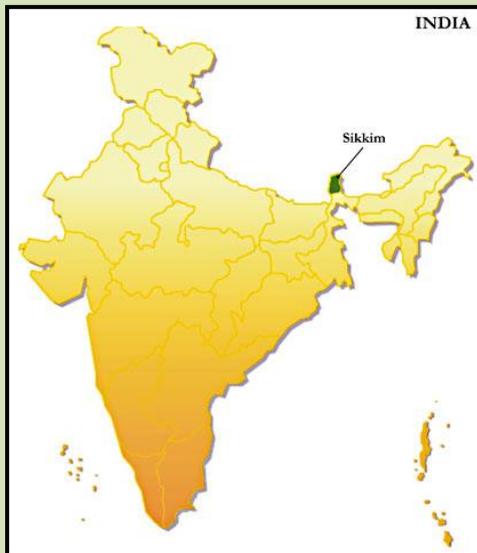




STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 23rd JULY-27th JULY 2014



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 Gyalsing
- 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^oC and 19-21^oC 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^oC and 18^oC 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 (urd 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 Rhizobium Azotobacter and Azospirillum. 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 | * 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 | * 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 |