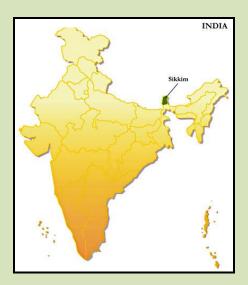


# STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 30<sup>th</sup> DECEMBER – 1<sup>st</sup> JANUARY"2015



#### 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	<ul> <li>Thinning to maintain row to row and plant to plant spacing of 30x10 cm, respectively.</li> <li>Mulching with locally available bio resources is recommended.</li> <li>One irrigation at late vegetative/ flowering stage.</li> <li>Remove the infected inflorescence.</li> </ul>
Buckwheat	Flowering / grain filling		Regular monitoring of crop.
Garden pea	Sowing/ vegetative/ flowering/ harvesting	• Rust	<ul> <li>Sowing of late pea to be completed at the earliest.</li> <li>Mulching with locally available biomass after emergence is recommended.</li> <li>Pod harvesting should be done</li> </ul>

			٩	carefully to avoid plant damage. Preventive spray with 0.25% wettable sulphur for the management of rust and powdery mildew.
		<ul> <li>Powdery mildew Disease</li> </ul>		
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	
			<ul> <li>oxychloride @ 0.25 % or Bordeaux mixture @ 1%.</li> <li>Application of Neem cake/ mustard oil cake @ 50kg/1000sqm.</li> <li>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.</li> <li>Earthing up for early transplanted crop is recommended.</li> <li>Over watering should be avoided.</li> </ul>
Tomato	Fruit setting/	Late blight of	Watering should be done at the base
	harvesting	tomato	<ul> <li>of the plant.</li> <li>♦ Removal of diseased leaves and branches and weekly spraying of copper oxychloride @ 0.25% for the management of late blight disease.</li> </ul>
Potato	Planting/	<ul> <li>Late blight of</li> </ul>	♦ Kufri Jyoti, K. Giriraj, K. Sheetman,
	vegetative	potato	K. Badshah are recommended varieties.
			<ul> <li>Tubers with two eyes, weighing 40- 50 g are ideal for planting.</li> <li>Ridge to ridge spacing of 45 cm and plant to plant distance of 30 cm has to be maintained.</li> </ul>
			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 <sup>st</sup> heat
			observe.	
			Feeding of colostrums	within 2 hrs
			of birth.	
			Feeding of concentrate	feed along
<u> </u>		·		

			<ul> <li>with jaggery, mineral mixture and salt.</li> <li>De-worming with Fenbendazole @ 10 mg / kg body weight.</li> </ul>
Poultry	All stages	High humidity	<ul> <li>Frequent raking and liming of deep litter materials.</li> <li>Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.</li> <li>Maintenance of brooder temperature for chicks with the help of electrical bulbs.</li> <li>Ranikhet vaccination at 5<sup>th</sup> day and at 30<sup>th</sup> day of age.</li> </ul>
Pig	All stages		<ul> <li>Keep floor dry to avoid skin diseases.</li> <li>De-worming with Fenbendazole @ 10 mg / kg body weight.</li> </ul>