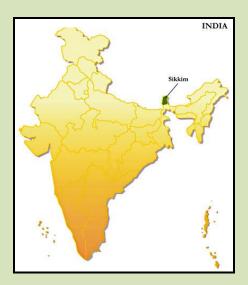


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 19TH DECEMBER – 22ND DECEMBER"2014



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





ISSUED ON FRIDAY 19TH DECEMBER'2014

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 (AWS)			North Sikkim Forecast									
			Day → Parameter↓	Day 1 Day 2		Day 3	Day 4	Day 5				
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Mainly Clear	Mainly Clear	Mainly Clear	Mainly Clear	Partly Cloudy			
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain			
16-12-2014	000	13.6	10.7	Wind (Km/Hr) (Speed/ Dir)	2(SSW)	1(SSE)	1(SSW)	2(SSW)	2(SSE)			
17-12-2014	003	17.7	07.3	Temperature (Min-Max)	7 - 19°C	7 - 19°C	7 - 19°C	7 - 18°C	8 - 18°C			
18-12-2014	18-12-2014 000 18.3 05.5		RH (Min-Max)	55 - 75%	57 - 75%	60 - 77%	62 - 78%	65 - 82%				
	Gangtok			East Sikkim Forecast								
				Day → Parameter↓	Day 1	Day 2 Day 3		Day 4	Day 5			
Date	Rainfall	infall Max. Temp			-	Min. Temp	Sky Condition	Mainly Clear	Mainly Clear	Mainly Clear	Mainly Clear	Partly Cloudy
Date	(mm)		(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain			
16-12-2014	000	11.4	08.8	Wind (Km/Hr) (Speed/ Dir)	2(SE)	1(E)	3(SSE)	2(SSE)	1(ENE)			
17-12-2014	003	13.7	05.7	Temperature (Min-Max)	7 - 15°C	7 - 15°C	7 - 14°C	7 - 14°C	7 - 14°C			
18-12-2014	000	14.6	05.7	RH (Min-Max)	50 - 70%	50 - 70%	55 - 75%	55 - 75%	62 - 80%			

Namthang			South Sikkim Forecast							
			Day → Parameter↓	Day 1 Day 2		Day 3	Day 4	Day 5		
Date	Rainfall	Max. Temp	emp Temp	Sky Condition	Mainly Clear	Mainly Clear	Mainly Clear	Mainly Clear	Partly Cloudy	
Date	(mm)	(°C)		Rainfall	No rain	No rain	No rain	No rain	No rain	
16-12-2014	000	14.0	09.2	Wind (Km/Hr) (Speed/ Dir)	3(SSE)	3(ESE)	5(S)	6(S)	4(E)	
17-12-2014	001	15.0	08.5	Temperature (Min-Max)	7 - 18°C	7 - 18°C	7 - 17°C	7 - 17°C	8 - 17°C	
18-12-2014	8-12-2014 000 17.0 06.5		RH (Min-Max)	50 - 70%	50 - 70% 55 - 72%		55 - 75%	60 - 78%		
Cycl	Gyalshing (AWS)			West Sikkim Forecast						
Gyal				Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Min. Temp Temp		Sky Condition	Mainly Clear	Mainly Clear	Mainly Clear	Mainly Clear	Partly Cloudy	
Date	(mm) (°C)		(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain	
16-12-2014	000	13.4	08.4	Wind (Km/Hr) (Speed/ Dir)	2(S)	2(SE)	3(WSW)	3(WSW)	2(ENE)	
17-12-2014	000	16.8	04.8	Temperature (Min-Max)	6 - 19°C	6 - 18°C	6 - 18°C	6 - 17°C	7 - 17°C	
18-12-2014	000	17.3	05.2	RH (Min-Max)	55 - 71%	55 - 72%	57 - 75%	60 - 77%	62 - 80%	

<u>Part II</u>

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops

- Solution 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.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories		
Crops					
Finger millet	Harvesting		Harvesting should be done as earliest during morning hour and store at safer place.		
Rapeseed and mustard	Sowing after harvest of rice/ Vegetative stage	White rust Image: Constraint of the second	 Thinning to maintain row to row and plant to plant spacing of 30x10 cm, respectively. One irrigation and mulching with locally available bio resources and one is recommended. Remove the infected inflorescence. 		
Buckwheat	Flowering / grain filling		Regular monitoring of crop.		

	1	1		
Garden pea	Sowing/			Sowing of pea to be completed after
	emergence			harvest of rice to benefit from
				residual moisture and mulching with
				locally available biomass after
				emergence is recommended.
Largo	Homeosting			Removal and burying of blight
Large cardamom	Harvesting		×	infected leaves.
curdumoni				
			×	Application of 500g vermicompost /
				2kg well decomposed FYM per
				clump is recommended.
				Two irrigations in a month are
				recommended.
				Field sanitation and removal of
				unproductive tillers.
Ginger	Harvesting/			Harvesting should be done at proper
C	Storage			stage.
	-		۲	Harvested rhizome should be dried
				for two weeks under shade condition
				and stored in cool and dry place for
				seed material.
Cole crops	Transplanting /	Damping off	٨	Transplanting of seedlings should be
cole crops	Vegetative		Ť	done immediately.
	vegetative		۵	Soil application of <i>Trichoderma</i>
		A DAY - V	Ý	viride/ Pseudomonas fluorescens @
				2.5 kg mixed with 50kg well
				decomposed FYM for 1 ha.
			×	Drenching with copper oxychloride @
				0.25 % or Bordeaux mixture @ 1% at
				10 days interval for the management
				of damping off and root rot.
				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.
			٨	Earthing up for early transplanted crop
				is recommended.

		1	
Tomato	Fruit setting/	Late blight of	\clubsuit Watering should be done at the base
	harvesting	tomato	of the plant.
	nur vesting		Removal of diseased leaves and
			branches and weekly spraying of
			copper oxychloride @ 0.25% for the
			management of late blight disease.
Potato	Planting/	Late blight of	♦ Kufri Jyoti, K. Giriraj, K. Sheetman,
		potato	K. Badshah are recommended
	vegetative		varieties.
			Tubers with two eyes, weighing 40-
			50 g are ideal for planting.
			\clubsuit Ridge to ridge spacing of 45 cm and
			plant to plant distance of 30 cm has to
			be maintained.
			FYM @ 10-15 t/ha and Neem cake
			500 kg/ ha is recommended.
			\clubsuit Removal of diseased leaves and
			branches and weekly spraying of
			copper oxychloride @ 0.25% for the
			management of late blight disease.
Sikkim	Harvesting		\clubsuit Pluck the fruit along with the twig to
Mandarin			avoid injury.
			\clubsuit Harvesting to be done carefully to
			avoid breakage of productive
			branches.
			Collect fallen fruits and destroy to
			prevent further multiplication of fruit
			flies.
			Packing of graded fruits in corrugated
			fibre boxes cushioned with dry paddy
			straw to reduce post harvest loss.
Animal Scier	ices		
Tibetan Sheep	Sheared sheep		Dipping the animal / spraying with
			ectoparasitic drug at 3 monthly
			intervals.
			\clubsuit Provide winter shelter for lambs.
Yak	Pregnancy	Weight gain	Pregnancy diagnosis is
			recommended.
			Feeding of concentrate feed along
			with mineral mixture and salt.
			\clubsuit Provide winter shelter for calves.
Cattle, Sheep	All stages		Chances of coming into estrus so
and Goat	1 m stuges		farmers are advised to look for heat
			sign especially during early morning
			and a spectrum and a set of the s
			6

				or late evening and ensure breeding
				of the animal after 12 hr of 1 st heat
				observe.
			٨	Feeding of colostrums within 2 hrs
				of birth.
			۲	Feeding of concentrate feed along
				with mineral mixture and salt.
			۲	De-worming with Fenbendazole @
				10 mg / kg body weight.
Poultry	All stages	High humidity	٨	Frequent raking and liming of deep
				litter materials.
			۲	Maintenance of brooder temperature
				for chicks with the help of electrical
				bulbs.
			٨	Ranikhet vaccination at 5 th day and at
				30 th day of age.
Pig	All stages		۲	Keep floor dry to avoid skin diseases.
			۲	De-worming with Fenbendazole @
				10 mg / kg body weight.
			٨	Dipping the animal / spraying with
				ectoparasitic drug at 3 monthly
				intervals.