

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 26th JUNE to 30th JUNE' 2019



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





ISSUED ON TUESDAY 25th JUNE'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	26/06/2019	27/06/2019	28/06/2019	29/06/2019	30/06/2019
Rainfall (mm)	Moderate rainfall	Moderate rainfall	Moderate rainfall	Light rainfall	Light rainfall
Max Temp (⁰ C)	29	27	28	28	29
Min Temp (⁰ C)	21	19	20	20	20
Sky condition	Generally cloudy	Cloudy	Cloudy	Generally cloudy	Generally cloudy
Max RH (%)	95	95	95	94	94
Min RH (%)	88	88	88	87	87
Wind Speed (KmpH)	003	003	003	004	004
Wind Direction (deg)	S	SW	Ε	SE	E

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

Weather for preceding week							
Date	DateRainfallMax. TempMin. Temp						
	(mm)	(°C)	(°C)				
22/6/2019	006	32.0	09.0				
23/6/2019	000	31.0	18.0				
24/6/2019	000	30.2	17.0				

- >> Probability of moderate rainfall
- > Max temp may be varying from 27-29°C, whereas, Min temp may vary from 19-21°C
- >> Sky will remain generally cloudy
- Max RH is likely to be 94-95 %, whereas, Min RH may vary from 87-88 %
- >> Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from southerly to southeasterly then finally easterly to southeasterly
- > Weekly cumulative rainfall=115 mm
- > Heavy to very heavy rain very likely to occur at one or two places on Tuesday, Wednesday, Thursday and Heavy Rain very likely to occur at one or two places on Friday.

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	26/06/2019	27/06/2019	28/06/2019	29/06/2019	30/06/2019
Rainfall (mm)	Moderate rainfall	Moderate rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp (⁰ C)	22	22	23	23	22
Min Temp (⁰ C)	17	17	18	18	17
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	95	95	92	92	92
Min RH (%)	88	88	86	86	86
Wind Speed (KmpH)	002	002	002	004	004
Wind Direction (deg)	Ε	Ε	NE	SE	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)			
22/6/2019	000	24.1	19.1			
23/6/2019	012	24.9	17.1			
24/6/2019	001	24.8	18.9			

- >> Probability of Light rainfall
- Max temp may be varying from 22-23°C, whereas, Min temp may vary from 17-18°C
- >> Sky will remain generally cloudy
- Max RH is likely to be 92-95 %, whereas, Min RH may vary from 86-88 %
- >> Wind speed may likely vary from 2-4km/hr.
- > Wind direction may blow from easterly to southeasterly and finally again northeasterly
- > Weekly cumulative rainfall= 83 mm
- **Heavy Rain very likely to occur at one or two places on Tuesday and Wednesday**

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	26/06/2019	27/06/2019	28/06/2019	29/06/2019	30/06/2019
Rainfall (mm)	Light rainfall				
Max Temp (⁰ C)	25	24	24	25	24
Min Temp (⁰ C)	17	16	16	17	17
Sky condition	Generally cloudy				
Max RH (%)	92	93	92	91	92
Min RH (%)	85	86	86	85	86
Wind Speed (KmpH)	002	002	003	002	004
Wind Direction (deg)	NE	Ε	NE	SE	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)						
22/6/2019	000	30.0	14.0				
23/6/2019	007	29.0	16.0				
24/6/2019	000	N/A	15.0				

- There will be chances of light rainfall
- >> Max temp may be varying from 24-25°C, whereas, Min temp may vary from 16-17°C
- >> Sky will remain generally cloudy
- Max RH is likely to be 91-93 %, whereas, Min RH may var from 85-86 %
- >> Wind speed may likely vary from 2-3 km/hr.
- > Wind direction may blow from north easterly to easterly, then again northeasterly and lastly southeasterly to northeasterly
- > Weekly cumulative rainfall= 47 mm
- >> Heavy Rain very likely to occur at one or two places on Tuesday and Wednesday

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	26/06/2019	27/06/2019	28/06/2019	29/06/2019	30/06/2019
Rainfall (mm)	Light rainfall				
Max Temp (⁰ C)	25	24	25	25	24
Min Temp (⁰ C)	18	17	18	18	17
Sky condition	Generally cloudy				
Max RH (%)	95	95	91	92	91
Min RH (%)	88	88	85	86	85
Wind Speed (KmpH)	004	004	004	003	004
Wind Direction (deg)	NW	NW	Ν	Ν	Ν

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)						
22/6/2019	004	27.3	18.1				
23/6/2019	000	27.1	18.3				
24/6/2019	009	26.8	18.5				

- >> Probability of light rainfall
- >> Max temp may be varying from 24-25°C, whereas, Min temp may vary from 17-18°C
- Sky will remain generally cloudy
- Max RH is likely to be 91-95%, whereas, Min RH may var from 85-88 %
- >> Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from northwesterly to northerly
- > Weekly cumulative rainfall= 58 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.
- Mulching animals should be feed 70-80 ml Calcium daily for better milk yield and good health

Name of the crop/Animal	Stage	Cultural p Pest/Dis		Agro-Met Advisories		
Agricultural and Horticultural crops:						
Maize	Knee height stage		Army worm	 Field should be weed free without damaging the main crop while uprooting the weeds. Earthing up should be done. Apply bio fertilizers @25 kg/ha and vermicompost @1.5 t/ha. 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 		
Rice	Nursery prep	paration		 1000 sq. m nursery area for planting one hectare of land is sufficient Well decomposed FYM should be applied 2-3 days before sowing @10 q/1000 sq. m In addition <i>Azospirillum</i> may be applied @2kg/1000 sq. m area. Seed rate @ 2.5-3.0 kg for 100 sq. m 		

Ginger/	Mulching			•	of area is sufficient for one hectare transplanting area Seed bed should be covered with thin layer of soil or compost immediate after sowing. Apply bio mulch @10 t/ha to cover
Turmeric	Dlanting				the ridges and furrows of the field
Large cardamom	Planting			*	A 2 years old nursery suckers should 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			۲	Weeding and intercultural operation should be done
Tomato/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>
Sikkim Mandarin	Planting/fruiting			 <th>Keep the orchard weed free Digging the pit of 3 cubic feet for transplanting new saplings Top soil of the pit should be mixed with FYM @20 kg/pit</th>	Keep the orchard weed free Digging the pit of 3 cubic feet for transplanting new saplings Top soil of the pit should be mixed with FYM @20 kg/pit
	Animal Science	s and l	IVESTOCK	ma	nagement
Tibetan Sheep				۵ ا	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 recommended.
Cattle		Coccidiosis, Ranikhet disease		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. 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. 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 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 <i>viz.</i> , deltamethrin/cypermethrin @ 1% v/v
Pig	All stages	Swine fever	۵	in water is recommended. Keep floor dry to avoid skin diseases.
1 15		Swine level	\$	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.
	۲	Farmers can incorporate low cost
		locally available feed resources
		(60%0 for feeding Pigs to reduce the
		cost of feed.

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
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Miss Tirtha Kumari Chettri	Met. Observer	Biochemistry