

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



PERIOD: 2ND SEPTEMBER - 4TH SEPTEMBER"2014

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





ISSUED ON TUESDAY 2ND 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

Part I: Weather

Significant Past Weather in different districts during the period 29/8/14 TO 01/09/14

Weather Forecast for different districts for the period 02/09/14 to 06/09/14

North Sikkim

Mangan (AWS)				North Sikkim	
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	■ Generally cloudy sky during the period 2 nd September to 6 th September is expected.	
29-08-2014	021.0	30.9	18.9	 Moderate rain is expected during the period 2nd September to 6th September. Wind from south-southeasterly to south- 	
30-08-2014	012.0	30.8	18.7	southwesterly with an average speed of 2-4 km/hr is expected. Maximum and minimum temperatures are	
31-08-2014	009.0	23.2	19.4	expected to be around 29-30°C and 19°C respectively.	
01-09-2014	015.0	26.0	19.3	Maximum and minimum relative humidity is expected to be 88-98% and 65-75% respectively.	

East Sikkim

Gangtok				East Sikkim
Date	Rainfall	Max. Temp	Min. Temp	■ Generally cloudy sky during the period 2 nd
	(mm)	(°C)	(°C)	September to 6 th September is expected.
29-08-2014	042.0	24.5	16.8	■ Light to moderate rain is expected during the period 2 nd September to 6 th September.
30-08-2014	033.6	24.9	17.2	■ Wind from southeasterly to south-south-westerly with an average speed of 1-2 km/hr is expected.
31-08-2014	000.0	19.2	18.1	Maximum and minimum temperatures are expected to be around 23-24°C and 17°C respectively.
01-09-2014	040.8	19.4	17.4	■ Maximum and minimum relative humidity is expected to be 90-98% and 65-74% respectively.

Significant Past Weather in different districts during the period 29/8/14 TO 01/09/14

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South Sikkim

Namthang				South Sikkim
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	■ Generally cloudy sky during the period 2 nd September to 6 th September is expected.
29-08-2014	006.8	29.0	20.0	 Light to moderate rain is expected during the period 2nd September to 6th September. Wind from southeasterly to southerly with an
30-08-2014	000.0	29.5	20.0	average speed of 2-3 km/hr is expected. ■ Maximum and minimum temperatures are expected to be around 28-29°C and 19-20°C
31-08-2014	003.8	29.5	20.0	respectively. Maximum and minimum relative humidity is expected to be 90-97% and 65-72%
01-09-2014	037.6	25.0	20.0	respectively.

West Sikkim

Gyalshing				West Sikkim
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Generally cloudy sky during the period 2 nd September to 6 th September is expected.
29-08-2014	N/A	27.6	16.4	 Light to moderate rain is expected during the period 2nd September to 6th September. Wind from easterly to southeasterly with an
30-08-2014	N/A	27.9	17.3	average speed of 1-3 km/hr is expected. Maximum and minimum temperatures are expected to be around 26-27°C and 17°C
31-08-2014	N/A	20.7	17.8	respectively. Maximum and minimum relative humidity is
01-09-2014	N/A	N/A	17.0	expected to be 92-97% and 69-77% respectively.

Part II

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops

- Proper drainage to be maintained in pulse/beans/ginger/turmeric/Dalley chilli.
- Avoid water stagnation in guava/ mandarin crop.
- ◆ Preventive spray and soil drenching with copperoxychloride@2.5 g/l of water at weekly intervals.
- Avoid spraying of plant protection biopesticides during rain and morning hours.
- Field preparation for early *Rabi* vegetable crops like cole crops, pea, leafy vegetables, tomato *etc*.
- ♦ 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	Maximum tillering/booting	Leaf folder Blast of rice	 Weeding should be completed. Maintain 2-3 cm water in the field. 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. 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.

Soybean	Pod formation/ milking stage	Blister beetle Leaf roller damage	 Proper drainage should be maintained. Spray neem based formulation (1500ppm) @ 3ml per litre of water for controlling leaf roller. Monitor regularly and unfold the leaves folded by the leaf roller. Manually collect and destroy both the insects. Spray wettable Sulphur @0.25% for the management of rust and powdery mildew.
Pahenlo dal	Vegetative/		 Proper drainage should be maintained
/Kalo Dal	flowering		 Weeding should be done.
(urd bean)			* Spray neem based formulation (1500
(ura bean)			ppm) @ 3ml per litre of water for
			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	Tillering/		 Maintain optimum plant population
	flowering		for good yield.
	lio wering		Weeding to be undertaken.
Beans	Vegetative/	Blister beetle may	 Handpicking is effective to control
	Flowering	occur and destroy	this pest.
		flowers.	Collection and destruction of initial
			infected plant parts.Spray out sulphur based fungicide @
			2 g/l to control powdery mildew.
			 Proper drainage should be maintained
			• Spray COC (0.25%) or Bordeaux
		Powdery mildew	mixture @ 1% at weekly intervals for
		1 owdery mindew	the management of various leaf spot diseases.
Large cardamom	Capsule	Infestation of shoot flies	* Collection and destruction of infested
	formation	and stem borer.	tillers. Spraying of neem formulation
			(1500 ppm) @ 3 ml/l.
			Keep cardamom fields weed free.Collection and destruction of disease
			* Concentration destruction of disease

				infected plants/ tillers.
Cole crops			•	Time for nursery raising of cabbage, cauliflower and broccoli under low cost structure. Dolomite application @ 200g/sqm for soil having pH less than 5.5. Seed treatment with <i>Trichoderma viride</i> @ 4 g/kg of seed. 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.
Dalley Chilli	Fruiting	Fruit fly damage		Field should be cleaned and weed free. Proper drainage should be maintained. Fallen fruits should be collected and destroyed to minimize fruit fly.
Sikkim Mandarin	Fruit growth	Aphid Leaf miner	•	Proper drainage should be 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 manage citrus scab.





Trunk borer



Scab



Animal Sciences

Animai Scien	Minut Sciences					
Tibetan Sheep	Full grown wool	Chances of soiling and picking infection.	 Go for shearing and followed by spraying or Dipping in ectoparasit solution. 			
Yak, Tibetan Sheep	Breeding season	Weight gain	* Start observing heat sign.			
Cattle, Sheep and Goat	All stages	Plenty of green pasture/ fodder available in the field.	* Chances of coming into estrus a farmers are advised to look for he sign especially during early morning or late evening and ensure breeding the animal after 12 hr of 1st he observe.			
Poultry	All stages	High humidity	 Frequent raking and liming of deel litter materials. 			
Pig	All stages	High humidity	 Keep floor dry to avoid skin diseases. 			