



STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 24TH JANUARY TO 26TH JANUARY'2017



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



ISSUED ON TUESDAY 24TH JANUARY'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	Mainly Clear	Mainly Clear	Generally Cloudy	Generally Cloudy	Generally Cloudy
20-1-2017	000	15.6	08.3	Rainfall	No rain	No rain	No rain	Light	Very Light
21-1-2017	000	17.1	08.4	Wind (Speed/ Dir)	2Km/Hr (SW)	3Km/Hr (WSW)	3Km/Hr (S)	3Km/Hr (S)	3Km/Hr (SSW)
22-1-2017	000	17.5	08.3	Temperature (Min-Max)	9 - 18°C	9 - 17°C	8 - 15°C	7 - 13°C	6 - 13°C
23-1-2017	000	17.4	08.6	RH (Min-Max)	50 - 74%	48 - 75%	55 - 76%	65 - 85%	60 - 80%

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	Mainly Clear	Mainly Clear	Generally Cloudy	Generally Cloudy	Generally Cloudy
20-1-2017	000	15.3	05.9	Rainfall	No rain	No rain	No rain	Very Light	Very Light
21-1-2017	000	15.8	05.9	Wind (Speed/ Dir)	2Km/Hr (WSW)	2Km/Hr (WNW)	3Km/Hr (SE)	3Km/Hr (SSE)	3Km/Hr (SE)
22-1-2017	000	17.2	07.6	Temperature (Min-Max)	7 - 17°C	7 - 16°C	6 - 14°C	5 - 13°C	4 - 12°C
23-1-2017	000	16.4	08.0	RH (Min-Max)	48 - 72%	47 - 71%	49 - 74%	62 - 88%	60 - 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	Mainly Clear	Mainly Clear	Partly Cloudy	Generally Cloudy	Generally Cloudy
20-1-2017	000	16.5	07.0	Rainfall	No rain	No rain	No rain	Light	No rain
21-1-2017	000	18.0	06.5	Wind (Speed/ Dir)	2Km/Hr (WSW)	2Km/Hr (W)	2Km/Hr (S)	2Km/Hr (S)	3Km/Hr (SSE)
22-1-2017	000	19.0	07.5	Temperature (Min-Max)	8 - 19°C	8 - 19°C	7 - 17°C	6 - 15°C	5 - 14°C
23-1-2017	000	18.5	07.5	RH (Min-Max)	46 - 74%	47 - 72%	50 - 74%	60 - 88%	58 - 82%

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	Mainly Clear	Mainly Clear	Generally Cloudy	Generally Cloudy	Partly Cloudy
20-1-2017	N/A	N/A	N/A	Rainfall	No rain	No rain	No rain	Light	No rain
21-1-2017	N/A	N/A	N/A	Wind (Speed/ Dir)	2Km/Hr (SW)	2Km/Hr (WSW)	3Km/Hr (WSW)	3Km/Hr (WSW)	3Km/Hr (SSE)
22-1-2017	N/A	N/A	N/A	Temperature (Min-Max)	8 - 17°C	8 - 16°C	7 - 14°C	5 - 13°C	4 - 13°C
23-1-2017	N/A	N/A	N/A	RH (Min-Max)	46 - 70%	47 - 71%	49 - 74%	60 - 85%	60 - 79%


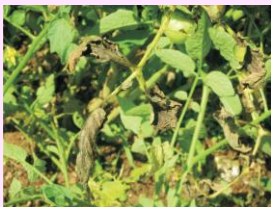
Part II


AGRO-METEOREOLOGICAL ADVISORIES

General Advisories for all the crops

- Conservation of soil moisture through locally available biomass mulching in all the crops.
- Preventive spray and soil drenching with copper oxychloride @2.5 g/l of water at weekly intervals.
- Spraying of plant protection biopesticides in the evening. Sowing/transplanting of Rabi vegetable crops like cole crops, pea, leafy vegetable etc. and fodder crops (oat/berseem).
- 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.
- 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/ Torina	Thinning/ weeding/Floweri ng	Aphid	◆ Thinning (removal of extra plants) and weeding should be done 10-15 days after sowing. ◆ One irrigation should be provided at the time of pre-flowering. ◆ For management of aphid, spray petroleum agro spray @ 10 ml/l or neem oil (1500ppm) @ 4ml/l.

Garden pea	Flowering/Fruiting/Picking		<ul style="list-style-type: none"> ◆ 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	Fruit setting/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.
Potato	Vegetative	Late blight of potato	<ul style="list-style-type: none"> ◆ Removal of diseased leaves and branches and weekly spraying of copper oxychloride @ 0.25% for the management of late blight disease
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

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