

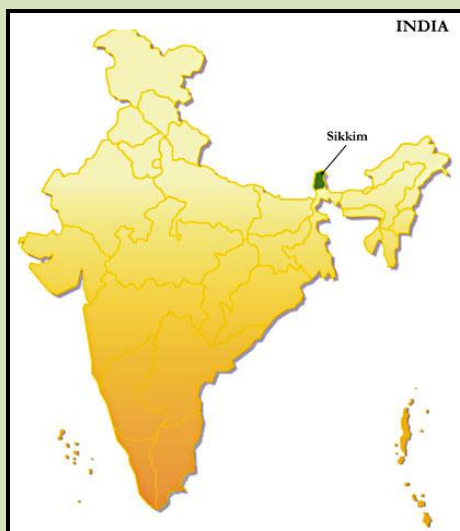


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD:



25TH SEPTEMBER to 28TH SEPTEMBER'2015

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



ISSUED ON FRIDAY 25TH SEPTEMBER'2015

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 (PTO)				North Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	Moderate	Light	Light	Light	Very Light
22-9-2015	006	27.0	17.3	Wind (Km/Hr) (Speed/ Dir)	3(S)	3(SSE)	3(S)	2(S)	2(S)
23-9-2015	000	25.0	17.2	Temperature (Min-Max)	17 - 27°C	17 - 27°C	17 - 28°C	17 - 28°C	17 - 27°C
24-9-2015	005	25.1	16.1	RH (Min- Max)	78 - 92%	76 - 90%	74 - 88%	72 - 86%	68 - 86%

Gangtok				East Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	Moderate	Light	Light	Light	Very Light
22-9-2015	004	20.1	17.2	Wind (Km/Hr) (Speed/ Dir)	2(SE)	3(ESE)	3(SSE)	2(ESE)	2(E)
23-9-2015	004	20.4	17.1	Temperature (Min-Max)	17 - 22°C	17 - 23°C	17 - 23°C	16 - 23°C	16 - 22°C
24-9-2015	034	19.6	17.8	RH (Min- Max)	76 - 92%	74 - 90%	70 - 88%	68 - 84%	68 - 84%

Namthang				South Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Cloudy
				Rainfall	Light	Light	Light	Light	Very Light
22-9-2015	006	25.5	19.5	Wind (Km/Hr) (Speed/ Dir)	3(SE)	3(ESE)	2(S)	3(ESE)	2(ESE)
23-9-2015	000	28.0	19.0	Temperature (Min-Max)	19 - 27°C	19 - 28°C	18 - 28°C	18 - 28°C	19 - 27°C
24-9-2015	052	25.5	19.5	RH (Min- Max)	76 - 90%	74 - 90%	68 - 88%	66 - 86%	66 - 86%



Gyalshing (AWS)				West Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	Light	Light	Light	Light	Very Light
22-9-2015	011	22.9	17.2	Wind (Km/Hr) (Speed/ Dir)	3(SE)	2(E)	3(SSW)	2(E)	2(ESE)
23-9-2015	001	24.2	17.7	Temperature (Min-Max)	17 - 24°C	17 - 25°C	17 - 25°C	16 - 25°C	16 - 24°C
24-9-2015	014	21.2	17.7	RH (Min- Max)	76 - 92%	74 - 90%	70 - 88%	68 - 84%	66 - 84%



Part II





AGRO-METEOREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- ❖ Preventive spray and soil drenching with copper oxychloride @2.5 g/l of water at 7-10 days intervals.
- ❖ Spraying of plant protection biopesticides on bright sunny day.
- ❖ Nursery should be raised for early season cole crops (cabbage, cauliflower, broccoli), onion, raya saag etc. under protected condition.
- ❖ Ensure proper drainage to avoid water logging especially for ginger, turmeric and kharif vegetables.
- ❖ Avoid feeding of damp and foul smelling feed to all livestock and poultry.
- ❖ De-worming with Fenbendazole @ 10 mg / kg body weight.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Rice	Vegetative	Leaf folder 	<ul style="list-style-type: none"> ❖ Proper maintenance of field channel and bunds are necessary to utilize the rain water. ❖ Weeding should be done where crop is in vegetative stage (20-25 days after planting). ❖ Spray neem based formulation (1500ppm) @ 3ml per litre of water for controlling leaf folder. ❖ Uprooted weeds may be left in between rows to decompose in standing flood water. Weeds may be incorporated into the soil under SRI. ❖ Maintain proper drainage for good tillering.
Rice bean	Vegetative/ Pod formation	Blister Beetle 	<ul style="list-style-type: none"> ❖ Proper staking should be done. ❖ Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done.

		Legume pod borer	
Soybean	Flowering/ Pod formation		<ul style="list-style-type: none"> ◆ Weeding should be done. ◆ Maintain optimum plant population. ◆ Uproot diseased plants.
Black gram	Vegetative/ Pod formation	Blister Beetle 	<ul style="list-style-type: none"> ◆ To avoid water logging proper drainage should be maintained. ◆ Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. ◆ Weeding should be done.
Finger Millet	Vegetative/ Grain formation		<ul style="list-style-type: none"> ◆ Proper maintenance of field channel and bunds are necessary to utilize the rain water. ◆ Weeding should be continued.
Tomato	Flowering/ fruiting	Late Blight 	<ul style="list-style-type: none"> ◆ Proper drainage should be maintained. ◆ Removal of infected leaves/ plant and drenching/ spray with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1%. ◆ Harvesting of mature green tomato should be done for distant market and pinkish/ reddish for local market.
Early winter vegetables	Nursery		<ul style="list-style-type: none"> ◆ Nursery can be raised for early winter vegetables like cabbage, cauliflower, broccoli, onion, raya saag etc. ◆ Seed should be sown in moist soil in raised nursery bed of size 1x5m under protected condition. ◆ FYM @ 2kg/ sqm, neem cake @ 200g/sqm, Trichoderma @2% should be incorporated in soil before sowing seed. ◆ Regular watering in nursery is recommended.
Dalley chilli/ Red Cherry pepper	Flowering/ fruiting	Fruit fly	<ul style="list-style-type: none"> ◆ Proper drainage should be maintained. ◆ Collection and destruction of infested fruit. ◆ Installation of para pheromone trap (cue lure) @ 16-20 traps/ha. ◆ Regular harvesting should be done to improve the yield.

Large cardamom	Maturity		<ul style="list-style-type: none"> ◆ Removal and burying of blight infected leaves. ◆ Weeding/ removal of infected tillers should be done. ◆ Removal of infected leaves/ plant and spray with copper oxychloride @ 0.25 %.
Ginger	Vegetative	Soft rot	<ul style="list-style-type: none"> ◆ Proper drainage should be maintained. ◆ Weeding is recommended. ◆ Removal of infected leaves/ plant and drenching/ spray with copper oxychloride @ 0.25 %.
Okra	Flowering/ fruiting	Blister beetle 	<ul style="list-style-type: none"> ◆ Proper drainage should be maintained. ◆ Regular weeding should be done and followed by earthing up. ◆ Collection and destruction of Blister beetles and spraying of Neem oil @ 3ml/lit should be done.
Sikkim Mandarin	Vegetative / active fruit growth	Scab  Leaf miner  Aphid 	<ul style="list-style-type: none"> ◆ Proper drainage should be maintained to avoid water stagnation. ◆ Basin should be weed free. ◆ Removal of scab infected leaves and spray copper oxychloride @ 0.25 %. ◆ Spray of petroleum oil based agro spray @ 10ml/l for the management of aphid and leaf miner. ◆ Regular monitoring for trunk borer infestation.
Kiwifruit	Active fruit growth		<ul style="list-style-type: none"> ◆ Proper drainage should be maintained to avoid water stagnation. ◆ Basin should be weed free. ◆ Preventive spray of copper oxychloride @ 0.25 % and petroleum

			oil based agro spray @ 10 ml/l.
Animal Sciences			
Tibetan Sheep	Production stage		<ul style="list-style-type: none"> ◆ Spraying of ectoparasiticide. ◆ Feeding of concentrate feed along with mineral mixture and salt.
Yak	Production stage		<ul style="list-style-type: none"> ◆ Feeding of concentrate feed along with mineral mixture and salt. ◆ Spraying of ectoparasiticide.
Cattle, Sheep and Goat	All stages		<ul style="list-style-type: none"> ◆ Chances of coming into estrus so farmers are advised to look for heat sign especially during early morning or late evening and ensure breeding of the animal after 12 hr of 1st heat observe. ◆ Feeding of concentrate feed along with jaggery, mineral mixture and salt. ◆ Periodic application of fly repellents and/ or netting of dung pit is recommended.
Cattle	Periparturient		<ul style="list-style-type: none"> ◆ Balanced feeding of dairy animals and allow calf suckling immediately after parturition. ◆ Full hand milking should be practiced. ◆ Frequent incomplete milking at interval of 4hrs should be practiced after parturition for minimum 1 week.
Poultry	All stages	Coccidiosis	<ul style="list-style-type: none"> ◆ 16 hrs of light (natural and electrical) should be provided to adult birds for optimum egg production. ◆ Frequent raking and liming of deep litter materials. ◆ Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis. ◆ Maintenance of brooder temperature for chicks with the help of electrical bulbs for initial one month. ◆ Ranikhet vaccination at 5th day and at 30th day of age.

			<ul style="list-style-type: none"> ◆ Calcium and multi vitamin supplementation is strongly recommended to optimize egg production. ◆ Spraying of ectoparasiticide @ 1% deltamethrin/ cypermethrin.
Pig	All stages	Swine fever	<ul style="list-style-type: none"> ◆ Keep floor dry to avoid skin diseases. ◆ Swine fever vaccine at the age of 8-10 week is recommended. ◆ Critical heat detection in early morning and late evening is recommended. ◆ Feed 5-10% green fodder of their diet.