

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



PERIOD: 12TH FEBRUARY to 15TH FEBRUARY'2016

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





ISSUED ON FRIDAY 12TH 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							
			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Partly Cloudy	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain	
9-2-2016	013	20.2	09.1	Wind (Km/Hr) (Speed/ Dir)	4(W)	4(W)	4(W)	3(WSW)	3(WSW)	
10-2-2016	000	18.1	09.3	Temperature (Min-Max)	9 - 19°C	9 - 19°C	9 - 19°C	9 - 20°C	9 - 19°C	
11-2-2016	000	18.2	09.2	RH (Min- Max)	50 - 82%	55 - 85%	55 - 82%	50 - 80%	55 - 85%	

Constal			East Sikkim Forecast							
	Gangtok			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Partly Cloudy	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain	
9-2-2016	007	13.3	06.4	Wind (Km/Hr) (Speed/ Dir)	3(NW)	4(NW)	3(NW)	2(NW)	2(NW)	
10-2-2016	000	12.7	07.5	Temperature (Min-Max)	6 - 14°C	6 - 13°C	6 - 14°C	7 - 14°C	7 - 13°C	
11-2-2016	001	14.4	07.7	RH (Min- Max)	55 - 80%	50 - 82%	55 - 84%	55 - 80%	62 - 85%	

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	Partly Cloudy	Partly Cloudy	Partly Cloudy	Generally Cloudy	
Date	(mm)	(°C)	(°C)	Rainfall	No rain					
9-2-2016	000	17.0	08.0	Wind (Km/Hr) (Speed/ Dir)	4(WNW)	4(WNW)	3(WNW)	3(WNW)	2(WNW)	
10-2-2016	000	19.0	07.5	Temperature (Min-Max)	8 - 19°C	8 - 19°C	8 - 20°C	8 - 20°C	8 - 19°C	
11-2-2016	000	21.5	10.0	RH (Min- Max)	48 - 79%	52 - 82%	50 - 82%	55 - 80%	60 - 85%	

Cyclobing (AMC)			West Sikkim Forecast							
	Gyalshing (AWS)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Partly Cloudy	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain	
9-2-2016	005	15.5	05.3	Wind (Km/Hr) (Speed/ Dir)	3(WSW)	3(W)	3(W)	2(W)	2(W)	
10-2-2016	000	16.2	08.5	Temperature (Min-Max)	6 - 17°C	7 - 18°C	7 - 18°C	7 - 17°C	7 - 17°C	
11-2-2016	000	N/A	08.4	RH (Min- Max)	50 - 82%	55 - 80%	50 - 82%	55 - 82%	60 - 87%	

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.

Flowering /grain filling		Weeding should be done up to 45 days after sowing.
Flowering/pod filling	Aphid	For management of aphid, spray petroleum agro spray @ 10 ml/l or neem oil (1500ppm) @ 4ml/l.
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.
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
f F F F n	Flowering/pod filling Flowering/Fruiti g/Picking Fruiting/ Nursery	Flowering/pod illing Flowering/Fruiti ng/Picking Fruiting/ Nursery Late Blight

			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 /Training	 Diseased and senile branches should be removed. Pruning should be done retaining 8-16 buds per branch for enhancing new flush and flowering. Pruned healthy hard wood of pencion 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		 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 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. 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		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 <i>viz.</i> , 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.