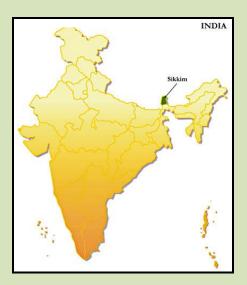


# STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 28<sup>th</sup> OCTOBER – 30<sup>th</sup> OCTOBER"2014



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





### ISSUED ON TUESDAY 28th 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						
Data	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	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
24-10-2014	000	24.9	13.3	Rainfall	No rain	No rain	No rain	No rain	No rain		
25-10-2014	000	22.8	13.9	Wind (Speed/ Dir)	3KT(SSE)	2KT(SSE)	2KT(S)	2KT(SSE)	3KT(SSE)		
26-10-2014	003	19.7	13.1	Temperature (Min-Max)	12 - 23°C	13 - 24°C	13 - 24°C	13 - 24°C	12 - 24°C		
27-10-2014	000	23.1	11.5	RH (Min-Max)	70 - 87%	73 - 88%	70 - 85%	68 - 85%	70 - 85%		

Gangtok				East Sikkim Forecast						
R	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	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
24-10-2014	000	20.0	12.4	Rainfall	No rain					
25-10-2014	000	18.8	12.5	Wind (Speed/ Dir)	2KT(E)	2KT(E)	1KT(ESE)	1KT(E)	2KT(E)	
26-10-2014	001	16.0	11.2	Temperature (Min-Max)	11 - 16°C	11 - 18°C	11 - 19°C	11 - 19°C	11 - 19°C	
27-10-2014	000	18.8	10.5	RH (Min-Max)	70 - 90%	70 - 90%	65 - 88%	65 - 85%	65 - 85%	

	Namt	hang			South Sikkim Forecast							
Date	Rainfall	ainfall Max. Temp	Max. Temp	Max. Temp	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	(mm)	(°C)	(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy			
24-10-2014	000	23.0	16.5	Rainfall	No rain	No rain	No rain	No rain	No rain			
25-10-2014	000	23.5	16.5	Wind (Speed/ Dir)	2KT(E)	2KT(ESE)	1KT(SE)	1KT(ESE)	2KT(ESE)			
26-10-2014	000	19.0	14.0	Temperature (Min-Max)	12 - 21°C	13 - 22°C	13 - 23°C	14 - 23°C	14 - 23°C			
27-10-2014	000	20.5	11.5	RH (Min-Max)	70 - 90%	70 - 90%	65 - 90%	65 - 85%	65 - 85%			

Gyalshing (AWS)				West Sikkim Forecast						
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	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
24-10-2014	000	22.5	11.5	Rainfall	No rain					
25-10-2014	000	23.1	11.8	Wind (Speed/ Dir)	3KT(E)	3KT(ESE)	2KT(SE)	2KT(ESE)	3KT(ESE)	
26-10-2014	000	N/A	12.4	Temperature (Min-Max)	22/10	23/11	23/11	23/11	22/10	
27-10-2014	000	N/A	09.5	RH (Min-Max)	71 - 89%	67 - 85%	63 - 85%	64 - 87%	65 - 86%	

# <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.
- Field preparation for *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	Panicle initiation/ Grain filling/ maturity	<ul> <li>Blast of rice</li> </ul>	<ul> <li>Maintain 2-3 cm water in the field where crop is in panicle initiation stage.</li> <li>Drained out water from the field where crop is in maturity stage.</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 Gundhi bug.</li> <li>Use of birds scaring ribbon for preventing bird's damage.</li> </ul>
Soybean	Grain filling /Pod maturity/ Harvesting stage	Leaf folder	<ul> <li>Harvesting should be done when pod turns yellowish colour.</li> <li>Spray neem based formulation (1500ppm) @ 3ml per litre of water for controlling leaf folder.</li> </ul>
Pahenlo dal /Kalo Dal	Flowering/ Pod formation		<ul> <li>Spray neem based formulation (1500 ppm) @ 3ml per litre of water for controlling leaf feeding beetles.</li> </ul>

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( <i>urd</i> bean)			Spray COC (0.25%) or Bordeaux
			mixture @ 1% at weekly intervals for
			the management of various leaf spot
			diseases.
Finger millet	Flowering/		♦ Use of birds scaring ribbon for
	grain		preventing bird's damage.
	formation		
Rapeseed and	Sowing/		$\clubsuit$ Field preparation for sowing of both
mustard	emergence		the crops @ 4-5 kg seed/ha.
			Seed treatment with <i>Trichoderma</i>
			viride / T. harzianum @ 4g/kg.
			FYM application @ 5-10 t/ha and
			vermicompost @ 2 t/ha is
			recommended.
Beans	Pod formation/	<ul> <li>Powdery mildew</li> </ul>	Handpicking is effective to control
	maturity		this pest.
	5		Collection and destruction of initial
			infected plant parts.
			Spray wettable sulphur @ 2 g/l to
			control powdery mildew.
			Spray COC (0.25%) or Bordeaux
			mixture @ 1% at weekly intervals for
			the management of various leaf spot
			diseases.
Rajmash	Vegetative		Field should be kept weed free.
	growth		Staking should be provided for pole
			type bean.
			Mulching with locally available
			biomass @ 5 t/ha to conserve the soil
			moisture.
Large	Harvesting		Collection and destruction of disease
cardamom			infected plants/ tillers.
			Harvesting of mature capsule and
			removal of unproductive and old
			tillers should be done as early as
			possible.
			Spray wettable sulphur @ 0.25 % for
			the management of rust.
Cole crops	Transplanting /		<ul> <li>Transplanting of seedlings should be</li> </ul>
Cole crops	Vegetative		done immediately.
	Vegetative		Soil application of <i>Trichoderma</i>
			viride/ Pseudomonas fluorescens @
			2.5 kg mixed with 50kg well
			decomposed FYM for 1 ha.
			Weeding should be done regularly.

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Dalley Chilli	Harvesting			Fallen fruits should be collected and
			۵	destroyed to minimize fruit fly. Fruit should be harvested and keep in
			v	shade overnight to remove field heat.
				-
Sikkim	Fruit growth	<ul> <li>Aphid</li> </ul>		Basin of plants should be cleaned and
Mandarin				mulching should be done with locally
			۵	available biomass. Spray petroleum oil based agro-spray
			Ý	@ 10 ml/l for managing aphid, leaf
				miner, mealy bug etc.
			۲	Regular monitoring and cleaning of
		✤ Leaf miner		infested trunk. Plug the holes with
				cotton soaked in kerosene/petrol and
		Same Strate		plaster with mixture of cow dung and
				soil.
			~	Spray copper oxychloride @ 2.5 g/ l to manage citrus scab.
				manage entras seab.
		<ul> <li>Mealy bug</li> </ul>		
		- The Actual		
		<ul> <li>Trunk borer</li> </ul>		
		6		
		✤ Scab		
		State .		
		OX FIG 12		
Animal Scier	ices			
Tibetan Sheep	Full grown	Chances of soiling and	٩	Go for shearing and followed by
	wool	picking infection.		spraying or Dipping in ectoparasitic
		***		solution.
Yak, Tibetan	Breeding	Weight gain		Start observing heat sign.
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Sheep	season			Collection and preservation of green
				fodder for hay purpose.
Cattle, Sheep	All stages	Plenty of green pasture/	۱	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
				observe.
			۲	FMD and HS vaccination is
				recommended.
			٨	Feeding of colostrums within 2 hrs of
				birth.
Poultry	All stages	High humidity	٨	Frequent raking and liming of deep
				litter materials.
			٨	Maintenance of brooder temperature
				for chicks with the help of electrical
				bulbs.
Pig	All stages	High humidity	٨	Keep floor dry to avoid skin diseases.