



STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 21ST FEBRUARY TO 23RD FEBRUARY'2017



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



ISSUED ON TUESDAY 21ST 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	Partly Cloudy	Partly Cloudy	Mainly Clear	Partly Cloudy
17-2-2017	000	20.5	09.5	Rainfall	Light	No rain	No rain	No rain	No rain
18-2-2017	000	21.4	09.6	Wind (Speed/ Dir)	2Km/Hr (WSW)	2Km/Hr (WSW)	3Km/Hr (W)	3Km/Hr (WNW)	3Km/Hr (WSW)
19-2-2017	000	20.6	10.3	Temperature (Min-Max)	9 - 18°C	8 - 18°C	8 - 19°C	9 - 19°C	10 - 18°C
20-2-2017	000	16.2	09.7	RH (Min-Max)	65 - 90%	60 - 85%	58 - 82%	55 - 80%	58 - 85%

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	Partly Cloudy	Partly Cloudy	Mainly Clear	Partly Cloudy
17-2-2017	000	18.3	08.9	Rainfall	Very Light	No rain	No rain	No rain	No rain
18-2-2017	000	18.9	10.0	Wind (Speed/ Dir)	2Km/Hr (NW)	2Km/Hr (NW)	2Km/Hr (NW)	3Km/Hr (WSW)	3Km/Hr (WSW)
19-2-2017	000	18.0	10.3	Temperature (Min-Max)	10 - 17°C	9 - 17°C	8 - 18°C	8 - 18°C	9 - 17°C
20-2-2017	001	13.3	10.9	RH (Min-Max)	60 - 85%	58 - 82%	55 - 78%	58 - 78%	61 - 80%



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	Partly Cloudy	Partly Cloudy	Mainly Clear	Partly Cloudy
17-2-2017	000	21.5	10.5	Rainfall	No rain	No rain	No rain	No rain	No rain
18-2-2017	000	22.0	10.0	Wind (Speed/ Dir)	2Km/Hr (WNW)	2Km/Hr (WNW)	3Km/Hr (WNW)	3Km/Hr (W)	3Km/Hr (WSW)
19-2-2017	000	22.0	11.5	Temperature (Min-Max)	10 - 20°C	10 - 20°C	9 - 21°C	9 - 21°C	10 - 20°C
20-2-2017	000	20.5	13.5	RH (Min-Max)	58 - 78%	55 - 75%	52 - 72%	52 - 72%	55 - 75%


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	Partly Cloudy	Partly Cloudy	Partly Cloudy	Mainly Clear	Partly Cloudy
17-2-2017	N/A	00.0	N/A	Rainfall	No rain	No rain	No rain	No rain	No rain
18-2-2017	N/A	00.0	N/A	Wind (Speed/ Dir)	3Km/Hr (W)	2Km/Hr (WNW)	2Km/Hr (WNW)	3Km/Hr (W)	3Km/Hr (WNW)
19-2-2017	N/A	00.0	N/A	Temperature (Min-Max)	10 - 17°C	9 - 18°C	8 - 19°C	8 - 19°C	9 - 18°C
20-2-2017	N/A	00.0	N/A	RH (Min-Max)	60 - 82%	58 - 80%	55 - 75%	55 - 75%	59 - 78%

Part II

AGRO-METEOREOLOGICAL ADVISORIES

- Spraying of plant protection biopesticides in the evening.
- Utilization of harvested water stored in various structures like Jalkund is recommended through drip and sprinkler irrigation system for cultivation of Rabi crops.
- Jalkund should be covered with thatch to prevent evaporation losses.
- Incorporate organic sources of nutrients (FYM, Vermicompost, Poultry manure, Pig manure, Goat/ Sheep manure, Mixed compost, Neem cake etc.) in to the soil for cultivation of all Rabi crops.
- 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			
Buckwheat	Grain maturity		◆ Regular monitoring of crop.
Mustard/ Torla	Flowering/pod filling	Aphid	◆ For management of aphid, spray petroleum agro spray @ 10 ml/l or neem oil (1500ppm) @ 4ml/l.
Garden pea	Fruiting/Picking		◆ Soil moisture should be maintained for good growth and yield. ◆ Cautious picking should be done to avoid plant damage.
Tomato	Fruiting / Harvesting	Late Blight 	◆ 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.

Winter vegetables (Cole crops)	Vegetative		<ul style="list-style-type: none"> ◆ Regular monitoring for pest and disease incidence and collection and destruction of egg, larva, pupa and adult. ◆ Application of Neem cake/ mustard oil cake @ 50kg/1000sqm. ◆ Drenching of plant with mixture of water, cow urine and Neem oil 8 litre, 2 litre and 50 ml, respectively at weekly interval to avoid red ant and cut worms. ◆ Earthing up for early transplanted crop is recommended.
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	Storage		<ul style="list-style-type: none"> ◆ Identify healthy plants for seed rhizomes. ◆ Care should be taken during harvesting to avoid the mechanical injury in the rhizome. ◆ 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.
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.

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.

			<ul style="list-style-type: none"> ◆ 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.