

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



11TH SEPTEMBER to 14TH SEPTEMBER'2015

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





ISSUED ON FRIDAY 11TH 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	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	Light	Very Light	Light	Light	Light
8-9-2015	000	29.0	18.6	Wind (Km/Hr) (Speed/ Dir)	2(SW)	3(W)	3(WSW)	4(S)	3(S)
9-9-2015	000	30.0	18.3	Temperature (Min-Max)	19 - 28°C	19 - 29°C	19 - 27°C	19 - 27°C	19 - 29°C
10-9-2015	000	30.1	19.2	RH (Min- Max)	67 - 83%	68 - 84%	67 - 84%	69 - 86%	70 - 82%

Congtoly			East Sikkim Forecast						
	Gangtok			Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	Light	Light	Light	Light	Very Light
8-9-2015	001	23.2	17.4	Wind (Km/Hr) (Speed/ Dir)	2(SSE)	2(WNW)	3(S)	3(E)	2(S)
9-9-2015	000	23.7	18.4	Temperature (Min-Max)	17 - 22°C	17 - 23°C	17 - 23°C	17 - 22°C	17 - 23°C
10-9-2015	000	24.8	18.0	RH (Min- Max)	77 - 92%	74 - 90%	74 - 89%	75 - 92%	70 - 87%

Namthang			South Sikkim Forecast						
			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	Light	Light	Light	Light	Very Light
8-9-2015	000	29.0	20.0	Wind (Km/Hr) (Speed/ Dir)	2(S)	3(W)	3(SW)	4(ESE)	3(SSE)
9-9-2015	000	28.5	20.5	Temperature (Min-Max)	20 - 28°C	20 - 28°C	20 - 28°C	20 - 28°C	20 - 29°C
10-9-2015	000	29.0	20.5	RH (Min- Max)	74 - 88%	72 - 87%	69 - 86%	73 - 89%	67 - 82%

Cyclobing (AMC)			West Sikkim Forecast						
	Gyalshing (AWS)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	Light	Light	Light	Light	Light
8-9-2015	000	N/A	16.4	Wind (Km/Hr) (Speed/ Dir)	2(S)	3(WNW)	2(W)	4(SE)	3(SE)
9-9-2015	000	26.3	18.2	Temperature (Min-Max)	17 - 25°C	17 - 25°C	17 - 24°C	17 - 24°C	17 - 26°C
10-9-2015	N/A	27.0	N/A	RH (Min- Max)	80 - 89%	79 - 90%	75 - 88%	78 - 90%	69 - 84%

Part II

AGRO-METEREOLOGICAL 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	 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 Legume pod borer	 Proper staking should be done. Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done.

Soybean	Flowering/			Weeding should be done.
	_		\limits	Maintain optimum plant population.
	Pod formation		\oint\oint\oint\oint\oint\oint\oint\oint	Uproot diseased plants.
Black gram	Vegetative/	Blister Beetle		To avoid water logging proper
	Pod formation			drainage should be maintained.
	1 ou formation		\oint\oint\oint\oint\oint\oint\oint\oint	Collection and destruction of Blister
		TANT AG		beetles and spraying of Neem oil
				@3ml/lit should be done.
			~	Weeding should be done
Finger Millet	Vegetative/			
	Grain formation			Proper maintenance of field channel
				and bunds are necessary to utilize the
				rain water.
		T		Weeding should be continued.
Tomato	Flowering/	Late Blight		Proper drainage should be maintained.
	fruiting		~	Removal of infected leaves/ plant and drenching/ spray with copper
	_			drenching/ spray with copper oxychloride @ 0.25 % or Bordeaux
				mixture @ 1%.
		18/18/17/19		Harvesting of mature green tomato
				should be done for distant market and
				pinkish/ reddish for local market.
Early winter	Nursery			Nursery can be raised for early winter
vegetables				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/	Flowering/	Fruit fly	*	Proper drainage should be maintained.
Red Cherry	fruiting			Collection and destruction of infested
pepper			_	fruit.
				1 1 1
				(cue lure) @ 16-20 traps/ha. Regular harvesting should be done to
			*	improve the yield.
				improve the yield.

Large cardamom	Maturity		 	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
Ginger	Vegetative	Soft rot	* * *	@ 0.25 %. 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	* * *	-
Sikkim Mandarin	Vegetative / active fruit growth	Scab Leaf miner Aphid	♦♦♦ ♦	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			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.

Tibetan Sheep	Production stage		Spray	ring of ectoparasiticidal.
•			1	ng of concentrate feed along
				mineral mixture and salt.
Yak	Production stage		Feedi	ng of concentrate feed along
			with 1	mineral mixture and salt.
			Spray	ring of ectoparasiticidal.
Cattle, Sheep	All stages		Chane	ces of coming into estrus so
and Goat			farme	ers are advised to look for heat
			sign o	especially during early morning
				te evening and ensure breeding
				e animal after 12 hr of 1 st heat
			obser	
				ng of concentrate feed along
				jaggery, mineral mixture and
			salt.	1. 1 6.6. 11
				dic application of fly repellents
				or netting of dung pit is
Caula	Dowin outsoni out			nmended.
Cattle	Periparturient			aced feeding of dairy animals
				allow calf suckling immediately parturition.
				hand milking should be
			practi	Č
			-	ent incomplete milking at
			_	val of 4hrs should be practiced
				parturition for minimum 1 week.
Poultry	All stages	Cocciodiosis		s of light (natural and electrical)
				d be provided to adult birds for
			optim	num egg production.
			Frequ	ent raking and liming of deep
			litter	materials.
			Inclus	sion of turmeric powder @
			10g/k	g feed for prevention of
			cocci	odiosis.
				tenance of brooder temperature
				nicks with the help of electrical
				for initial one month.
				thet vaccination at 5 th day and at
			anth.	
				lay of age.
			Calcin	um and multi vitamin
			Calcing Supple	•

			•	Spraying of ectoparasiticidal @ 1% deltamethrin/ cypermethrin.
Pig	All stages	Swine fever	•	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.