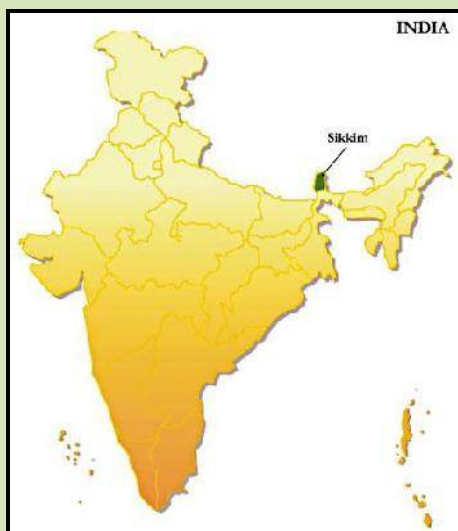




STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 11TH MARCH to 14TH MARCH'2016



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



ISSUED ON FRIDAY 11TH MARCH'2016

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

Mangan (PTO)				North Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	Light	No rain	Moderate	Moderate	Light
8/3/2016	012	23.4	11.2	Wind (Km/Hr) (Speed/ Dir)	2(WSW)	3(SW)	3(SW)	3(S)	3(SSW)
9/3/2016	014	25.2	10.5	Temperature (Min-Max)	12 - 25°C	11 - 24°C	11 - 23°C	11 - 22°C	10 - 23°C
10/3/2016	027	N/A	10.7	RH (Min- Max)	65 - 90%	70 - 92%	75 - 95%	75 - 95%	70 - 90%

Gangtok				East Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	No rain	No rain	Light	Moderate	Light
8/3/2016	029	18.5	09.8	Wind (Km/Hr) (Speed/ Dir)	2(W)	3(WSW)	3(W)	3(SE)	3(SSE)
9/3/2016	022	19.8	10.0	Temperature (Min-Max)	12 - 21°C	11 - 20°C	12 - 18°C	11 - 17°C	11 - 18°C
10/3/2016	000	20.1	10.8	RH (Min- Max)	65 - 88%	68 - 92%	70 - 94%	75 - 95%	70 - 94%

Namthang				South Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	No rain	No rain	No rain	Light	Light
8/3/2016	000	23.5	12.5	Wind (Km/Hr) (Speed/ Dir)	3(W)	3(WSW)	2(WSW)	3(SSE)	3(S)
9/3/2016	000	28.0	12.0	Temperature (Min-Max)	12 - 25°C	12 - 24°C	12 - 23°C	11 - 22°C	11 - 23°C
10/3/2016	000	25.5	13.0	RH (Min- Max)	60 - 85%	62 - 88%	70 - 90%	70 - 92%	60 - 85%

Gyalshing (AWS)				West Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	No rain	No rain	Moderate	Moderate	Very Light
8/3/2016	000	20.5	11.3	Wind (Km/Hr) (Speed/ Dir)	2(WSW)	3(WSW)	2(SW)	3(SSW)	3(WSW)
9/3/2016	000	22.6	10.4	Temperature (Min-Max)	12 - 23°C	12 - 21°C	12 - 20°C	11 - 19°C	10 - 20°C
10/3/2016	000	22.4	10.7	RH (Min- Max)	65 - 91%	70 - 92%	75 - 94%	75 - 95%	70 - 94%

Part II

AGRO-METEOREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- ❖ Spraying of plant protection biopesticides on bright sunny day for insect and disease management is recommended.
- ❖ *Jalkund* should be covered with thatch to prevent evaporation losses.
- ❖ Vermicompost pits should be covered with gunny bags / paddy straw/ dry forest litter to regulate the temperature.
- ❖ Avoid feeding of damp and foul smelling feed to all livestock and poultry.
- ❖ De-worming with Fenbendazole @ 10 mg / kg body weight.
- ❖ Protect animals from cold by providing protective cover/ house and light.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Maize	Land preparation		❖ Apply well decomposed FYM @ 2.5 t/ha + mixed compost 2.5 t/ha + 0.5 t/ha neem cake and mix properly with soil 7-10 days before sowing ❖ Apply dolomite @ 200 kg/ha in furrow before sowing
Buckwheat	Harvesting		❖ Harvesting should be done at physiological maturity stage.
Mustard/ Toria	Harvesting		❖ Harvesting should be done at physiological maturity stage.
Vegetable pea/ Field pea	Harvesting/ Picking		❖ Soil moisture should be maintained for good yield. ❖ If sources are available one irrigation is recommended. ❖ Cautious picking should be done to avoid plant damage.
Tomato	Nursery raising		❖ Prepare 4 inch raised bed of 1 m x 5 m size for nursery raising. ❖ Bed should be prepared to a fine tilth by mixing well decomposed FYM @ 2 kg/m² and vermicompost @ 500 g/m² incubated with 2% <i>Trichoderma viride</i> for management of soil borne diseases. ❖ Seed should be sown in line 4-5 cm apart at shallow depth 1-2 cm.

			◆ Light irrigation should be provided immediately after seed sowing with rose can. ◆ Proper moisture should be maintained in nursery beds for better germination.
Large cardamom	Post harvest crop management		◆ Regular watering should be done at 15 – 30 days intervals. ◆ Regular monitoring for pest and disease incidence. ◆ Shade management with the proper lopping of trees.
Ginger	Field preparation		◆ Identify healthy plants for seed rhizomes. ◆ Selected rhizomes for planting material should be kept in partial shade for better sprouting. ◆ Forest litter should be collected well in advance as mulching material. ◆ Apply well decomposed FYM @ 20-25 t/ha + 1.0 t/ha neem cake and mix properly with soil 7-10 days before sowing. ◆ Broadcast dolomite @ 2 t/ha before sowing and mix properly with soil.
Sikkim Mandarin	Flowering/ Fruit set		◆ Basin maintenance and manuring 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%.
Kiwi fruit	Pruning /Training		◆ Basin maintenance and manuring with FYM @ 30-35 kg/tree should be done. Avoid application of FYM close to the trunk. ◆ Regular watering should be done till sprouting
Animal Sciences			
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.
Cattle, Sheep			◆ Farmers are advised to look for heat sign especially during early morning

and Goat			or late evening and ensure breeding of the dairy cattle after 12 hr of observation of heat. ◆ Breeding of the sheep/goat should be done after 24-30 hr of 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			◆ Balanced feeding of dairy animals and allow calf suckling immediately after parturition. ◆ 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	◆ 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 5th day and at 30th day of age. ◆ Calcium/shell grit and multi vitamin supplementation is strongly recommended to optimize egg production. ◆ Spraying of ectoparasiticides viz., 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 indigeneous pigs. ◆ Swine fever vaccine at the age of 8-10 week is recommended. ◆ Critical heat detection in early morning and late evening is recommended. ◆ Feed 5-10% green fodder of their diet.
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