

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



15TH SEPTEMBER to 17TH SEPTEMBER'2015

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





ISSUED ON TUESDAY 15TH 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						
Data	Date Rainfall M (mm)	Max. Temp	Min. Temp (°C)	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date		(°C)		Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
11-9-2015	000	27.1	19.3	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate		
12-9-2015	005	27.2	18.2	Wind (Speed/ Dir)	3Km/Hr (S)	4Km/Hr (S)	2Km/Hr (SW)	2Km/Hr (WSW)	3Km/Hr (SSW)		
13-9-2015	000	26.1	18.4	Temperature (Min-Max)	18 - 28°C	18 - 28°C	18 - 28°C	18 - 28°C	18 - 27°C		
14-9-2015	045	28.1	17.2	RH (Min-Max)	62 - 88%	63 - 90%	62 - 85%	58 - 80%	64 - 88%		

Gangtok				East Sikkim Forecast						
D. i	Rainfall	Max. Temp (°C)	Min. Temp (ºC)	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	(mm)			Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
11-9-2015	005	21.1	18.0	Rainfall	Moderate	Moderate	Light	Moderate	Moderate	
12-9-2015	000	21.8	17.6	Wind (Speed/ Dir)	2Km/Hr (S)	2Km/Hr (S)	2Km/Hr (WSW)	2Km/Hr (SSW)	2Km/Hr (SSE)	
13-9-2015	005	21.2	17.4	Temperature (Min-Max)	17 - 22°C	17 - 23°C	17 - 23°C	17 - 22°C	17 - 21°C	
14-9-2015	022	21.4	17.0	RH (Min-Max)	80 - 94%	78 - 92%	75 - 90%	75 - 90%	82 - 95%	

	Namt	hang		South Sikkim Forecast					
Data	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	(mm)	(°C)	(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
11-9-2015	000	27.5	20.5	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate
12-9-2015	001	28.5	20.0	Wind (Speed/ Dir)	3Km/Hr (S)	3Km/Hr (S)	2Km/Hr (WSW)	2Km/Hr (WSW)	2Km/Hr (S)
13-9-2015	000	29.0	19.5	Temperature (Min-Max)	19 - 28°C	19 - 28°C	19 - 29°C	19 - 29°C	19 - 28°C
14-9-2015	025	29.0	19.0	RH (Min-Max)	67 - 90%	70 - 90%	68 - 82%	63 - 83%	67 - 88%
Gyalshing (AWS)				West Sikkim Forecast					
Data	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	(mm)	n) (°C)	(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy

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Data	Rainfall	Max. Temp Min. Temp		Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Date (mm) ((°C)	(°C) Sky	Generally	Generally	Generally	Generally	Generally		
				Condition	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	
11-9-2015	000	23.9	17.7	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate	
12-9-2015	006	25.0	17.7	Wind (Speed/ Dir)	2Km/Hr (S)	2Km/Hr (SSW)	2Km/Hr (WSW)	2Km/Hr (NW)	2Km/Hr (W)	
13-9-2015	003	24.8	17.2	Temperature (Min-Max)	17 - 24°C	17 - 25°C	17 - 25°C	17 - 25°C	17 - 24°C	
14-9-2015	039	24.5	17.2	RH (Min-Max)	75 - 90%	73 - 90%	71 - 85%	66 - 85%	73 - 88%	

<u>Part II</u>

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	 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/		• Weeding s	should be done.
	Pod formation			optimum plant population.
	Pod formation		Uproot dis	seased plants.
Black gram	Vegetative/	Blister Beetle	To avoid	d water logging proper
	Pod formation		U	hould be maintained.
	i ou formation	and a start of the		and destruction of Blister
		33 3 4		nd spraying of Neem oil should be done.
		A AN A		should be done.
Finger Millet	Vegetative/			
C .	Grain formation		Proper ma	aintenance of field channel
			and bunds	are necessary to utilize the
			rain water	
				should be continued.
Tomato	Flowering/	Late Blight	-	inage should be maintained. of infected leaves/ plant and
	fruiting		drenching	
			U	de @ 0.25 % or Bordeaux
			mixture @	
		STREE AST	Harvesting	g of mature green tomato
				done for distant market and
			1	eddish for local market.
Early winter	Nursery		-	an be raised for early winter
vegetables			e	s like cabbage, cauliflower, onion, raya saag etc.
				Ild be sown in moist soil in
				sery bed of size 1x5m under
			protected	condition.
				2kg/ sqm, neem cake @
				, Trichoderma @2% should
				orated in soil before sowing
			seed. Regular	watering in nursery is
			recommen	.
Dalley chilli/	Flowering/	Fruit fly		inage should be maintained.
Red Cherry	fruiting		-	and destruction of infested
pepper			fruit.	
				n of para pheromone trap
				@ 16-20 traps/ha.
			Regular h improve tl	arvesting should be done to
			impiove u	lie yleiu.

Large	Maturity			
cardamom				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		Proper drainage should be maintained.
				Weeding is recommended.
				Removal of infected leaves/ plant and
				drenching/ spray with copper
				oxychloride @ 0.25 %.
Okra	Flowering/	Blister beetle		1
	fruiting	EXC Cost EX		Regular weeding should be done and
		A Good a good		followed by earthing up.
		8 8 8 B	٨	Collection and destruction of Blister
		TO PALS VIE		beetles and spraying of Neem oil
				@3ml/lit should be done.
Sikkim	Vegetative /	Scab		
Mandarin	active fruit			to avoid water stagnation.
	growth		۲	Basin should be weed free.
	8		٨	Removal of scab infected leaves and
		7ST GO MAN		spray copper oxychloride @ 0.25 %.
			۲	Spray of petroleum oil based agro
				spray @ 10ml/l for the management of
				aphid and leaf miner.
		Leaf miner	٨	Regular monitoring for trunk borer
				infestation.
		a lot		
		Aphid		
Kiwifruit	Active fruit			Proper drainage should be maintained
Kiwiifult			V	1 0
	growth			to avoid water stagnation.
				Basin should be weed free.
				Preventive spray of copper
				oxychloride @ 0.25 % and petroleum

	Γ	Ι	
			oil based agro spray @ 10 ml/l.
Animal Scier		1	
Tibetan Sheep	Production stage		 Spraying of ectoparasiticidal.
			Feeding of concentrate feed along with minored minture and calt
Yak	Droduction stage		with mineral mixture and salt.Feeding of concentrate feed along
I dK	Production stage		with mineral mixture and salt.
			 Spraying of ectoparasiticidal.
			• Spraying of cotoparasitionali
Cattle, Sheep	All stages		Chances of coming into estrus so
and Goat			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 1 st 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		Salanced feeding of dairy animals
	-		and allow calf suckling immediately
			after parturition.
			\clubsuit Full hand milking should be
			practiced.
			Frequent incomplete milking at
			interval of 4hrs should be practiced
Poultry	All stages	Cocciodiosis	after parturition for minimum 1 week. 16 hrs of light (natural and electrical)
Tourry	All stages	Cocciouiosis	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
			cocciodiosis.
			Maintenance of brooder temperature
			for chicks with the help of electrical
			bulbs for initial one month.
			Ranikhet vaccination at 5 th day and at 30 th day of age.
			50 day of age.

				Calcium and multi vitamin
				supplementation is strongly
				recommended to optimize egg
				production.
			٨	Spraying of ectoparasiticidal @ 1%
				deltamethrin/ cypermethrin.
Pig	All stages	Swine fever	۲	Keep floor dry to avoid skin diseases.
			٨	Swine fever vaccine at the age of 8-
				10 week is recommended.
			٨	Critical heat detection in early
				morning and late evening is
				recommended.
			۲	Feed 5-10% green fodder of their
				diet.