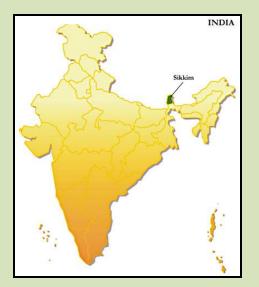


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 11TH DECEMBER to 14TH DECEMBER'2015



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





ISSUED ON FRIDAY 11TH 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					
				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	Partly Cloudy	Partly Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain
8/12/2015	000	18.1	10.1	Wind (Km/Hr) (Speed/ Dir)	3(WSW)	3(WSW)	3(WSW)	4(NW)	4(WSW)
9/12/2015	000	20.3	10.0	Temperature (Min-Max)	9 - 17°C	9 - 17°C	9 - 18°C	9 - 18°C	9 - 18°C
10/12/2015	000	17.1	10.2	RH (Min- Max)	62 - 82%	62 - 82%	60 - 82%	60 - 80%	58 - 80%

Constals			East Sikkim Forecast						
	Gangtok			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	-	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Partly Cloudy	Partly Cloudy
Date	(mm)			Rainfall	No rain	No rain	No rain	No rain	No rain
8/12/2015	000	15.2	08.0	Wind (Km/Hr) (Speed/ Dir)	3(NW)	3(WNW)	3(WNW)	2(WNW)	2(W)
9/12/2015	000	15.7	08.2	Temperature (Min-Max)	9 - 12°C	9 - 12°C	9 - 13°C	9 - 13°C	9 - 14°C
10/12/2015	000	12.2	09.7	RH (Min- Max)	62 - 84%	62 - 84%	60 - 82%	60 - 82%	58 - 80%

					Sou	th Sikki	n Forec		
Namthang			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	Partly Cloudy	Partly Cloudy
Date	(mm) (°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain	
8/12/2015	000	17.5	12.0	Wind (Km/Hr) (Speed/ Dir)	3(WNW)	3(W)	3(W)	4(WNW)	4(W)
9/12/2015	000	18.0	08.0	Temperature (Min-Max)	9 - 17°C	9 - 17°C	8 - 18°C	8 - 18°C	8 - 18°C
10/12/2015	000	17.5	07.5	RH (Min- Max)	60 - 82%	60 - 82%	60 - 80%	58 - 80%	58 - 78%

			West Sikkim Forecast						
	Gyalshing (AWS)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	•	p Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Partly Cloudy	Partly Cloudy
Date	(mm)			Rainfall	No rain	No rain	No rain	No rain	No rain
8/12/2015	000	14.9	09.5	Wind (Km/Hr) (Speed/ Dir)	3(W)	3(W)	3(W)	4(NW)	4(W)
9/12/2015	000	N/A	07.5	Temperature (Min-Max)	9 - 13°C	9 - 13°C	9 - 14°C	8 - 14°C	8 - 15°C
10/12/2015	000	N/A	09.2	RH (Min- Max)	62 - 84%	62 - 84%	60 - 84%	60 - 82%	58 - 82%

<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.
- 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)

			r	
				should be done 10-15 days after
				sowing.
Mustard/	Sowing/			After field preparation FYM @ 2t/ha
Toria	Thinning			and vermicompost @ 1t/ ha should be
1011a				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).
			٨	Thinning (removal of extra plants)
				should be done 10-15 days after
				sowing.
Vegetable pea/	Sowing/		٨	Apply FYM @ 2t/ha and
T.' 11	C CIII			vermicompost @ 1t/ ha before
Field pea	Gap filling	and the second second		sowing.
		and parts of the second	۲	Sowing should be done in line at the
				spacing of 30-40x10cm.
		LONZANS/ RESTAL	٨	Soil moisture should be maintained
		No till poo		for proper germination.
		No till pea	٨	Alternatively, sowing can also be
				done immediately after harvesting of
				rice under no till condition in between
				the rows (zero till).
			٨	Gap filling should be done at the
				earliest to maintain the proper plant
				population.
Tomato	Flowering/	Late Blight	٨	Removal of infected leaves/ plant and
				drenching/ spray with copper
	Fruiting			oxychloride @ 0.25 % or Bordeaux
				mixture @ 1%.
			٨	Harvesting of mature green tomato
		· S (19 - 16 - 1		should be done for distant market and
				pinkish/ reddish for local market.
Winter	Transplanting			Transplanting should be done in small
vegetables	Tunsplanding		Ť	pits filled with well decomposed FYM
(Cole crops)				@ 2-2.5 kg/sqm., neem cake @
				200g/sqm. and <i>Trichoderma</i> @1-2
				g/sqm should be mixed in soil before
				transplanting.
			۲	Regular watering in main field is
				recommended.
Dalley chilli/	Harvesting	Fruit fly		
Red Cherry	- in , coung	- 1010 119	Ť	dropped fruits.
			۲	Regular harvesting should be done to
			_ ·	5

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 Scien Tibetan Sheep	ıces		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 1st 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.

Agro-Met Advisory member of ICAR, Sikkim Centre

Name	Designation	Department
1. Dr. R. K. Avasthe	Joint Director	Soil Science
2. Dr. Homeswar Kalita	Principal Scientist	Entomology
3. Dr. Ashish Yadav	Senior Scientist	Horticulture
4. Dr. Raghavendra Singh	Senior Scientist	Agronomy
5. Dr. Rafiqul Islam	Senior Scientist	Animal Reproduction
6. Dr. Matber Singh	Scientist, SS	Agroforestry
7. Dr. R. Gopi	Scientist, SS	Plant Pathology

8. Dr. Subhash Babu
 9. Mr. Shaon Kr Das
 10. Dr. Brijesh Kumar
 11. Dr. Mahak Singh
 12. Mr. Boniface Lepcha

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(Subject Matter Specialist - Agril. Extn) Nodal Officer