

## STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 10<sup>TH</sup> OCTOBER – 13<sup>TH</sup> OCTOBER"2014



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





### ISSUED ON TUESDAY 10<sup>TH</sup> OCTOBER'2014 BY

## **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	
Data	Rainfa ll		Min. Temp	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Date		(°C)	Rainfall	Very Light	Very Light	Light	Light	Light	
7-10-2014	000	27.9	16.9	Wind (Speed/ Dir)	1KT(SE)	2KT(SSE)	3KT(S)	1KT(SSE)	2KT(S)
8-10-2014	000	27.8	15.9	Temperature (Min-Max)	19 - 26°C	19 - 25°C	19 - 25°C	19 - 26°C	19 - 26°C
9-10-2014	000	25.3	16.4	RH (Min-Max)	76 - 92%	74 - 91%	80 - 94%	74 - 91%	79 - 93%
				Eas	rt 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	Very Light	Very Light	Light	Moderate	Light
7-10-2014	000	22.9	15.8	Wind (Speed/Dir)	1KT(E)	2KT(E)	1KT(ESE)	2KT(E)	2KT(S)
8-10-2014	000	22.4	15.1	Temperature (Min-Max)	16 - 21°C	17 - 20°C	17 - 20°C	17 - 21°C	17 - 21°C

Namthong			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	Very Light	Very Light	Light	Light	Light	
7-10-2014	000	28.0	17.5	Wind (Speed/ Dir)	1KT(E)	2KT(ESE)	1KT(SE)	2KT(ESE)	3KT(SSE)
8-10-2014	000	28.5	17.0	Temperature (Min-Max)	19 - 27°C	19 - 26°C	19 - 26°C	19 - 26°C	19 - 26°C
9-10-2014	000	28.5	16.5	RH (Min-Max)	78 - 91%	79 - 92%	78 - 92%	78 - 92%	80 - 91%
			West Sikkim Forecast						
Gyal	<b>Gyalshing (AWS)</b>			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	Very Light	Light	Light	Light	Light
	007	26.3	14.6	Wind (Speed/Dir)	1KT(E)	2KT(ESE)	3KT(ESE)	1KT(ESE)	2KT(E)
7-10-2014									
7-10-2014 8-10-2014	009	24.9	14.7	Temperature (Min-Max)	17 - 24°C	17 - 23°C	17 - 23°C	17 - 24°C	17 - 24°C

# <u>Part II</u>

## AGRO-METEREOLOGICAL ADVISORIES

#### **General Advisories for all the crops**

- Solution Operation Conservation of soil moisture through locally available biomass mulching in all the crops.
- Preventive spray and soil drenching with copperoxychloride@2.5 g/l of water at weekly intervals.
- Spraying of plant protection biopesticides in the evening.
- Field preparation for early *Rabi* vegetable crops like cole crops, pea, leafy vegetables, tomato *etc* and fodder crops(oat/berseem).
- Water harvesting and storage in various structures like *Jalkund* is recommended for cultivation of *Rabi* crops.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Rice	Booting/ Panicle initiation	<ul> <li>Blast of rice</li> <li>Second state</li> <li>Leaf folder</li> </ul>	<ul> <li>Maintain 2-3 cm water in the field.</li> <li>Spray copper oxychloride @2.5 g/l for rice blast.</li> <li>Spraying of <i>Pseudomonas fluorescens</i> @ 0.2% for management of blast and sheath blight at weekly intervals.</li> <li>Spray neem based formulation (1500ppm) @ 3ml per litre of water for controlling leaf folder.</li> <li>Monitor regularly and unfold the leaves folded by the leaf folder; and manually collect and destroy.</li> </ul>
Soybean	Harvesting stage		<ul> <li>Proper drainage should be maintained.</li> <li>Harvesting should be done when pod turns yellowish colour.</li> </ul>

Pahenlo dal	Vegetative/		Proper drainage should be maintained
/Kalo Dal	flowering/		Spray neem based formulation (1500
	_		ppm) @ 3ml per litre of water for
( <i>urd</i> bean)	Pod initiation		controlling leaf feeding beetles.
			Spray COC (0.25%) or Bordeaux
			mixture @ 1% at weekly intervals for
			the management of various leaf spot
			diseases.
Finger millet	Flowering		
Thiger minet	Flowering		Ensure proper drainage to avoid water
			logging.
Rape seed and	Sowing		Field preparation for sowing of both
mustard	Sowing		the crops @ 4-5 kg seed/ha.
mustaru			
			FYM application @ 5-10 t/ha and
			vermicompost @ 2 t/ha is
			recommended.
Beans	Flowering/	✤ Blister beetle may	Handpicking is effective to control
	Pod initiation	occur and destroy	this pest.
		flowers.	$\diamond$ Collection and destruction of initial
			infected plant parts.
			Spray wettable sulphur @ 2 g/l to
			control powdery mildew.
		TO PUNCT	Proper drainage should be maintained
			Spray COC (0.25%) or Bordeaux
			mixture @ 1% at weekly intervals for
			the management of various leaf spot
		<ul> <li>Powdery mildew</li> </ul>	diseases.
Rajmash	Sowing		After field preparation sowing should
	-		be completed @ 75-80 kg seed /ha at
			the earliest.
Large	Capsule	<ul> <li>Infestation of shoot</li> </ul>	Collection and destruction of infested
cardamom	formation/	flies and stem borer.	tillers. Spraying of neem formulation
	Harvesting		(1500 ppm) @ 3 ml/l.
			Collection and destruction of disease
			infected plants/ tillers.
			$\clubsuit$ Harvesting of mature capsule and
			removal of unproductive and old
			tillers should be done as early as
			possible.
Cole crops			Time for nursery raising of cabbage,
Pb			cauliflower and broccoli under low
			cost structure.
			♦ If nurseries are ready then
			transplanting can be done.
			Dolomite application @ 200g/sqm for

			<ul> <li>soil having pH less than 5.5.</li> <li>Soil drenching of nursery bed with copper oxychloride @2.5 g/ 1 or Bordeaux mixture @ 1% to prevent damping off.</li> <li>Soil application of <i>Trichoderma viride</i> @ 2.5 kg mixed with 50kg well decomposed FYM for 1 ha.</li> <li>Prepare 15cm raised bed nursery of 1m width.</li> <li>Well-decomposed FYM @ 2.5 kg/sqm to be applied during nursery bed preparation.</li> </ul>
Dalley Chilli	Fruiting/ Harvesting	<ul> <li>Fruit fly damage</li> </ul>	<ul> <li>Proper drainage should be maintained.</li> <li>Fallen fruits should be collected and destroyed to minimize fruit fly.</li> </ul>
Sikkim Mandarin	Fruit growth	<ul> <li>Aphid</li> <li>Aphid</li> <li>Image: Constraint of the second sec</li></ul>	<ul> <li>Proper drainage should be maintained.</li> <li>Basin of plants should be cleaned.</li> <li>Spray petroleum oil based agro-spray @ 10 ml/l for managing aphid, leaf miner, mealy bug etc.</li> <li>Regular monitoring and cleaning of infested trunk. Plug the holes with cotton soaked in kerosene/petrol and plaster with mixture of cow dung and soil.</li> <li>Spray copper oxychloride @ 2.5 g/l to manage citrus scab.</li> </ul>
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		<ul> <li>Trunk borer</li> </ul>	
		<ul> <li>Scab</li> </ul>	
Animal Scien	ces		
Tibetan Sheep	Full grown wool	Chances of soiling and picking infection.	Go for shearing and followed by spraying or Dipping in ectoparasitic solution.
Yak, Tibetan	Breeding	Weight gain	Start observing heat sign.
Sheep	season		Collection and preservation of green fodder for hay purpose.
Cattle, Sheep	All stages	Plenty of green pasture/	♦ Chances of coming into estrus so
and Goat		fodder available in the	farmers are advised to look for heat
		field.	sign especially during early morning
			or late evening and ensure breeding
			of the animal after 12 hr of 1 <sup>st</sup> heat
			<ul> <li>observe.</li> <li>FMD vaccination is recommended.</li> </ul>
Poultry	All stages	High humidity	<ul> <li>Frequent raking and liming of deep</li> </ul>
i oulu y	1 III Stuges	ingi numaty	litter materials.
Pig	All stages	High humidity	♦ Keep floor dry to avoid skin diseases.