

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 30th DECEMBER – 1st JANUARY"2015



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





ISSUED ON TUESDAY 30th 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					
Date	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	(mm)	(°C)	(°C)	Sky Condition	Mainly Clear	Partly Cloudy	Partly Cloudy	Partly Cloudy	Partly Cloudy
26-12-2014	000	00.0	00.0	Rainfall	No rain	No rain	No rain	No rain	No rain
27-12-2014	000	00.0	00.0	Wind (Speed/ Dir)	2Km/Hr (S)	2Km/Hr (SSE)	3Km/Hr (SSW)	3Km/Hr (SSW)	4Km/Hr (S)
28-12-2014	000	00.0	00.0	Temperature (Min-Max)	8 - 19°C	8 - 19°C	7 - 18°C	7 - 18°C	7 - 18°C
29-12-2014	000	00.0	00.0	RH (Min-Max)	55 - 70%	52 - 65%	56 - 80%	56 - 80%	57 - 81%
(Gangto	ok		East Sikkim Forecast					
Date	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	(mm)	(°C)	(°C)	Sky Condition	Mainly Clear	Partly Cloudy	Partly Cloudy	Mainly Clear	Mainly Clear
26-12-2014	000	00.0	00.0	Rainfall	No rain	No rain	No rain	No rain	No rain
26-12-2014 27-12-2014	000	00.0 00.0	00.0 00.0	Rainfall Wind (Speed/ Dir)	No rain 2Km/Hr (SE)	No rain 2Km/Hr (E)	No rain 3Km/Hr (SSE)	No rain 3Km/Hr (SSE)	No rain 3Km/Hr (SSE)
				Wind	2Km/Hr	2Km/Hr	3Km/Hr	3Km/Hr	3Km/Hr

Namthang			South Sikkim Forecast						
Date	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	(mm)	(°C)	(°C)	Sky Condition	Mainly Clear	Mainly Clear	Partly Cloudy	Mainly Clear	Mainly Clear
26-12-2014	000	00.0	00.0	Rainfall	No rain	No rain	No rain	No rain	No rain
27-12-2014	000	00.0	00.0	Wind (Speed/ Dir)	2Km/Hr (S)	3Km/Hr (E)	2Km/Hr (S)	3Km/Hr (S)	3Km/Hr (S)
28-12-2014	000	00.0	00.0	Temperature (Min-Max)	8 - 18°C	7 - 17°C	7 - 17°C	7 - 17°C	7 - 17°C
29-12-2014	000	00.0	00.0	RH (Min-Max)	50 - 69%	45 - 68%	52 - 75%	45 - 73%	43 - 70%
Gyal	shing	(AWS	5)	West Sikkim Forecast					
Date	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	(mm)	(°C)	(°C)	Sky Condition	Mainly Clear	Partly Cloudy	Partly Cloudy	Partly Cloudy	Mainly Clear
26-12-2014	000	00.0	00.0	Rainfall	No rain	No rain	No rain	No rain	No rain
27-12-2014	000	00.0	00.0	Wind (Speed/ Dir)	2Km/Hr (WSW)	3Km/Hr (E)	2Km/Hr (SW)	3Km/Hr (WSW)	4Km/Hr (W)
28-12-2014	000	00.0	00.0	Temperature (Min-Max)	6 - 18°C	6 - 17°C	6 - 17°C	6 - 17°C	5 - 16°C
29-12-2014	000	00.0	00.0	RH (Min-Max)	48 - 70%	45 - 65%	50 - 70%	50 - 72%	53 - 75%

<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 late *Rabi* vegetable crops like cole crops, pea, leafy vegetable *etc*.
- 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	·		
Rapeseed and mustard	Sowing / Vegetative / Flowering stage	White rust Image: Constraint of the second	 Thinning to maintain row to row and plant to plant spacing of 30x10 cm, respectively. Mulching with locally available bio resources is recommended. One irrigation at late vegetative/ flowering stage. Remove the infected inflorescence.
Buckwheat	Flowering / grain filling		Regular monitoring of crop.
Garden pea	Sowing/ vegetative/ flowering/ harvesting	• Rust	 Sowing of late pea to be completed at the earliest. Mulching with locally available biomass after emergence is recommended. Pod harvesting should be done

			٩	carefully to avoid plant damage. Preventive spray with 0.25% wettable sulphur for the management of rust and powdery mildew.
		 Powdery mildew Disease 		
Large	Harvesting			Removal and burying of blight
cardamom	That vesting		v	infected leaves.
			۲	Application of 500g vermicompost /
				2kg well decomposed FYM per
				clump is recommended.
				Two irrigations in a month are
			۵	recommended. Field sanitation and removal of
			×	unproductive tillers.
Ginger	Storage		٨	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
	Vegetative/			done immediately.
	Harvesting			Soil application of <i>Trichoderma</i> viride/ Pseudomonas fluorescens @
				2.5 kg mixed with 50kg well
				decomposed FYM for 1 ha.
		Club root	٨	Drenching with copper oxychloride @
				0.25 % or Bordeaux mixture @ 1% at
				10 days interval for the management of damping off and root rot.
		A STATISTICS	۲	Removal of club root infected plant
				and drenching with copper
				5

		1	
			 oxychloride @ 0.25 % or Bordeaux mixture @ 1%. 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. Earthing up for early transplanted crop is recommended. Over watering should be avoided.
Tomato	Fruit setting/	Late blight of	Watering should be done at the base
	harvesting	tomato	 of the plant. ♦ 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,
	vegetative	potato	K. Badshah are recommended varieties.
			 Tubers with two eyes, weighing 40- 50 g are ideal for planting. 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.
			Removal of diseased leaves and branches and weekly spraying of copper oxychloride @ 0.25% for the management of late blight disease.

Sikkim	Harvesting/		Pluck the fruit along wi	th the twig to
Mandarin			avoid injury.	
	Storage		Harvesting to be done	carefully to
			avoid breakage of	productive
			branches.	_
			Fruit can be stored on tre	es for delayed
			harvesting.	
			Collect fallen fruits ar	d destroy to
			prevent further multiplic	
			flies.	
			Packing of graded fruits	in corrugated
			fibre boxes cushioned w	-
			straw to reduce post harv	• • •
Sikkim	Harvesting/		Pluck the fruit along wi	
Mandarin	Ŭ		avoid injury.	U
	Storage		Harvesting to be done	carefully to
			avoid breakage of	
			branches.	1
			Fruit can be stored on tre	es for delayed
			harvesting.	-
			Collect fallen fruits ar	d destroy to
			prevent further multiplic	
			flies.	
			Packing of graded fruits	in corrugated
			fibre boxes cushioned w	-
			straw to reduce post harv	• • •
Kiwi frui	t Training		Dormant kiwi fruit pla	
	/Pruning		pruned to give proper	
	, i i i i i i i i i i i i i i i i i i i		vine.	-
Anima	l Sciences			
Tibetan S			Provide winter shelter fo	r lambs
Tioctairs	Sheared sheep		• Hovide white sherter to	1 1411105.
Yak	Pregnancy	Weight gain	Pregnancy diagnosis	is
			recommended.	
			Feeding of concentrate	feed along
			with mineral mixture and	l salt.
			Provide winter shelter for	r calves.
Cattle, Sh	eep All stages		\clubsuit Chances of coming in	to estrus so
and Goat			farmers are advised to	look for heat
			sign especially during e	arly morning
			or late evening and ens	-
			of the animal after 12	nr of 1 st heat
			observe.	
			Feeding of colostrums	within 2 hrs
			of birth.	
			Feeding of concentrate	feed along
<u> </u>		·		

			 with jaggery, mineral mixture and salt. De-worming with Fenbendazole @ 10 mg / kg body weight.
Poultry	All stages	High humidity	 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. Ranikhet vaccination at 5th day and at 30th day of age.
Pig	All stages		 Keep floor dry to avoid skin diseases. De-worming with Fenbendazole @ 10 mg / kg body weight.