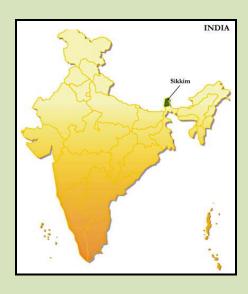


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 16TH SEPTEMBER - 18TH SEPTEMBER"2014

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





ISSUED ON TUESDAY 16TH 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 12/09/14 TO 15/09/14

Weather Forecast for different districts for the period 16/09/14 to 20/09/14

North Sikkim

Mangan (AWS)				North Sikkim				
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	■ Generally cloudy sky during the period 16 th September to 20 th September is expected.				
12-09-2014	005.0	25.6	18.2	 Light to moderate rain is expected during the period 16th September to 20th September. Wind from southerly to southwesterly with an 				
13-09-2014	036.0	25.0	18.9	average speed of 1-3 km/hr is expected. Maximum and minimum temperatures expected to be around 26-28°C and 1				
14-09-2014	033.0	24.8	18.4	respectively. Maximum and minimum relative humidity is				
15-09-2014	000.0	24.1	19.0	expected to be 92-97% and 74-85% respectively.				

East Sikkim

Gangtok				East Sikkim	
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	■ Generally cloudy sky during the period 16 th September to 20 th September is expected.	
12-09-2014	019.0	21.3	16.0	 Light to moderate rain is expected during the period 16th September to 20th September. Wind from south-southeasterly to 	
13-09-2014	008.2	21.3	16.9	southwesterly with an average speed of 1-2 km/hr is expected. Maximum and minimum temperatures are	
14-09-2014	003.2	21.2	17.1	expected to be around 21-22°C and 17°C respectively. Maximum and minimum relative humidity is	
15-09-2014	002.7	19.4	17.2	expected to be 92-95% and 74-80% respectively.	

Significant Past Weather in different districts during the period 12/09/14 TO 15/09/14

Weather Forecast for different districts for the period 16/09/14 to 20/09/14

South Sikkim

Namthang				South Sikkim			
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	■ Generally cloudy sky during the period 16 th September to 20 th September is expected.			
12-09-2014	002.0	28.0	18.5	 Light to moderate rain is expected during the period 16th September to 20th September. Wind from southeasterly to southwesterly with 			
13-09-2014	001.4	27.5	19.5	an average speed of 2-3 km/hr is expected. Maximum and minimum temperatures a expected to be around 27-29°C and 19			
14-09-2014	000.0	28.5	18.0	respectively. Maximum and minimum relative humidity is expected to be 92-96% and 72-80%			
15-09-2014	006.0	27.5	19.0	respectively.			

West Sikkim

Gyalshing				West Sikkim		
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	■ Generally cloudy sky during the period 16 th September to 20 th September is expected.		
12-09-2014	001.0	N/A	16.5	 Light to moderate rain is expected during the period 16th September to 20th September. Wind from easterly to southerly with an 		
13-09-2014	001.0	24.1	17.1	average speed of 1-3 km/hr is expected. Maximum and minimum temperatures expected to be around 23-25°C and 1		
14-09-2014	001.0	N/A	16.5	respectively. Maximum and minimum relative humidity is		
15-09-2014	001.0	N/A	17.3	expected to be 91-97% and 75-79% 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	❖ Blast of rice❖ Leaf folder	 Weeding should be completed. Maintain 2-3 cm water in the field. Spray copper oxychloride @2.5 g/l for rice blast. Spraying of Pseudomonas fluorescens @ 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	Pod formation/ milking stage	❖ Blister beetle❖ Leaf roller damage	 Proper drainage should be maintained. 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. Spray neem based formulation (1500ppm) @ 3ml per litre of water for controlling leaf roller.
Pahenlo dal /Kalo Dal (<i>urd</i> bean)	Vegetative/ flowering		 Proper drainage should be maintained Weeding should be done. Spray neem based formulation (1500 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/ flowering		 Maintain optimum plant population for good yield. Weeding to be undertaken.
Beans	Vegetative/ Flowering	 Blister beetle may occur and destroy flowers. Powdery mildew 	 Handpicking is effective to control this pest. 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 mixture @ 1% at weekly intervals for the management of various leaf spot diseases.
Large cardamom	Capsule formation	❖ Infestation of shoot flies and stem borer.	 Collection and destruction of infested tillers. Spraying of neem formulation (1500 ppm) @ 3 ml/l. Keep cardamom fields weed free. Collection and 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/l 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

Tibetan Sheep	Full grown	Chances of soiling and		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			
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 1st heat
				observe.
Poultry	All stages	High humidity		Frequent raking and liming of deep
				litter materials.
Pig	All stages	High humidity	*	Keep floor dry to avoid skin diseases.