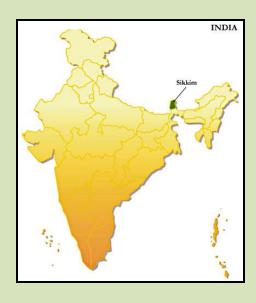


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 09TH FEBRUARY to 11TH FEBRUARY'2016

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





ISSUED ON TUESDAY 09TH 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								
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	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy				
5/2/2016	000	23.3	09.4	Rainfall	Very Light	No rain	No rain	No rain	No rain				
6/2/2016	000	20.1	09.5	Wind (Speed/ Dir)	1Km/Hr (SW)	3Km/Hr (SW)	4Km/Hr (WSW)	4Km/Hr (SSW)	4Km/Hr (SSW)				
7/2/2016	000	23.1	08.3	Temperature (Min-Max)	9 - 19°C	9 - 18°C	9 - 19°C	9 - 18°C	9 - 17°C				
8/2/2016	000	15.2	10.2	RH (Min-Max)	55 - 79%	50 - 75%	60 - 85%	65 - 90%	60 - 85%				

	Gangtok				East Sikkim Forecast								
Rainfall	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	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy				
5/2/2016	000	15.3	06.5	Rainfall	Very Light	No rain	No rain	No rain	No rain				
6/2/2016	000	14.0	08.4	Wind (Speed/ Dir)	2Km/Hr (WSW)	3Km/Hr (WNW)	3Km/Hr (NW)	3Km/Hr (SSE)	3Km/Hr (SSE)				
7/2/2016	000	17.3	08.8	Temperature (Min-Max)	7 - 14°C	6 - 13°C	6 - 13°C	7 - 12°C	6 - 12°C				
8/2/2016	000	12.2	09.2	RH (Min-Max)	60 - 82%	58 - 80%	65 - 85%	70 - 90%	70 - 88%				

	Namthang				South Sikkim Forecast								
Rainfa	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5				
Date	(mm)	(°C)	(°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy				
5/2/2016	000	16.5	09.5	Rainfall	No rain	No rain	No rain	No rain	No rain				
6/2/2016	000	19.0	08.0	Wind (Speed/ Dir)	1Km/Hr (WSW)	2Km/Hr (W)	3Km/Hr (WNW)	3Km/Hr (S)	3Km/Hr (S)				
7/2/2016	000	20.5	10.0	Temperature (Min-Max)	9 - 18°C	9 - 17°C	10 - 18°C	9 - 17°C	9 - 16°C				
8/2/2016	000	N/A	10.5	RH (Min-Max)	50 - 75%	50 - 78%	55 - 85%	65 - 90%	70 - 90%				

Gyalshing (AWS)				West Sikkim Forecast								
Data	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5			
Date	(mm)	(°C)	(°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy			
5/2/2016	000	17.5	06.5	Rainfall	Very Light	No rain	No rain	No rain	No rain			
6/2/2016	N/A	15.5	09.4	Wind (Speed/ Dir)	2Km/Hr (WSW)	3Km/Hr (WSW)	3Km/Hr (WNW)	4Km/Hr (WSW)	3Km/Hr (WSW)			
7/2/2016	000	20.3	08.9	Temperature (Min-Max)	6 - 16°C	6 - 15°C	7 - 15°C	7 - 14°C	6 - 13°C			
8/2/2016	000	13.5	08.9	RH (Min-Max)	52 - 80%	50 - 80%	65 - 88%	70 - 90%	65 - 88%			

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	Wards 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/m ² and vermicompost @ 500
				g/m ² incubated with 2% <i>Trichoderma</i>
				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	Harvesting/		\langle	Regular watering and weeding in main
vegetables	Vegetative			field is recommended.
(Cole crops)	, egetati ve			Earthing up and top dressing with
(Cole crops)			Ť	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	Post harvest crop		*	Regular watering should be done at
cardamom	management			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	Training/		\langle	Diseased and senile branches should
Mandarin	Pruning			be removed.
	6			Remove all the fruits from trees and
				the fruits dropped in the basin of tree
				and the orchard.
				Basin maintenance and manuring with
		lei de la companya de		FYM @ 30-35 kg/tree should be done.
				1 11/1 @ 50 55 kg/tree should be dolle.

			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 Yak		 	Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended. Feeding of concentrate feed along
		*	with mineral mixture and salt. Hay feeding is recommended.
Cattle, Sheep 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. 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
		ľ	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
			Ť	diet.
				6101