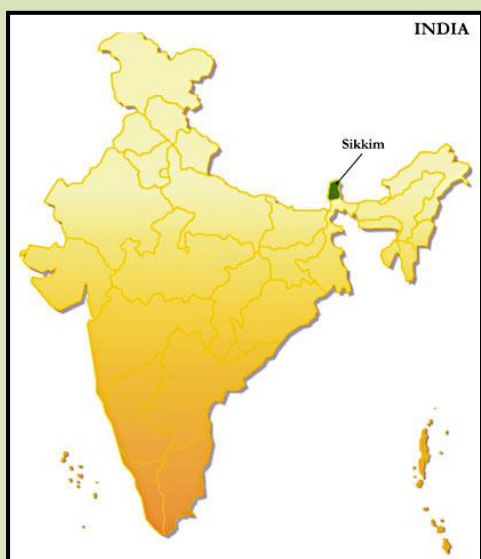




STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 23rd JULY-27th JULY"2014



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



ISSUED ON FRIDAY 22ND July 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 Gyalshing
- 4) South District with HQ at Namchi

Part I: Weather

Significant Past Weather in different districts during the period 18/7/14 TO 21/7/14

Weather Forecast for different districts for the period 23/7/14 to 27/7/14

North Sikkim

Mangan (AWS)

North Sikkim

Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	
18-07-2014	002.0	29.5	20.1	<ul style="list-style-type: none"> Generally Cloudy sky during the period 23rd July to 27th July is expected. Moderate rain is expected during the period 19th July to 23rd July. Wind from south-south-easterly to southerly with an average speed of 2-3 km/hr is expected. Maximum and minimum temperatures are expected to be around 27-29°C and 20°C respectively. Maximum and minimum relative humidity are expected to be 95-97% and 88-92% respectively.
19-07-2014	006.0	31.3	20.6	
20-07-2014	012.0	29.8	20.3	
21-07-2014	024.0	N/A	20.4	

East Sikkim

Gangtok

East Sikkim

Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	
18-07-2014	001.6	022.7	018.5	<ul style="list-style-type: none"> Generally Cloudy sky during the period 23rd July to 27th July is expected. Moderate rain is expected during the period 19th July to 23rd July. Wind from south easterly to southerly with an average speed of 1-2 km/hr is expected. Maximum and minimum temperatures are expected to be around 20-22°C and 18°C respectively. Maximum and minimum relative humidity are expected to be 95-97% and 88-92% respectively.
19-07-2014	016.5	024.3	018.8	
20-07-2014	016.6	023.3	018.7	
21-07-2014	010.7	021.0	018.6	

Significant Past Weather in different districts during the period 15/7/14 TO 17/7/14

Weather Forecast for different districts for the period 19/7/14 to 23/7/14

South Sikkim

Namthang

South Sikkim

Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	
18-07-2014	009.6	27	17.5	<ul style="list-style-type: none"> ☼ Generally Cloudy sky during the period 23rd July to 27th July is expected. ☼ Light to moderate rain is expected during the period 19th July to 23rd July. ☼ Wind from south easterly to southerly with an average speed of 1-2 km/hr is expected. ☼ Maximum and minimum temperatures are expected to be around 27-29°C and 19-21°C respectively. ☼ Maximum and minimum relative humidity are expected to be 92-95% and 85-90% respectively.
19-07-2014	000.0	29.5	18.5	
20-07-2014	002.5	28.5	18.6	
21-07-2014	003.8	N/A	17	

West Sikkim

Gyalshing

West Sikkim

Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	
18-07-2014	030.0	018.2	025.2	<ul style="list-style-type: none"> ☼ Generally Cloudy sky during the period 19th July to 23rd July is expected. ☼ Moderate rain is expected during the period 19th July to 23rd July. ☼ Wind from easterly to south easterly with an average speed of 1-3 km/hr is expected. ☼ Maximum and minimum temperatures are expected to be around 22-25°C and 18°C respectively. ☼ Maximum and minimum relative humidity are expected to be 95-97% and 88-92% respectively.
19-07-2014	023.0	018.2	027.3	
20-07-2014	013.0	018.5	027.1	
21-07-2014	005.0	017.8	N/A	

AGRO-METEREOLOGICAL ADVISORIES

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Field crops			
Maize	Maturity/ Harvesting	Look for incidence of cob borer.	<ul style="list-style-type: none"> Remove damaged cobs from plant. Avoid water stagnation by providing proper drainage to prevent the crop loss and harvest mature cobs for grain purpose. Drying of maize grains properly which is kept for seed.
Upland rice	Seedling		<ul style="list-style-type: none"> Weeding and thinning may be done.
Rice	Transplanting/ vegetative stage		<ul style="list-style-type: none"> Transplanting of healthy seedling @ 2 seedlings per hill should be done at the earliest Weeded out the unwanted plant from the field and kept on soil surface to conserve the soil moisture. Maintain optimum water level in rice fields. Avoid drying of fields.
Pahenlo dal (urid bean)	Land preparation		<ul style="list-style-type: none"> 2-3 ploughing followed by leveling the land. Apply FYM or compost by mixing thoroughly in the soil one week before sowing. Prepare ridge and furrow.
Finger millet	Land preparation/ Transplanting		<ul style="list-style-type: none"> Make the raised bed of 15 cm height to prevent the water stagnation for raising the nursery. Finish nursery sowing of Kodo millet. If nursery is ready than before transplanting, seedling should be treated with <i>Azotobacter</i> in the ratio of 1:10 or 2.5 kg/ha each of in 2000 litres of water. After that dip the roots of seedlings in suspension and keep than immersed for about 20 minutes and transplant the 25-30 days old seedling. Transplant seedling in main field
Soybean/ Groundnut	Sowing/ vegetative stage		<ul style="list-style-type: none"> Complete sowing of Soybean. Sow in raised terraces Drain excessive water from field Make the raised bed to prevent the water stagnation for sowing of crop. Complete the sowing of crop as earliest with the seed rate of about 70-80kg per hectare. Seed should be treated with <i>Rhizobium</i> <i>Azotobacter</i> and <i>Azospirillum</i>. The amount of culture should be 200gm each per 10 Kilogram of seed. First hand weeding followed by earthing up should be done at 20-25DAS. Hand

			weeding should be done to reduce the weed pressure and kept the weeds on surface as a mulch to check the soil erosion.
Black gram	Planting time		✳ Sowing of blackgram should be done earliest with the seed rate of 12-15 kg/ha at the row to row spacing of 25-30 cm and plant to plant spacing of 5-10cm.
Water Harvesting			✳ Conserve rain water by used of mulching materials, digging of ponds, Jalkund <i>etc.</i>

Horticultural crops

Okra	Flowering	Occurrence of blister beetle	<ul style="list-style-type: none"> ✳ Weeding should be done. ✳ Manual collection and destruction of insects.
Cucurbits	Fruiting		✳ Staking of plants should be done.
Dalley Chilli	Flowering & Fruiting		✳ Earthing up of the plants should be done to avoid the lodging.
Cow pea		Occurrence of blister beetle.	✳ Manual collection and destruction of insects.
Large cardamom			✳ One spry of Neem oil @ 3 ml/l is advisable to reduce infestation of insect pests.
Ginger	Vegetative	Bacterial wilt/soft rot	<ul style="list-style-type: none"> ✳ Remove the infected plants and burn it. drench with 0.3% COC or Bordeaux mixture 1% in the infected field ✳ Weeding and earthing up should be carried out.
Tomato	Flowering	Late blight	✳ Remove the infected leaves and spray COC 0.25% at weekly intervals

Animal Sciences

Yak , Cattle and Tibetan Sheep	Plenty of green posture available on grazing field	There may be chances of bloat	✳ Drench edible oil about 150 ml to Yak and cattle and 25-30 ml to Sheep and also offer salt to all animals
Cattle, Yak, Buffalo, Goat and Tibetan Sheep	Favorable condition for worms/larval infection to ruminants	Ensure de-worming of animals as well as posture treatment	✳ De-worm the animal with broad spectrum anti-helminthes bolus/tabs
Poultry	High humidity and less sunlight hour may favors coccidiosis in poultry	Racking/frequent turning of bedding materials along with liming of the bedding materials	✳ Coccidiostate should be mixed in drinking water of poultry