

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



PERIOD: 10th to 13th JULY 2015

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





ISSUED ON "FRIDAY 10TH JULY 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 (°C)	Sky Condition	Cloudy	Cloudy	Generally Cloudy	Generally Cloudy	Cloudy	
Date	(mm)	(°C)		Rainfall	Rather Heavy	Moderate	Moderate	Moderate	Moderate	
7-7-2015	022	25.2	17.4	Wind (Km/Hr) (Speed/ Dir)	2(S)	2(WSW)	2(S)	3(SSW)	3(W)	
8-7-2015	016	29.0	17.5	Temperature (Min-Max)	19 - 25°C	19 - 26°C	19 - 27°C	19 - 26°C	19 - 25°C	
9-7-2015	009	28.1	20.3	RH (Min- Max)	86 - 94%	83 - 96%	84 - 94%	84 - 94%	86 - 95%	

	Gangtok			East Sikkim Forecast					
				Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Cloudy	Cloudy	Generally Cloudy	Generally Cloudy	Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	Rather Heavy	Moderate	Moderate	Moderate	Rather Heavy
7-7-2015	034	22.0	17.9	Wind (Km/Hr) (Speed/ Dir)	2(S)	2(SSE)	3(SE)	2(SE)	3(SW)
8-7-2015	023	22.6	17.6	Temperature (Min-Max)	18 - 20°C	18 - 21°C	18 - 22°C	18 - 22°C	18 - 21°C
9-7-2015	009	22.3	17.6	RH (Min- Max)	85 - 96%	84 - 96%	85 - 94%	83 - 94%	84 - 95%

Namthana			South Sikkim Forecast						
	Namthang			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Cloudy	Cloudy	Generally Cloudy	Cloudy	Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	Rather Heavy	Moderate	Moderate	Moderate	Rather Heavy
7-7-2015	012	27.5	19.5	Wind (Km/Hr) (Speed/ Dir)	2(S)	2(S)	3(SE)	3(SSE)	2(WSW)
8-7-2015	015	29.5	19.5	Temperature (Min-Max)	20 - 23°C	20 - 24°C	20 - 25°C	20 - 25°C	20 - 24°C
9-7-2015	008	28.0	19.5	RH (Min- Max)	86 - 96%	87 - 95%	84 - 95%	83 - 95%	88 - 96%

	Gyalshing (AWS)			West Sikkim Forecast						
				Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Cloudy	Cloudy	Generally Cloudy	Generally Cloudy	Cloudy	
Date	(mm)	(°C)	(°C)	Rainfall	Rather Heavy	Moderate	Moderate	Moderate	Moderate	
7-7-2015	025	25.3	18.0	Wind (Km/Hr) (Speed/ Dir)	2(SE)	2(SSE)	3(SSE)	2(S)	3(NW)	
8-7-2015	009	26.1	17.4	Temperature (Min-Max)	18 - 20°C	18 - 21°C	18 - 22°C	18 - 22°C	18 - 21°C	
9-7-2015	023	25.2	17.6	RH (Min- Max)	88 - 96%	85 - 94%	84 - 95%	85 - 93%	85 - 95%	

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.
- Ensure proper drainage to avoid water logging.
- 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			
Maize	Harvesting		 Harvesting of maize for green cobs should be done in the morning hours. After harvest of green cobs, stover may be used as livestock fodder. Maintain proper drainage for maize crop being grown for grain and seed purpose.
Rice	Nursery/Sowing/ Transplanting		 Land should be prepared for raising of rice nursery/direct sowing/transplanting. ◆ Proper maintenance of field channel and bunds are necessary to utilize the rain water. ◆ Well decomposed FYM/poultry manure/ vermicompost or other available organic sources of nutrients may be broadcast and incorporated by ploughing.
Rice bean	Flowering/Grain filling/ Physiological maturity	Blister Beetle	 Ensure proper drainage to avoid water logging. Mature pod should be harvested and kept for sun drying. Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done.

		Legume pod borer	
Soybean	Sowing/ Vegetative stage		 Well decomposed FYM @ 5 t/ha or vermicompost @ 1 t/ha and dolomite @ 2 t/ha should be incorporated in the soil at the time last ploughing. To avoid water logging proper drainage should be maintained. Before sowing seed should be inoculated with <i>Rhizobium</i> culture @ 20 g/kg seed Timely sowing on ridges is recommended.
Black gram/ Green gram	Sowing/vegetative stage	Blister Beetle	 Well decomposed FYM @ 5 t/ha or vermicompost @ 1 t/ha and dolomite @ 2 t/ha should be incorporated in the soil at the time last ploughing. To avoid water logging proper drainage should be maintained. Before sowing seed should be inoculated with <i>Rhizobium</i> culture @ 20 g/kg seed. Timely sowing on ridges is recommended. Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done.
Finger Millet	Nursery/ Transplanting		 Land should be prepared for raising of finger millet nursery /transplanting. Proper maintenance of field channel and bunds are necessary to utilize the rain water. Well decomposed FYM/poultry manure/ vermicompost or other available organic sources of nutrients may be broadcast and incorporated by ploughing.
Tomato	Flowering/ fruiting	Late Blight	 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.
Gourds (Bottle/	Flowering/	Fruit fly	\lambda	Proper drainage should be maintained.
bitter/ sponge/	fruiting			Collection and destruction of infested
ridge)				fruit.
Trage)				Installation of para pheromone trap
			Ť	(cue lure) @ 16-20 traps/ha.
				-
			~	Regular harvesting should be done to
D 11 1:11:/	T1 ' /	F '. G	_	improve the yield.
Dalley chilli/	Flowering/	Fruit fly		Proper drainage should be maintained.
Red Cherry	fruiting		*	Collection and destruction of infested
pepper				fruit.
				Installation of para pheromone trap
				(cue lure) @ 16-20 traps/ha.
				Regular harvesting should be done to
				improve the yield.
Large	Vegetative/			Planting of disease free sucker should
cardamom	floral bud			be done.
	formation		\oint{\oint}	Apply well decomposed FYM @
				2kg/ vermicompost @ 200g and neem
				cake @ 150g per clump.
				Removal and burying of blight
			Ť	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 and second mulching is
				recommended.
			*	Removal of infected leaves/ plant and
				drenching/ spray with copper
				oxychloride @ 0.25 %.
Okra	Vegetative		\oint{\oint}	Proper drainage should be maintained.
				Regular weeding should be done and
				followed by earthing up.
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Sikkim	Vegetative /	Scab	~	Proper drainage should be maintained
Mandarin	active fruit	38 Aug 396	_	to avoid water stagnation.
	growth		◇	Basin should be weed free.
		26-	*	Avoid FYM application near the tree
				trunk.
				To fertilize the crop, well decomposed
				FYM @ 10-20kg /plant should be
				applied in the basin of trees.

		Leaf miner Aphid	*	Removal of infected leaves and spray with 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	Vegetative / active fruit growth		*	Proper drainage should be maintained to avoid water stagnation. Basin should be weed free. Avoid FYM application near the tree trunk. To fertilize the crop, well decomposed FYM @ 10-20kg /plant should be applied in the basin of trees. Preventive spray with copper oxychloride @ 0.25 % and petroleum oil based agro spray @ 10 ml/l.
Animal Scien	nces			<u> </u>
Tibetan Sheep	Full wool grown		 	Shearing is recommended on bright sunny day. Deworming of newly born lambs and ewes should be done with Fenbendazole @ 10mg/kg body weight.
Yak	Full grown hair			Trimming of full grown coarse hair is recommended. Deworming of newly born calves and dams should be done with Fenbendazole @ 10mg/kg body weight. Feeding of concentrate feed along with mineral mixture and salt.
Cattle, Sheep and Goat	All stages		•	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 1 st heat observe.

			Feeding of colostrums within 2 hrs of birth.
			Feeding of concentrate feed along
			with jaggery, mineral mixture and salt.
			Periodic application of fly repellents
			and/ or netting of dung pit is
		~	recommended.
Poultry	All stages	Cocciodiosis	♦ 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
			cocciodiosis.
			Maintenance of brooder temperature
			for chicks with the help of electrical
			bulbs.
			Ranikhet vaccination at 5 th day and at
			30 th day of age.
			Calcium and multi vitamin
			supplementation is strongly
			recommended to optimize egg
			production.
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.

<u>Part II</u>

AGRO-METEREOLOGICAL ADVISORIES