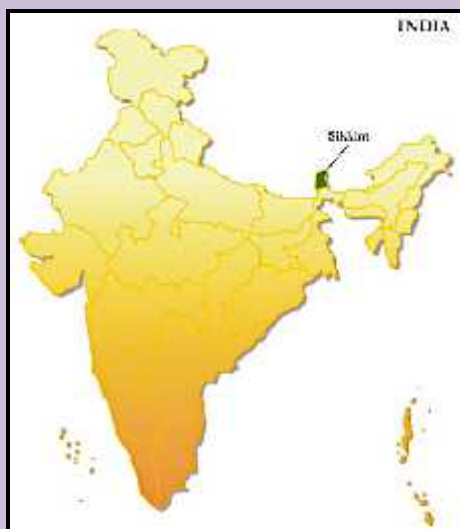




STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 29th MAY to 2nd JUNE'2019



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



ISSUED ON TUESDAY 28th MAY'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	29/05/2019	30/05/2019	31/05/2019	1/05/2019	02/05/2019
Rainfall (mm)	Moderate rainfall	Moderate rainfall	Light rainfall	Light rainfall	Moderate rainfall
Max Temp ($^{\circ}\text{C}$)	24	25	25	26	24
Min Temp ($^{\circ}\text{C}$)	17	17	17	17	18
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	93	92	90	90	92
Min RH (%)	86	85	84	84	87
Wind Speed (Kmph)	6	5	3	4	6
Wind Direction (deg)	SE	SE	SW	W	SW

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	Rainfall	Max. Temp	Min. Temp
	(mm)	($^{\circ}\text{C}$)	($^{\circ}\text{C}$)
25/05/2019	000	26.0	08.2
26/05/2019	139	24.0	08.0
27/06/2019	006	26.0	08.2

Weather forecast valid up to 2nd June 2019

- Probability of moderate to heavy rainfall
- Max temp may be varying from 24-26 $^{\circ}\text{C}$, whereas, Min temp may vary from 17-18 $^{\circ}\text{C}$
- Sky will remain generally cloudy
- Max RH is likely to be 90-93 %, whereas, Min RH may vary from 84-87 %
- Wind speed may likely vary from 3-6 km/hr.
- Wind direction may blow from southeasterly to south westerly then south westerly to westerly and finally and again southwesterly
- Weekly cumulative rainfall=96 mm
- **Heavy rain may occur on Wednesday and Thursday**

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	29/05/2019	30/05/2019	31/05/2019	1/06/2019	02/06/2019
Rainfall (mm)	Moderate rainfall	Moderate rainfall	Light rainfall	Light rainfall	Moderate rainfall
Max Temp ($^{\circ}\text{C}$)	20	20	21	21	20
Min Temp ($^{\circ}\text{C}$)	15	15	15	15	16
Sky condition	Cloudy	Cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	93	92	91	90	92
Min RH (%)	88	87	85	85	86
Wind Speed (Kmph)	3	3	2	2	3
Wind Direction (deg)	NE	N	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	Rainfall	Max. Temp	Min. Temp
	(mm)	($^{\circ}\text{C}$)	($^{\circ}\text{C}$)
25/05/2019	011	18.2	16.0
26/05/2019	012	19.2	14.8
27/06/2019	057	20.7	15.2

Weather forecast valid up to 2nd June 2019

- Probability of light rainfall to moderate rainfall
- Max temp may be varying from 20-21 $^{\circ}\text{C}$, whereas, Min temp may vary from 15-16 $^{\circ}\text{C}$
- Sky will remain cloudy
- Max RH is likely to be 90-93 %, whereas, Min RH may vary from 85-88 %
- Wind speed may likely vary from 2-3 km/hr.
- Wind direction may blow from northeasterly to northerly and finally northeasterly
- Weekly cumulative rainfall= 78 mm
- **Heavy rain may occur on Sunday.**

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	29/05/2019	30/05/2019	31/05/2019	1/06/2019	02/06/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp ($^{\circ}\text{C}$)	28	28	29	29	28
Min Temp ($^{\circ}\text{C}$)	15	14	14	14	15
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	92	90	88	88	90
Min RH (%)	82	80	78	78	81
Wind Speed (Kmph)	5	4	3	3	4
Wind Direction (deg)	N	N	000	S	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	Rainfall	Max. Temp	Min. Temp
	(mm)	($^{\circ}\text{C}$)	($^{\circ}\text{C}$)
25/05/2019	011	27.5	13.5
26/05/2019	012	29.5	12.5
27/06/2019	006	28.0	14.5

Weather forecast valid up to 2nd June 2019

- There will be chances of light rainfall
- Max temp may be varying from 28-29 $^{\circ}\text{C}$, whereas, Min temp may vary from 14-15 $^{\circ}\text{C}$
- Sky will remain partially clear
- Max RH is likely to be 88-92 %, whereas, Min RH may var from 78-82 %
- Wind speed may likely vary from 3-5 km/hr.
- Wind direction may blow from Northerly to southerly and then north easterly
- Weekly cumulative rainfall= 29 mm

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	29/05/2019	30/05/2019	31/05/2019	1/06/2019	02/06/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp (°C)	22	22	23	24	22
Min Temp (°C)	16	16	16	16	17
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	93	91	90	91	92
Min RH (%)	88	86	85	86	87
Wind Speed (Kmph)	3	3	2	2	3
Wind Direction (deg)	NW	NW	N	N	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	Rainfall	Max. Temp	Min. Temp
	(mm)	(°C)	(°C)
25/05/2019	N/A	17.6	N/A
26/05/2019	006	23.0	16.0
27/05/2019	N/A	24.7	16.6



Weather forecast valid up to 2nd June 2019

- Probability of light rainfall
- Max temp may be varying from 22-24°C, whereas, Min temp may vary from 16-17°C
- Sky will remain generally cloudy
- Max RH is likely to be 90-93 %, whereas, Min RH may var from 85-88 %
- Wind speed may likely vary from 2-3km/hr.
- Wind direction may blow from northwesterly to northerly and then southerly
- Weekly cumulative rainfall= 26 mm
- **Thunderstorm with lightning may occur on Saturday**

AGRO-METEOREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock


- Bunding at terrace should be done to reduce nutrient losses due to heavy rainfall
- Keep ready the field for paddy cultivation
- *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.
- Strategic supplementation of vitamins and mineral mixture should provide to livestock to improve the productive performance.
- Prove green grass to the livestock to feed as much as possible

Name of the crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<i>Agricultural and Horticultural crops:</i>			
Maize	Knee height stage	Army worm	<ul style="list-style-type: none"> ◆ 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. ◆ Foliar spray of neem based formulation @ 0.5% or 5 ml/lit. of water at weekly interval
			
Rice	Field preparation		<ul style="list-style-type: none"> ◆ Start initial ploughing
Ginger/ Turmeric	Sowing		<ul style="list-style-type: none"> ◆ Apply bio mulch @10 t/ha to cover the ridges and furrows of the field
Large cardamom	Planting		<ul style="list-style-type: none"> ◆ A 2 years old nursery suckers should be planted in the main field ◆ 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		<ul style="list-style-type: none"> ◆ Weeding and intercultural operation should be done
Tomato/Red cherry pepper/Brinjal	Vegetative	Blight	<ul style="list-style-type: none"> ◆ Plants should be keep weed free and avoid water stagnation ◆ Spraying of COC @2-3 ml/lit. at weekly interval
Sikkim Mandarin	Planting/fruiting		<ul style="list-style-type: none"> ◆ 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 Sciences and livestock management

Tibetan Sheep			<ul style="list-style-type: none"> ◆ Feeding of concentrate feed along with mineral mixture and salt. ◆ Hay feeding is recommended.
Yak			<ul style="list-style-type: none"> ◆ Feeding of concentrate feed along with mineral mixture and salt. ◆ Hay feeding is recommended. ◆ Trimming of hair is recommended.
Sheep and Goat			<ul style="list-style-type: none"> ◆ 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. ◆ Breeding of the sheep/goat should be done 24-30 hr after observation of heat. ◆ Feeding of concentrate feed along with jaggery, mineral mixture and salt. ◆ Periodic application of fly repellents and/or netting of dung pit are recommended.
Cattle			<ul style="list-style-type: none"> ◆ 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. ◆ Full hand milking should be practiced. ◆ 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 disease	<ul style="list-style-type: none"> 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. 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 ectoparasitocides viz., deltamethrin/cypermethrin @ 1% v/v in water.
Pig	All stages	Swine fever	<ul style="list-style-type: none"> 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
<i>Dr. R. K. Avasthe</i>	Joint Director	Soil Science
<i>Dr. Raghavendra Singh</i>	Senior scientist and Head(I/C)	Agronomy
<i>Dr. P. K. Pathak</i>	SMS	Animal science
<i>Dr. J.K. Singh</i>	SMS	Plant Breeding
<i>Dr. Manoj Kumar</i>	SMS	Agronomy
<i>Sh. Boniface Lepcha</i>	SMS	Horticulture
<i>Sh. Santanu Das</i>	SMS	Agril. Meteorology
<i>Miss Tirtha Kumari Chettri</i>	Metrological observer	Biochemistry