



STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 07TH FEBRUARY TO 09TH FEBRUARY'2017



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



ISSUED ON TUESDAY 07TH 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	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy
3/2/2017	000	18.4	07.3	Rainfall	No rain	No rain	No rain	No rain	No rain
4/2/2017	000	18.6	07.5	Wind (Speed/ Dir)	2Km/Hr (W)	3Km/Hr (WSW)	2Km/Hr (WSW)	2Km/Hr (SW)	3Km/Hr (SSW)
5/2/2017	000	19.2	08.4	Temperature (Min-Max)	9 - 19°C	8 - 19°C	8 - 20°C	9 - 19°C	9 - 19°C
6/2/2017	000	20.1	09.3	RH (Min-Max)	55 - 86%	54 - 87%	53 - 84%	54 - 85%	52 - 84%

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	Partly Cloudy	Partly Cloudy	Partly Cloudy	Partly Cloudy	Mainly Clear
3/2/2017	000	16.7	07.4	Rainfall	No rain	No rain	No rain	No rain	No rain
4/2/2017	000	19.5	08.5	Wind (Speed/ Dir)	3Km/Hr (NW)	2Km/Hr (WNW)	3Km/Hr (NW)	3Km/Hr (SSW)	2Km/Hr (SE)
5/2/2017	000	19.4	10.2	Temperature (Min-Max)	8 - 17°C	8 - 18°C	9 - 18°C	8 - 17°C	8 - 17°C
6/2/2017	000	16.4	08.4	RH (Min-Max)	60 - 87%	61 - 85%	62 - 86%	63 - 85%	62 - 86%

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	Partly Cloudy	Partly Cloudy	Generally Cloudy	Partly Cloudy	Mainly Clear
3/2/2017	000	18.5	07.5	Rainfall	No rain	No rain	No rain	No rain	No rain
4/2/2017	000	20.5	08.0	Wind (Speed/ Dir)	2Km/Hr (WNW)	2Km/Hr (W)	3Km/Hr (WNW)	2Km/Hr (SSW)	2Km/Hr (S)
5/2/2017	000	19.5	09.0	Temperature (Min-Max)	9 - 19°C	9 - 19°C	10 - 19°C	10 - 20°C	9 - 19°C
6/2/2017	000	20.0	09.0	RH (Min-Max)	54 - 82%	55 - 84%	56 - 85%	54 - 84%	55 - 86%


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	Mainly Clear
3/2/2017	N/A	N/A	N/A	Rainfall	No rain	No rain	No rain	No rain	No rain
4/2/2017	N/A	N/A	N/A	Wind (Speed/ Dir)	2Km/Hr (W)	2Km/Hr (W)	3Km/Hr (W)	2Km/Hr (WSW)	3Km/Hr (SW)
5/2/2017	N/A	N/A	N/A	Temperature (Min-Max)	8 - 18°C	9 - 19°C	9 - 18°C	8 - 18°C	8 - 18°C
6/2/2017	N/A	N/A	N/A	RH (Min-Max)	57 - 82%	58 - 81%	57 - 82%	56 - 84%	55 - 83%



Part II

AGRO-METEOREOLOGICAL ADVISORIES

General Advisories for all the crops

- Spraying of plant protection biopesticides in the evening.
- Mulching should be done through locally available biomass to conserve soil moisture for rabi crops.
- Utilization of harvested water stored in various structures like Jalkund is recommended through drip and sprinkler irrigation system for cultivation of Rabi crops.
- 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	Flowering / grain filling		◆ Regular monitoring of crop.
Mustard/ Toria	Flowering	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. ◆ If sources are available one irrigation is recommended. ◆ 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.
Winter vegetables (Cole crops)	Vegetative		<ul style="list-style-type: none"> ◆ Regular watering and weeding in main field is recommended. ◆ 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	Harvesting Seed		<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.
Sikkim Mandarin	Harvesting/Storage		<ul style="list-style-type: none"> ◆ Collection of infested dropped fruit and buried in to soil. ◆ Harvesting should be done along with twig with two leaves. ◆ Diseased and senile branches should be removed. ◆ On tree storage should be done for prolonged harvesting of fruits. ◆ Manuring with FYM @ 10-15 kg/plant should be done.
Kiwi fruit	Dormant		<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

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