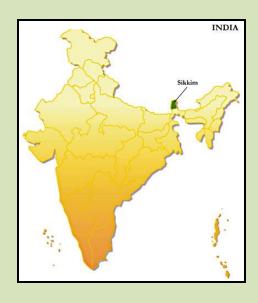


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 19TH FEBRUARY to 22ND FEBRUARY'2016

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





ISSUED ON FRIDAY 19TH 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

Mongon (DTO)			North Sikkim Forecast						
	Mangan (PTO)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	Very Light	Light	No rain
16-2-2016	000	20.2	09.4	Wind (Km/Hr) (Speed/ Dir)	3(WSW)	4(WSW)	3(SSW)	3(SSW)	2(S)
17-2-2016	000	24.1	09.2	Temperature (Min-Max)	10 - 22°C	10 - 22°C	10 - 20°C	10 - 19°C	10 - 19°C
18-2-2016	000	24.3	09.4	RH (Min- Max)	62 - 85%	65 - 88%	70 - 90%	70 - 90%	60 - 85%

Congtoly			East Sikkim Forecast						
	Gangtok			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	Very Light	Very Light	No rain
16-2-2016	000	15.6	08.4	Wind (Km/Hr) (Speed/ Dir)	3(WNW)	3(WNW)	2(SSE)	2(S)	2(ESE)
17-2-2016	000	17.2	08.2	Temperature (Min-Max)	6 - 15°C	7 - 15°C	6 - 14°C	5 - 14°C	4 - 15°C
18-2-2016	000	16.4	09.5	RH (Min- Max)	65 - 90%	70 - 90%	75 - 93%	75 - 92%	65 - 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	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	Very Light	No rain	No rain
16-2-2016	000	19.0	14.0	Wind (Km/Hr) (Speed/ Dir)	3(W)	3(W)	2(S)	2(SSW)	2(SE)
17-2-2016	000	20.0	10.0	Temperature (Min-Max)	12 - 19°C	11 - 18°C	11 - 17°C	11 - 17°C	10 - 19°C
18-2-2016	000	N/A	12.5	RH (Min- Max)	55 - 82%	61 - 85%	65 - 88%	63 - 88%	52 - 80%

Cyclobing (AMC)			West Sikkim Forecast						
	Gyalshing (AWS)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	Max. Temp M	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Date	(mm)	(°C)		Rainfall	No rain	No rain	Very Light	Very Light	No rain
16-2-2016	000	17.9	09.0	Wind (Km/Hr) (Speed/ Dir)	3(W)	4(W)	3(WSW)	2(WSW)	2(SE)
17-2-2016	000	19.6	08.4	Temperature (Min-Max)	10 - 18°C	9 - 17°C	9 - 16°C	9 - 16°C	8 - 17°C
18-2-2016	000	18.9	10.7	RH (Min- Max)	60 - 86%	62 - 90%	70 - 92%	68 - 92%	60 - 85%

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	Stage	Pest/ Disease	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	Wast 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	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% Trichoderma viride 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 8-10 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				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,	*	16 hrs of light (natural and electrical) should be provided to adult birds for

		Ranikhet disease		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.