)	
29/6/2019	000	29.8	19.5	
30/6/2019	000	31.3	19.9	
01/07/2019	N/A	N/A	20.8	

Weather forecast valid up to 7th July 2019

- > Probability of light rainfall
- Max temp may be varying from 26-28°C, whereas, Min temp may vary from 20-21°C
- > Sky will remain generally cloudy
- Max RH is likely to be 90-94 %, whereas, Min RH may vary from 80-85 %
- > Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow from southerly to southeasterly and again southerly
- > Weekly cumulative rainfall=98 mm
- > Heavy rain may occur on Friday and Saturday

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	03/07/2019	04/07/2019	05/07/2019	06/07/2019	07/07/2019
Rainfall (mm)	Light rainfall	Light rainfall	Moderate rainfall	Moderate rainfall	Light rainfall
Max Temp (⁰ C)	22	23	23	21	22
Min Temp (⁰ C)	18	19	19	18	18
Sky condition	Cloudy	Generally Cloudy	Generally Cloudy	Cloudy	Generally Cloudy
Max RH (%)	95	92	94	95	92
Min RH (%)	88	82	85	89	84
Wind Speed (KmpH)	2	3	2	2	4
Wind Direction (deg)	NE	NE	SW	E	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. Tem				
	(mm)	(°C)	(°C)	
29/6/2019	011	24.7	17.2	
30/6/2019	002	24.7	17.8	
01/07/2019	000	26.0	19.0	

Weather forecast valid up to 7thJuly 2019

- > Probability of Light rainfall
- Max temp may be varying from 21-23°C, whereas, Min temp may vary from 18-19°C
- > Sky will remain generally cloudy
- Max RH is likely to be 92-95 %, whereas, Min RH may vary from 82-89 %
- > Wind speed may likely vary from 2-4km/hr.
- > Wind direction may blow from northeasterly to southwesterly and finally easterly to northeasterly
- > Weekly cumulative rainfall= 84 mm
- > Heavy rain may occur on Friday and Saturday

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	03/07/2019	04/07/2019	05/07/2019	06/07/2019	07/07/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp (⁰ C)	28	29	28	27	28
Min Temp (⁰ C)	18	19	18	17	18
Sky condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Max RH (%)	92	90	91	93	90
Min RH (%)	82	80	82	85	82
Wind Speed (KmpH)	2	3	3	4	4
Wind Direction (deg)	NE	NE	S	E	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)		
29/6/2019	002	30.5	16.0		
30/6/2019	000	N/A	16.5		
01/07/2019	N/A	N/A	N/A		

Weather forecast valid up to 7th July 2019

- There will be chances of light rainfall
- Max temp may be varying from 27-28°C, whereas, Min temp may vary from 17-19°C
- > Sky will remain generally cloudy
- Max RH is likely to be 90-92 %, whereas, Min RH may var from 80-85 %
- > Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow from north easterly to southerly and then easterly to northeasterly
- > Weekly cumulative rainfall= 46 mm

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	03/07/2019	04/07/2019	05/07/2019	06/07/2019	07/07/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp (⁰ C)	24	25	24	22	23
Min Temp (⁰ C)	18	19	18	17	18
Sky condition	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Max RH (%)	92	90	92	93	90
Min RH (%)	82	80	82	85	80
Wind Speed (KmpH)	3	3	4	4	4
Wind Direction (deg)	S	S	N	N	S

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)	
29/6/2019	005	26.6	17.5	
30/6/2019	006	27.6	16.9	
01/07/2019	N/A	N/A	18.6	

Weather forecast valid up to 7th July 2019

- > Probability of light rainfall
- Max temp may be varying from 22-25°C, whereas, Min temp may vary from 17-19°C
- > Sky will remain generally cloudy
- Max RH is likely to be 90-93%, whereas, Min RH may var from 80-85 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from southerly to northerly and finally southerly
- > Weekly cumulative rainfall= 40 mm

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- **▶** Bunding at terrace should be done to reduce nutrient losses due to heavy rainfall
- Keep the field ready for paddy transplanting
- **▶** Jalkund should be dug out for rain water harvesting.
- **▶** Spraying of bio pesticides (neem based formulation 1500 ppm @5ml/lit. and copper oxy chloride 50%WP @ 2.5g/lit.) at weekly interval for insect pest and diseases.
- Regular supplementation of vitamins and mineral mixture to the livestock to improve the productive and reproductive performance of animals.
- Milching animals should be feed 70-80 ml Calcium daily for better milk yield and good health

Name of the	Stage	Cultural p	ractices/	Agro-Met Advisories
crop/Animal	Buge	Pest/ Diseases		rigio iviet riavisories
	Agricu	ultural and H	lorticultu	ral crops:
Maize	Knee heigh	t stage	Army worm	 Field should be weed free without damaging the main crop while uprooting the weeds. Two foliar spray of neem based formulation (1500ppm) @ 0.5% or 5 ml/lit. of water at weekly interval Avoid weeding during tasseling stage Keep drainage facilities in field Regular inspection of field for insect pest infestation The harvested cobs should be well dry at moisture content at 10-12 % Use bird scarer for the control of birds
Rice	Main field prepa transplan			 Start field preparation for paddy transplantation through repairing old bunds by maintaining 20-30 cm height in lowland situation As sufficient moisture is available due to moderate/heavy rain in the previous days, farmers should start ploughing of their main field.

			 Uprooting of 25-30 days old rice seedlings may be done depending on availability of water for transplantation Seedling of Main season rice can be raised up to first week of July and can be transplanted within 3rd week of July (for late transplanting). Application of FYM 10-15 t/ha or vermicompost @ 3-6 t/ha either alone or in combination should be applied at 10 days before transplanting Green manuring with dhaincha (susbania aculeata) can be incorporated
Ginger/	Mulching		Apply bio mulch @10 t/ha to cover
Turmeric Large	Planting		the ridges and furrows of the fieldA 2 years old nursery suckers should
cardamom	Tanung		be planted in the main field
	SEMANT		♠ A spacing of 1.8×1.8 m² should be maintained.
			Young white coloured roots should not be destroy while planting, while old roots should trimmed out.
Early kharif vegetables	Vegetative growth		Weeding and intercultural operation should be done
Tomato/Red	Vegetative	Blight	Plants should be keep weed free and
cherry			avoid water stagnation
pepper/Brinjal			Spraying of COC @ 2-3 ml/lit. at weekly interval
			Five spray of neem based formulation
			1500 ppm @ 5 ml/1 lit. of weekly
Sikkim	Planting/fruiting		interval for controlling of <i>Aphids</i>Keep the orchard weed free
Mandarin	Fianting/fruiting		Digging the pit of 3 cubic feet for
			transplanting new saplings
			Top soil of the pit should be mixed
	Animal Sciences and I	livestock	with FYM @20 kg/pit
Tibetan Sheep	Timinal Sololisos alla l		◆ Feeding of concentrate feed along
-10 т.ш. жисер			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
				during summer season
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 within 12-18 hours
				after onset of heat symptoms
			•	Breeding of the sheep/goat should be
				done 24-30 hr. after onset of heat.
				Feeding of concentrate feed along
				with jaggery, mineral mixture and salt
				is recommended.
			•	Periodic application of fly repellents
				and/or netting of dung pit is
				recommended.
Cattle			•	Balanced feeding of dairy animals
				and allow calf suckling immediately
				after parturition is recommended.
				Colostrum (first three days milk)
				feeding to new born calf for first three
				days of life should be ensured.
			9	Full hand milking should be
			_	practiced.
			*	Frequent incomplete milking at
				interval of 4hrs should be practiced
				after parturition for minimum 1 week. Later on, complete milking in
				subsequent day is recommended.
Poultry		Coccidi	۵	16 hrs of light (natural and electrical)
1 outry	0	osis,		should be provided to adult birds for
		Ranikh		optimum egg production.
	《 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图	et	•	Frequent raking and liming of deep
		disease	-	litter materials is recommended.
			•	Inclusion of turmeric powder @
				10g/kg in poultry 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 is highly
				recommended.
			•	Calcium/shell grit and multi vitamin

			supplementation is strongly recommended to optimize egg production. Occasional spraying of ectoparasiticides viz., deltamethrin/cypermethrin @ 1% v/v
Pig	All stages	Swine	in water is recommended. Neep floor dry to avoid skin diseases.
1 ig	Till stages	fever	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.
			Farmers can incorporate low cost
			locally available feed resources
			(60%0 for feeding Pigs to reduce the
			cost of feed.

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