

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 10th JULY to 14th JULY 2019



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





ISSUED ON 9th 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

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Value Added forecast for NORTH-DISTRICT for next five days

Parameter/Date	10/07/2019	11/07/2019	12/07/2019	13/07/2019	14/07/2019
Rainfall (mm)	Moderate rainfall				
Max Temp (⁰ C)	24	25	24	24	24
Min Temp (⁰ C)	20	21	20	20	19
Sky condition	Overcast	Generally cloudy	Overcast	Overcast	Overcast
Max RH (%)	98	96	98	98	98
Min RH (%)	92	90	92	92	92
Wind Speed (KmpH)	2	3	2	3	3
Wind Direction (deg)	S	SE	SE	SE	E

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)			
06/7/2019	018	29.9	20.5			
07/7/2019	013	27.9	20.8			
08/7/2019	029	24.4	20.8			

Weather forecast valid up to 14th July 2019

- > Probability of moderate rainfall
- Max temp may be varying from 24-25°C, whereas, Min temp may vary from 19-21°C
- > Sky will remain overcasted
- Max RH is likely to be 96-98 %, whereas, Min RH may vary from 90-92 %
- > Wind speed may likely vary from 2-3 km/hr.
- > Wind direction may blow from southerly to southeasterly and again easterly
- > Weekly cumulative rainfall=115 mm
- > Heavy rain may occur on WEDNESDAY, THURSDAY, FRIDAY and SATURDAY

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	10/07/2019	11/07/2019	12/07/2019	13/07/2019	14/07/2019
Rainfall (mm)	Moderate rainfall				
Max Temp (⁰ C)	20	21	21	21 21	
Min Temp (⁰ C)	18	18	19	19 19	
Sky condition	Overcast	Generally cloudy	Overcast	Overcast	Overcast
Max RH (%)	97	96	97	97	97
Min RH (%)	92	90	92	92	92
Wind Speed (KmpH)	2	3	3	3	2
Wind Direction (deg)	NE	E	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. Tem					
	(mm)	(°C)	(°C)		
06/7/2019	056	21.2	18.3		
07/7/2019	031	20.6	18.5		
08/7/2019	058	19.9	18.6		

Weather forecast valid up to 14thJuly 2019

- > Probability of moderate rainfall
- Max temp may be varying from 20-21°C, whereas, Min temp may vary from 18-19°C
- > Sky will remain overcasted
- Max RH is likely to be 96-97 %, whereas, Min RH may vary from 90-92 %
- Wind speed may likely vary from 2-3 km/hr.
- > Wind direction may blow from northeasterly to easterly and again northeasterly
- > Weekly cumulative rainfall= 90 mm
- > Heavy rain may occur on WEDNESDAY and THRUSDAY

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	10/07/2019	11/07/2019	12/07/2019	13/07/2019	14/07/2019
Rainfall (mm)	Light rainfall	Light rainfall	Moderate rainfall	Moderate rainfall	Light rainfall
Max Temp (⁰ C)	26	26	27	27	27
Min Temp (⁰ C)	18	18	19	19	19
Sky condition	Generally cloudy	Generally cloudy	Overcast	Generally cloudy	Generally cloudy
Max RH (%)	92	92	93	92	90
Min RH (%)	89	89	90	89	88
Wind Speed (KmpH)	3	3	4	3	4
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)			
06/7/2019	007	28.5	17.0			
07/7/2019	007	29.0	17.0			
08/7/2019	009	29.5	18.0			

Weather forecast valid up to 14th July 2019

- There will be chances of light rainfall
- Max temp may be varying from 26-27°C, whereas, Min temp may vary from 18-19°C
- > Sky will remain generally cloudy
- Max RH is likely to be 90-93 %, whereas, Min RH may var from 88-90 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from northeasterly
- > Weekly cumulative rainfall= 65 mm
- > Heavy rain may occur on FRIDAY

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	10/07/2019	11/07/2019	12/07/2019	13/07/2019	14/07/2019
Rainfall (mm)	Moderate rainfall				
Max Temp (⁰ C)	21	21	22	22	23
Min Temp (⁰ C)	18	18	19	19	19
Sky condition	Overcast	Generally cloudy	Overcast	Overcast	Generally cloudy
Max RH (%)	97	96	97	97	95
Min RH (%)	92	90	92	92	90
Wind Speed (KmpH)	2	2	3	2	3
Wind Direction (deg)	NW	S	N	NW	N

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)			
06/7/2019	N/A	24.9	18.4			
07/7/2019	025	22.7	18.2			
08/7/2019	018	20.8	18.8			

Weather forecast valid up to 14th July 2019

- > Probability of moderate rainfall
- Max temp may be varying from 21-23°C, whereas, Min temp may vary from 18-19°C
- > Sky will remain overcasted
- Max RH is likely to be 95-97 %, whereas, Min RH may var from 86-89 %
- > Wind speed may likely vary from 2-3 km/hr.
- > Wind direction may blow from northwesterly to southerly and northerly to northwesterly finally again northerly
- > Weekly cumulative rainfall= 105 mm
- > Heavy rain may occur on THRUSDAY

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
- Crop field should be free from weed, during flowering stage
- 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
- **▶** Vaccinate cattle, goat and pig against Foot and Mouth Diseases (FMD).

Name of the crop/Animal	Stage	Cultural pr Pest/ Dis		Agro-Met Advisories
Стоританных	Agricu	ultural and H		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 <i>dhaincha</i> (<i>susbania aculeata</i>) can be incorporated
Ginger/ Turmeric	Tillering stage		•	Remove the weeds without breaking the sprouted ginger tillers. Drench the ginger field with cow urine at 1:4 (urine: water) ratio or fresh cow dung slurry at fortnightly interval
Large	Planting			Start spraying copper oxy chloride @ 0.25 % at weekly interval A 2 years old nursery suckers should
cardamom	Tuning		•	be planted in the main field A spacing of 1.8×1.8 m ² 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
Red cherry pepper/Brinjal	Vegetative	Blight	•	Plants should be keep weed free and avoid water stagnation Spraying of COC @ 2-3 ml/lit. at weekly interval Five spray of neem based formulation 1500 ppm @ 5 ml/1 lit. of weekly interval for controlling of <i>Aphids</i>

Cole crops/ Tomato	Nursery preparation		•	Start preparation of nursery beds for early and late kharif tomato Use early varieties of cabbage (early ball) cauliflower (white excel), broccoli (Aishwarya) and tomato (varieties Arka rakshak, Arka samrat, and All rounder Apply FYM 2 kg/m², neem cake @ 200 g/m², Trichoderma@ 1 % should be incorporated in soil during nursery bed preparation. Nursery bed should be prepared inside the poly tunnel/rain shelter system.
Sikkim Mandarin	Planting/fruiting		•	Keep the orchard weed free Digging the pit of 3 feet× 3 feet × 3 feet for transplanting new saplings Top soil of the pit should be mixed with FYM @20 kg/pit
	Animal Sciences and I	livestock	ma	nagement
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. 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
Cattle			•	recommended. Balanced feeding of dairy animals and allow calf suckling immediately after parturition is recommended. Colostrum (first three days milk)

			days of life show Full hand no practiced. Frequent inco- interval of 4hrs after parturition Later on, co- subsequent days	mplete milking at should be practiced for minimum 1 week. mplete milking in a recommended.
Poultry		Coccidi osis, Ranikh et disease	should be provi optimum egg property optimum egg property of Frequent raking litter materials is Inclusion of the 10g/kg in poultry of coccidiosis. Maintenance of for chicks with bulbs for initial of Ranikhet vaccing 7 days and at the highly recommended production. Calcium/shell group supplementation recommended production. Occasional ectoparasiticides	and liming of deep a recommended. The provided recommended recomm
Pig	All stages	Swine fever	Weaning is reco of 8 weeks for weeks for indige Swine fever vac months is recom Critical heat morning and recommended. Farmers can in locally available	o avoid skin diseases. commended at the age or crossbreds and 10 chous pigs. coine at the age of 3 mended. detection in early

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