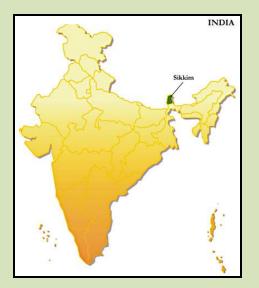


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 20TH NOVEMBER to 23TH NOVEMBER'2015



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





ISSUED ON FRIDAY 20TH NOVEMBER'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	Max. Temp	Min. Temp	Sky Condition	Mainly Clear	Mainly Clear	Partly Cloudy	Mainly Clear	Mainly Clear
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain	
17/11/2015	000	20.1	09.4	Wind (Km/Hr) (Speed/ Dir)	2(WNW)	2(WNW)	3(SW)	4(SW)	3(WNW)	
18/11/2015	000	20.4	10.2	Temperature (Min-Max)	12 - 22°C	12 - 22°C	11 - 22°C	11 - 21°C	11 - 21°C	
19/11/2015	000	20.5	10.5	RH (Min- Max)	48 - 76%	48 - 76%	46 - 72%	46 - 70%	46 - 70%	

	Gangtok			East Sikkim Forecast						
				Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Mainly Clear	Mainly Clear	Partly Cloudy	Partly Cloudy	Mainly Clear	
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain	
17/11/2015	Tr	16.6	11.2	Wind (Km/Hr) (Speed/ Dir)	2(WSW)	2(W)	3(WSW)	4(W)	2(WSW)	
18/11/2015	009	16.3	08.9	Temperature (Min-Max)	11 - 18°C	11 - 18°C	11 - 18°C	11 - 17°C	11 - 17°C	
19/11/2015	000	17.3	09.8	RH (Min- Max)	50 - 74%	50 - 74%	50 - 74%	48 - 68%	48 - 68%	

	Namt	hang			South Sikkim Forecast							
	Namthang			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5			
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Mainly Clear	Mainly Clear	Partly Cloudy	Mainly Clear	Mainly Clear			
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain			
17/11/2015	000	20.0	14.0	Wind (Km/Hr) (Speed/ Dir)	2(W)	2(W)	3(WSW)	3(WSW)	2(W)			
18/11/2015	000	20.0	11.5	Temperature (Min-Max)	12 - 23°C	12 - 23°C	11 - 22°C	11 - 22°C	11 - 21°C			
19/11/2015	000	17.5	11.5	RH (Min- Max)	50 - 72%	50 - 72%	48 - 70%	48 - 68%	46 - 68%			

			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	Mainly Clear	Mainly Clear	Partly Cloudy	Partly Cloudy	Mainly Clear
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain
17/11/2015	000	N/A	10.7	Wind (Km/Hr) (Speed/ Dir)	2(NW)	2(NW)	3(W)	4(WSW)	2(W)
18/11/2015	N/A	N/A	N/A	Temperature (Min-Max)	11 - 23°C	11 - 23°C	11 - 22°C	11 - 21°C	10 - 21°C
19/11/2015	N/A	21.6	N/A	RH (Min- Max)	50 - 76%	50 - 76%	50 - 74%	48 - 70%	48 - 70%

<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 cole crops (cabbage, cauliflower, broccoli), raya saag etc.
- Mulching should be done through locally available biomass to conserve soil moisture for rabi crops.
- **3** 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		 ♦ Birds scaring ribbon should be used for scaring the birds. ♦ 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	Pod formation	Legume pod borer	Regular monitoring and proper staking should be done.
Black gram	Maturity/ Harvesting		 Periodic harvesting should be done when pod turns pale yellow colour. Harvested pods should be sun dried and stored at < 8% moisture level.
Buckwheat	Sowing		 After field preparation FYM @ 2t/ha and vermicompost @ 1t/ ha should be applied. Sowing should be done in line at the

	1	Γ	r —	
				spacing of 30x10cm.
Mustard/	Sowing			After field preparation FYM @ 2t/ha
Toria				and vermicompost @ 1t/ ha should be
Tonu				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
V	C			the rows (zero till).
Vegetable pea/	Sowing	and and the second		Apply FYM @ 2t/ha and
Field pea				vermicompost @ 1t/ ha before
1				sowing.
				Sowing should be done in line at the arguing of $20,40x10am$
		and a second second		spacing of 30-40x10cm. Soil moisture should be maintained
			*	for proper germination.
		No till pea	۵	Alternatively, sowing can also be
			×	done immediately after harvesting of
				rice under no till condition in between
				the rows (zero till).
Tomato	Flowering/	Late Blight		
10111110			۲	Removal of infected leaves/ plant and
	Fruiting			drenching/ spray with copper
		A BOARD		oxychloride @ 0.25 % or Bordeaux
				mixture @ 1%.
		·S(19) 1451	۲	Harvesting of mature green tomato
				should be done for distant market and
				pinkish/ reddish for local market.
Winter	Nursery/			Transplanting should be done in small
vegetables	Transplanting			pits filled with well decomposed FYM
				@ 2-2.5 kg/sqm., neem cake @
				200g/sqm. and <i>Trichoderma</i> @1-2
				g/sqm should be mixed in soil before
			۵	transplanting. Nursery can be raised for early winter
			×	vegetables like cabbage, cauliflower,
				broccoli, raya saag etc.
			۲	Seed should be sown in moist soil in
				raised nursery bed of size 1x5m under
				protected condition.
			٨	FYM @ 2kg/ sqm, neem cake @
				200g/sqm, Trichoderma @2% should
				be incorporated in soil before sowing
				seed.
		L		

				Regular watering in nursery is
				recommended.
Dalley chilli/	Harvesting	Fruit fly	۲	Collection and destruction of infested
Red Cherry				dropped fruits.
pepper			٨	Regular harvesting should be done to
				improve the yield.
Large	Post harvest crop		۵	Removal and burying of blight
cardamom	management		Ý	infected leaves.
•••••••••••			۵	Weeding/ removal of infected tillers
			Ý	should be done.
			۵	Regular watering should be done at
			Ť	10-15 days intervals.
			۵	Regular monitoring for pest and
			Ť	disease incidence.
			۲	Shade management with the proper
			ľ	lopping.
Ginger	Harvesting		٨	Identify healthy plants for seed
0	Seed		ľ	rhizomes.
			۲	Care should be taken during
				harvesting to avoid the mechanical
				injury in the rhizome.
Sikkim	Fruit maturity/	Fruit drop	٨	Collection of infected dropped fruit
Mandarin				and buried in to soil.
	Harvesting		۲	Regular monitoring for trunk borer
				infestation.
			۲	Harvesting should be done along with
				twig with two leaves.
			٨	Diseased and senile branches should
				be removed.
Animal Scier	nces			
Tibetan Sheep			٨	Feeding of concentrate feed along
1				with mineral mixture and salt.
Yak			٨	Feeding of concentrate feed along
				with mineral mixture and salt.
Cattle, Sheep			٨	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.
			٨	Feeding of concentrate feed along
				with jaggery, mineral mixture and
	l		1	6

		Γ	
			 salt. Periodic application of fly repellents and/ or netting of dung pit is 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.