



STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 28TH FEBRUARY TO 02ND MARCH'2017



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



ISSUED ON TUESDAY 28TH FEBRUARY'2017

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 Gyalshing
- 4) South District with HQ at Namchi

Mangan (PTO)				North Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
24-2-2017	000	17.4	10.4	Rainfall	No rain	No rain	Very Light	Light	Light
25-2-2017	000	15.0	09.2	Wind (Speed/ Dir)	3Km/Hr (WSW)	2Km/Hr (W)	3Km/Hr (SSW)	3Km/Hr (SSW)	2Km/Hr (SSW)
26-2-2017	000	12.3	08.3	Temperature (Min-Max)	7 - 17°C	7 - 18°C	8 - 17°C	9 - 15°C	8 - 14°C
27-2-2017	002	14.2	06.2	RH (Min-Max)	57 - 84%	56 - 85%	58 - 88%	58 - 90%	59 - 91%

Gangtok				East Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
24-2-2017	000	12.5	09.5	Rainfall	No rain	No rain	Very Light	Light	Very Light
25-2-2017	000	09.1	07.8	Wind (Speed/ Dir)	2Km/Hr (WNW)	3Km/Hr (NW)	3Km/Hr (SSE)	2Km/Hr (SSE)	2Km/Hr (SSE)
26-2-2017	TRACE	09.8	08.2	Temperature (Min-Max)	8 - 14°C	8 - 15°C	9 - 14°C	9 - 13°C	8 - 12°C
27-2-2017	014	09.9	07.6	RH (Min-Max)	64 - 86%	65 - 88%	65 - 89%	68 - 92%	69 - 93%

Namthang				South Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
24-2-2017	000	18.5	11.0	Rainfall	No rain	No rain	No rain	Very Light	No rain
25-2-2017	000	15.0	09.0	Wind (Speed/ Dir)	2Km/Hr (W)	3Km/Hr (WNW)	3Km/Hr (S)	2Km/Hr (S)	3Km/Hr (S)
26-2-2017	000	17.5	09.0	Temperature (Min-Max)	7 - 19°C	7 - 20°C	8 - 20°C	9 - 18°C	8 - 17°C
27-2-2017	000	17.5	08.0	RH (Min-Max)	64 - 85%	66 - 87%	68 - 89%	69 - 93%	69 - 92%


Gyalshing (AWS)				West Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
24-2-2017	N/A	00.0	00.0	Rainfall	No rain	No rain	Very Light	Light	Very Light
25-2-2017	N/A	00.4	00.0	Wind (Speed/ Dir)	2Km/Hr (W)	3Km/Hr (W)	2Km/Hr (WSW)	2Km/Hr (WSW)	3Km/Hr (WSW)
26-2-2017	N/A	00.0	00.0	Temperature (Min-Max)	8 - 15°C	8 - 16°C	9 - 15°C	10 - 14°C	9 - 13°C
27-2-2017	N/A	N/A	00.0	RH (Min-Max)	60 - 85%	63 - 84%	64 - 90%	68 - 92%	69 - 91%



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		<ul style="list-style-type: none">◆ 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	Grain maturity		<ul style="list-style-type: none">◆ Regular monitoring of crop.
Mustard/ Torla	Harvesting		<ul style="list-style-type: none">◆ Harvesting should be done at physiological maturity stage.
Garden pea	Fruiting/Picking		<ul style="list-style-type: none">◆ Soil moisture should be maintained for good growth and yield.◆ Cautious picking should be done to avoid plant damage.

Tomato	Fruiting / Harvesting	Late Blight 	<ul style="list-style-type: none"> ◆ Removal of infected leaves/ plant and drenching/ spray with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1%. ◆ Harvesting of mature green tomato should be done for distant market and pinkish/ reddish for local market.
Large cardamom	Post harvest crop management		<ul style="list-style-type: none"> ◆ 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		<ul style="list-style-type: none"> ◆ 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	Training and Pruning		<ul style="list-style-type: none"> ◆ Diseased and senile branches should be removed. ◆ Remove all the fruits from trees and the fruits dropped in the basin of tree and the orchard. ◆ Basin maintenance and manuring with FYM @ 30 -35 kg/tree should be done. Avoid application of FYM close to the trunk
Kiwi fruit	Pruning and Training		<ul style="list-style-type: none"> ◆ Pruning of unwanted vegetative growth should be done. ◆ Manuring with FYM @ 10-15 kg/plant should be done.
Animal Sciences			
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.
Cattle, 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 animal after 12 hr of 1st heat observe. ◆ 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. ◆ 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 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	<ul style="list-style-type: none"> ◆ Keep floor dry to avoid skin diseases. ◆ 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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