

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 20TH JANUARY TO 23TH JANUARY'2017

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





ISSUED ON FRIDAY 20TH 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 (DTO)			North Sikkim Forecast							
	Mangan (PTO)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall Max. Temp	Max. Temp	Min. Temp (°C)	Sky Condition	Mainly Clear	Mainly Clear	Generally Cloudy	Generally Cloudy	Generally Cloudy	
Date	(mm)	(°C)		Rainfall	No rain	No rain	No rain	No rain	No rain	
17-1-2017	000	14.3	06.5	Wind (Km/Hr) (Speed/ Dir)	3(WSW)	2(WSW)	3(SW)	2(WSW)	3(W)	
18-1-2017	000	15.3	07.4	Temperature (Min-Max)	7 - 16°C	7 - 16°C	6 - 15°C	6 - 15°C	6 - 16°C	
19-1-2017	000	15.2	07.6	RH (Min- Max)	52 - 80%	50 - 79%	54 - 82%	56 - 80%	52 - 78%	

Congtoly			East Sikkim Forecast							
	Gangtok			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall Max. Temp	Max. Temp	Min. Temp (°C)	Sky Condition	Mainly Clear	Mainly Clear	Generally Cloudy	Generally Cloudy	Generally Cloudy	
Date	(mm)	(°C)		Rainfall	No rain	No rain	No rain	No rain	No rain	
17-1-2017	000	12.9	04.1	Wind (Km/Hr) (Speed/ Dir)	2(W)	2(WNW)	3(W)	3(WNW)	3(WNW)	
18-1-2017	000	13.8	04.8	Temperature (Min-Max)	6 - 15°C	6 - 15°C	5 - 14°C	5 - 14°C	6 - 14°C	
19-1-2017	000	15.3	05.6	RH (Min- Max)	48 - 78%	46 - 77%	50 - 79%	51 - 80%	48 - 78%	

Namthana		South Sikkim Forecast							
	Namthang			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition		Partly Cloudy	Generally Cloudy		
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain
17-1-2017	000	15.0	05.0	Wind (Km/Hr) (Speed/ Dir)	2(W)	2(W)	3(WSW)	3(W)	3(W)
18-1-2017	000	16.0	05.5	Temperature (Min-Max)	6 - 15°C	6 - 15°C	5 - 14°C	5 - 14°C	6 - 15°C
19-1-2017	000	15.5	06.0	RH (Min- Max)	49 - 78%	50 - 80%	51 - 81%	52 - 82%	48 - 80%

Cyclobing (AMC)			West Sikkim Forecast							
	Gyalshing (AWS)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall Max. Temp	Max. Temp	Min. Temp	Sky Condition	Mainly Clear	Mainly Clear	Partly Cloudy	Generally Cloudy	Generally Cloudy	
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain	
17-1-2017	N/A	N/A	N/A	Wind (Km/Hr) (Speed/ Dir)	2(WSW)	2(WSW)	3(SSW)	3(WSW)	3(W)	
18-1-2017	N/A	N/A	N/A	Temperature (Min-Max)	6 - 15°C	6 - 15°C	5 - 14°C	5 - 14°C	6 - 15°C	
19-1-2017	N/A	N/A	N/A	RH (Min- Max)	50 - 76%	48 - 78%	50 - 79%	51 - 78%	48 - 77%	

Part II

AGRO-METEREOLOGICAL 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/ Toria	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/Fruiti ng/Picking	abuddi 1	 	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	 	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	•	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		**	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			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		*	Identify healthy plants for seed rhizomes. Care should be taken during harvesting to avoid the mechanical injury in the rhizome.

Sikkim Mandarin Kiwi fruit	Harvesting/Stora ge Dormant		***	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. Pruning of unwanted vegetative growth should be done.
			*	growth should be done. Manuring with FYM @ 10-15 kg/plant should be done.
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 and Goat			*	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 1 st 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				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		Cocciodiosis, 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.
			\oint\oint\oint\oint\oint\oint\oint\oint	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
			\limits	Maintenance of brooder temperature for chicks with the help of electrical
				bulbs for initial one month. Ranikhet vaccination at 5 th day and at 30 th day of age.
				Calcium/shell grit and multi vitamin supplementation is strongly recommended to optimize egg
			*	production. Spraying of ectoparasiticides <i>viz.</i> , deltamethrin/cypermethrin @ 1% v/v in water.
Pig	All stages	Swine fever	•	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.