

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 30TH SEPTEMBER - 02ND OCTOBER"2014

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





ISSUED ON TUESDAY 30TH SEPTEMBER'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	
26-9-2014	004	21.7	16.9	Rainfall	Light	Very Light	Very Light	Very Light	Very Light	
27-9-2014	015	27.2	16.7	Wind (Speed/ Dir)	1KT(SE)	2KT(SE)	3KT(NE)	1KT(ENE)	2KT(NE)	
28-9-2014	000	26.1	17.5	Temperature (Min-Max)	19 - 26°C	19 - 25°C	19 - 25°C	19 - 26°C	19 - 26°C	
29-9-2014	006	25.4	16.0	RH (Min-Max)	76 - 92%	74 - 91%	80 - 94%	74 - 91%	79 - 93%	

	Gangtok			East 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	
26-9-2014	009	18.8	16.0	Rainfall	Light	Light	Very Light	Very Light	Light	
27-9-2014	019	21.1	15.5	Wind (Speed/ Dir)	1KT(SSW)	2KT(E)	1KT(ENE)	2KT(SSE)	2KT(SE)	
28-9-2014	000	19.6	16.4	Temperature (Min-Max)	16 - 21°C	17 - 20°C	17 - 20°C	17 - 21°C	17 - 21°C	
29-9-2014	008	19.5	13.6	RH (Min-Max)	80 - 91%	82 - 93%	79 - 92%	78 - 93%	83 - 94%	

Namthang			South 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
26-9-2014	002	24.5	17.5	Rainfall	Moderate	Light	Light	Light	Light
27-9-2014	046	26.5	17.0	Wind (Speed/ Dir)	1KT(SSE)	2KT(ESE)	1KT(NE)	2KT(SE)	3KT(E)
28-9-2014	000	26.5	18.0	Temperature (Min-Max)	19 - 27°C	19 - 26°C	19 - 26°C	19 - 26°C	19 - 26°C
29-9-2014	006	27.5	17.0	RH (Min-Max)	78 - 91%	79 - 92%	78 - 92%	78 - 92%	80 - 91%

(Gyalshing (AWS)			West 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	
26-9-2014	001	20.1	14.6	Rainfall	Very Light					
27-9-2014	002	22.3	15.4	Wind (Speed/ Dir)	1KT(ENE)	2KT(ESE)	3KT(NE)	1KT(SE)	2KT(ENE)	
28-9-2014	002	20.3	15.3	Temperature (Min-Max)	24/17	23/17	23/17	24/17	24/17	
29-9-2014	002	22.9	13.7	RH (Min-Max)	93/78	92/80	92/78	91/76	93/80	

Part II

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops

- 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	Blast of riceLeaf folder	 Maintain 2-3 cm water in the field. Spray copper oxychloride @2.5 g/l for rice blast. Spraying of <i>Pseudomonas fluorescens</i> @ 0.2% for management of blast and sheath blight at weekly intervals. Spray neem based formulation (1500ppm) @ 3ml per litre of water for controlling leaf folder. Monitor regularly and unfold the leaves folded by the leaf folder; and manually collect and destroy.
Soybean	Harvesting stage		 Proper drainage should be maintained. Harvesting should be done when pod turns yellowish colour.

Pahenlo dal	Vegetative/		Proper drainage should be maintained
/Kalo Dal	flowering/		Spray neem based formulation (1500
(und boom)	Pod initiation		ppm) @ 3ml per litre of water for
(urd bean)	Pod Illitiation		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		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.	Collection and destruction of initial
			infected plant parts.
			Spray wettable sulphur @ 2 g/l to
			control powdery mildew.
			Proper drainage should be maintained
			Spray COC (0.25%) or Bordeaux
			mixture @ 1% at weekly intervals for
		. D 1 '11	the management of various leaf spot
		❖ Powdery mildew	diseases.
Rajmash	Sowing		◆ After field preparation sowing should
Kajiiiasii	Sowing		be completed @ 75-80 kg seed /ha at
			the earliest.
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Large	Capsule	❖ Infestation of shoot	Collection and destruction of infested
cardamom	formation/ Harvesting	flies and stem borer.	tillers. Spraying of neem formulation
	Trai vesting		(1500 ppm) @ 3 ml/l.
			Collection and destruction of disease
			infected plants/ tillers.
			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,
Cole crops			cauliflower and broccoli under low
			cost structure.
			◆ If nurseries are ready then
			transplanting can be done.
			 Dolomite application @ 200g/sqm for
			. Doromic application & 2008/5411 101

Mandarin Mandarin	Dalley Chilli	Fruiting/ Harvesting	❖ Fruit fly damage	soil having pH less than 5.5. Soil drenching of nursery bed with copper oxychloride @2.5 g/ 1 or Bordeaux mixture @ 1% to prevent damping off. Soil application of <i>Trichoderma viride</i> @ 2.5 kg mixed with 50kg well decomposed FYM for 1 ha. Prepare 15cm raised bed nursery of 1m width. Well-decomposed FYM @ 2.5 kg/sqm to be applied during nursery bed preparation. Proper drainage should be maintained. Fallen fruits should be collected and destroyed to minimize fruit fly.
		Fruit growth	★ Leaf miner	 maintained. ♦ Basin of plants should be cleaned. ♦ Spray petroleum oil based agro-spray @ 10 ml/l for managing aphid, leaf miner, mealy bug etc. ♦ 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. ♦ Spray copper oxychloride @ 2.5 g/l to

Trunk borer



Scab



Animal Sciences

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Tibetan Sheep	Full grown	Chances of soiling and	\limits	Go for shearing and followed by
	wool	picking infection.		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/	\limits	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 st heat
				observe.
			*	FMD vaccination is recommended.
Poultry	All stages	High humidity	\limits	Frequent raking and liming of deep
				litter materials.
Pig	All stages	High humidity	\limits	Keep floor dry to avoid skin diseases.