

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



PERIOD: 16TH FEBRUARY to 18TH FEBRUARY'2016

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





ISSUED ON TUESDAY 16TH FEBRUARY'2016

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 Gyalsing
- 4) South District with HQ at Namchi

Mangan (PTO)				North Sikkim Forecast							
Date	Rainfall	Max. Temp	Min. Temp (°C)	Day → Parameter↓	Day 1	Day 2 Day 3		Day 4	Day 5		
Date	(mm)	(°C)		Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
12-2-2016	005	20.1	10.1	Rainfall	No rain						
13-2-2016	000	20.0	10.2	Wind (Speed/ Dir)	4Km/Hr (WSW)	3Km/Hr (W)	2Km/Hr (WNW)	4Km/Hr (WSW)	4Km/Hr (SW)		
14-2-2016	000	20.2	08.2	Temperature (Min-Max)	10 - 20°C	10 - 20°C	10 - 20°C	10 - 19°C	10 - 18°C		
15-2-2016	000	20.1	10.1	RH (Min-Max)	55 - 82%	57 - 84%	60 - 88%	65 - 90%	68 - 90%		

Gangtok			East Sikkim Forecast								
Data	Rainfall M	Max. Temp		Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)	(°C)		Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
12-2-2016	000	14.7	05.6	Rainfall	No rain						
13-2-2016	000	14.3	07.0	Wind (Speed/ Dir)	3Km/Hr (NW)	2Km/Hr (WNW)	1Km/Hr (WNW)	3Km/Hr (W)	3Km/Hr (WNW)		
14-2-2016	000	15.3	06.5	Temperature (Min-Max)	8 - 15°C	8 - 14°C	8 - 14°C	8 - 14°C	8 - 13°C		
15-2-2016	000	15.6	07.3	RH (Min-Max)	55 - 79%	60 - 80%	65 - 88%	65 - 88%	62 - 90%		

Namthang			South Sikkim Forecast							
Rainfall	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	(mm) (°C)	(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
12-2-2016	000	16.5	07.0	Rainfall	No rain	No rain	No rain	No rain	No rain	
13-2-2016	000	24.0	09.0	Wind (Speed/ Dir)	3Km/Hr (WNW)	2Km/Hr (WNW)	1Km/Hr (WNW)	3Km/Hr (W)	4Km/Hr (W)	
14-2-2016	000	19.0	09.5	Temperature (Min-Max)	9 - 19°C	9 - 19°C	9 - 19°C	9 - 18°C	9 - 18°C	
15-2-2016	000	18.5	08.6	RH (Min-Max)	50 - 78%	52 - 80%	60 - 87%	60 - 88%	65 - 90%	

Gyalshing (AWS)			West Sikkim Forecast							
Data	Rainfall Max.	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	(mm)	(°C)		Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
12-2-2016	000	16.7	05.5	Rainfall	No rain					
13-2-2016	000	16.1	07.1	Wind (Speed/ Dir)	3Km/Hr (W)	2Km/Hr (W)	1Km/Hr (WNW)	4Km/Hr (WSW)	4Km/Hr (WSW)	
14-2-2016	000	16.5	06.7	Temperature (Min-Max)	9 - 17°C	9 - 17°C	9 - 17°C	9 - 16°C	8 - 15°C	
15-2-2016	000	17.6	08.5	RH (Min-Max)	56 - 75%	58 - 78%	65 - 85%	65 - 90%	70 - 92%	

Part II

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- Spraying of plant protection biopesticides on bright sunny day for insect and disease management is recommended.
- Mulching should be done through locally available biomass to conserve soil moisture for rabi crops.
- 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			Agro-Met Advisories
Crops			
Buckwheat	Flowering /grain filling		Weeding should be done up to 45 days after sowing.
Mustard/ Toria	Flowering/pod filling	Aphid	For management of aphid, spray petroleum agro spray @ 10 ml/l or neem oil (1500ppm) @ 4ml/l.
Vegetable pea/ Field pea	Flowering/Fruiti ng/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/ Nursery raising	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. Prepare 4 inch raised bed of 1 m x 5

			m size for nursery raising. Bed should be prepared to a fine tilth by mixing well decomposed FYM @ 2 kg/m² and vermicompost @ 500 g/m² incubated with 2% <i>Trichoderma viride</i> for management of soil borne diseases. Seed should be sown in line 4-5 cm apart at shallow depth 1-2 cm. Light irrigation should be provided immediately after seed sowing with rose can. Proper moisture should be maintained in nursery beds for better germination.
Winter vegetables (Cole crops)	Harvesting/ Vegetative	 	Regular watering and weeding in main field is recommended. Earthing up and top dressing with vermicompost 40-50 g/plant should be done. Regular monitoring for pest and disease incidence and collection and destruction of egg, larva, pupa and adult.
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	Storage	 	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/ Pruning	 	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		Diseased and senile branches should
	/Training		be removed.
			Pruning should be done retaining 8-10
			buds per branch for enhancing new
			flush and flowering.
			Pruned healthy hard wood of pencil
			thickness size having 4-5 buds can be
			used as cutting for propagation.
			Basin maintenance and manuring with
			FYM @ 30-35 kg/tree should be done.
			Avoid application of FYM close to the
			trunk.
Animal Sciences			
Tibetan Sheep		\limits	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			Farmers are advised to look for heat
and Goat			sign especially during early morning
			or late evening and ensure breeding
			of the dairy cattle after 12 hr of
			observation of heat.
			Breeding of the sheep/goat should be
			done after 24-30 hr of observation of
			heat.
			with jaggery, mineral mixture and
			salt.
			Periodic application of fly repellents
			and/or netting of dung pit are
G wl		•	recommended.
Cattle			e J
			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,		16 hrs of light (natural and electrical)
		Ranikhet disease		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 cocciodiosis.
				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 viz.,
				deltamethrin/cypermethrin @ 1% v/v
				in water.
Pig	All stages	Swine fever		Keep floor dry to avoid skin diseases.
				Weaning is recommended at the age
				of 8 weeks for crosbreds and 10
				weeks for indigeneous pigs.
				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.