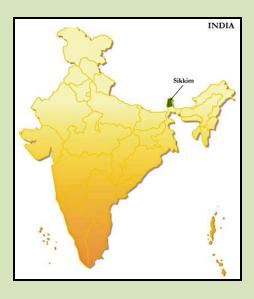


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 15TH DECEMBER to 17TH DECEMBER'2015

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





ISSUED ON TUESDAY 15TH DECEMBER'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							
Raint	Rainfall	Max. Temp (°C)	Min. Temp (°C)	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		
11/12/2015	000	19.1	09.2	Rainfall	No rain	No rain	No rain	Very Light	Very Light		
12/12/2015	000	15.2	09.5	Wind (Speed/ Dir)	3Km/Hr (WSW)	4Km/Hr (WSW)	4Km/Hr (WSW)	2Km/Hr (W)	4Km/Hr (WSW)		
13/12/2015	000	17.1	08.3	Temperature (Min-Max)	7 - 16°C	8 - 16°C	7 - 15°C	7 - 15°C	7 - 15°C		
14/12/2015	000	18.0	09.2	RH (Min-Max)	66 - 84%	66 - 84%	69 - 86%	72 - 90%	75 - 90%		

Gangtok			East Sikkim Forecast							
Rainfall	Max. Temp	Day → Day 1 Day 2 Day 1	Day 3	Day 4	Day 5					
Date	(mm)	(°C)	(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
11/12/2015	000	13.7	08.7	Rainfall	No rain	No rain	No rain	Very Light	No rain	
12/12/2015	000	13.4	07.5	Wind (Speed/ Dir)	3Km/Hr (W)	4Km/Hr (WNW)	4Km/Hr (WNW)	4Km/Hr (W)	3Km/Hr (WNW)	
13/12/2015	000	13.3	06.7	Temperature (Min-Max)	6 - 11°C	6 - 11°C	6 - 11°C	6 - 11°C	6 - 12°C	
14/12/2015	000	11.7	07.8	RH (Min-Max)	64 - 82%	64 - 82%	62 - 82%	68 - 85%	68 - 85%	

	Namthang				South Sikkim Forecast						
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		
11/12/2015	000	17.5	08.0	Rainfall	No rain	No rain	No rain	No rain	No rain		
12/12/2015	000	17.0	07.5	Wind (Speed/ Dir)	3Km/Hr (W)	3Km/Hr (W)	4Km/Hr (W)	2Km/Hr (W)	2Km/Hr (WNW)		
13/12/2015	000	17.5	08.5	Temperature (Min-Max)	7 - 16°C	7 - 16°C	6 - 15°C	6 - 15°C	6 - 16°C		
14/12/2015	000	17.0	08.5	RH (Min-Max)	64 - 82%	62 - 80%	64 - 78%	68 - 85%	68 - 82%		

Gyalshing (AWS)			West Sikkim Forecast						
Rainfall Ma	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
11/12/2015	000	16.4	08.2	Rainfall	No rain				
12/12/2015	000	15.0	06.6	Wind (Speed/ Dir)	3Km/Hr (W)	4Km/Hr (W)	4Km/Hr (W)	2Km/Hr (W)	4Km/Hr (W)
13/12/2015	000	15.4	08.0	Temperature (Min-Max)	6 - 15°C	6 - 15°C	6 - 15°C	6 - 14°C	6 - 14°C
14/12/2015	N/A	14.4	N/A	RH (Min-Max)	64 - 82%	64 - 82%	63 - 82%	65 - 85%	65 - 85%

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.
- Mulching should be done through locally available biomass to conserve soil moisture for rabi crops.
- Jalkund should be covered with thatch to prevent evaporation losses.
- **Vermicompost pits should be covered with gunny bags / paddy straw/ dry forest litter to regulate the temperature.**
- Avoid feeding of damp and foul smelling feed to all livestock and poultry.
- De-worming with Fenbendazole @ 10 mg / kg body weight.
- Protect animals from cold by providing protective cover/ house and light.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Rice	Harvesting		 ♦ Harvesting should be done on sunny day atleast 15 cm above the ground for moisture conservation and no till pea and mustard/ toria sowing. ♦ After sun drying harvested paddy is recommended to be stored at ≤ 14% moisture.
Rice bean	Maturity/ Harvesting		Regular monitoring and periodic picking of mature pod should be done.
Black gram	Harvesting		 Periodic harvesting should be done when pod turns pale yellow colour. Harvested pods should be sun dried and after threshing grain be stored at < 8% moisture level.
Buckwheat	Sowing/ Thinning		 After field preparation FYM @ 2t/ha and vermicompost @ 1t/ ha should be applied. Sowing should be done in line at the spacing of 30x10cm. Thinning (removal of extra plants)

				should be done 10-15 days after
				sowing.
Mustard/	Sowing/		\line{\pi}	After field preparation FYM @ 2t/ha
	Thinning			and vermicompost @ 1t/ ha should be
Toria				applied.
				Sowing should be done in line at the
				spacing of 30x10cm.
				Alternatively, sowing can also be
				done immediately after harvesting of
				rice under no till condition in between
				the rows (zero till).
				Thinning (removal of extra plants)
				should be done 10-15 days after
77 . 11 /				sowing.
Vegetable pea/	Sowing/	14		Apply FYM @ 2t/ha and
Field pea	Gap filling			vermicompost @ 1t/ ha before sowing.
				Sowing should be done in line at the
			*	spacing of 30-40x10cm.
				Soil moisture should be maintained
				for proper germination.
		No till pea	\limits	Alternatively, sowing can also be
				done immediately after harvesting of
				rice under no till condition in between
				the rows (zero till).
				Gap filling should be done at the
				earliest to maintain the proper plant
				population.
Tomato	Flowering/	Late Blight		Removal of infected leaves/ plant and
	 Fruiting			drenching/ spray with copper
	β			oxychloride @ 0.25 % or Bordeaux
				mixture @ 1%.
			~	Harvesting of mature green tomato should be done for distant market and
				pinkish/ reddish for local market.
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Winter	Transplanting			Transplanting should be done in small
vegetables (Cole crops)				pits filled with well decomposed FYM @ 2-2.5 kg/sqm., neem cake @
(Cole crops)				200g/sqm. and <i>Trichoderma</i> @1-2
				g/sqm should be mixed in soil before
				transplanting.
			\limits	Regular watering in main field is
				recommended.
Dalley chilli/	Harvesting	Fruit fly		Collection and destruction of infested
Red Cherry				dropped fruits.
				Regular harvesting should be done to
				-

pepper				improve the yield.
Large cardamom	Post harvest crop management		•	Regular watering should be done at 15 days intervals. Regular monitoring for pest and disease incidence. Shade management with the proper lopping.
Ginger	Harvesting Seed		*	Identify healthy plants for seed rhizomes. Care should be taken during harvesting to avoid the mechanical injury in the rhizome.
Sikkim Mandarin	Fruit maturity/ Harvesting	Fruit drop	•	Collection of infected dropped fruit and buried in to soil. Harvesting should be done along with twig with two leaves. Diseased and senile branches should be removed.
Animal Scient Tibetan Sheep	nces		•	Feeding of concentrate feed along with mineral mixture and salt.
Yak			•	Feeding of concentrate feed along with mineral mixture and salt.
Cattle, Sheep and Goat				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 concentrate feed along with jaggery, mineral mixture and salt. Periodic application of fly repellents and/ or netting of dung pit are recommended.

Cattle			 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		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 for initial one month. Ranikhet vaccination at 5th day and at 30th day of age. Calcium and multi vitamin supplementation is strongly recommended to optimize egg production. 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.