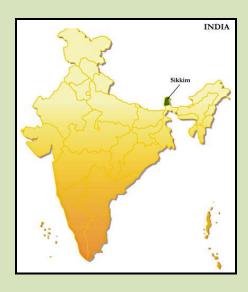


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM



PERIOD: 2nd JANUARY"2015 - 5th JANUARY"2015

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





ISSUED ON "FRIDAY 2ND JANUARY'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

Mar	Mangan (AWS)			North Sikkim Forecast						
Mai				Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Generally Cloudy	Mainly Clear	Clear	Mainly Clear	
Date	(mm)	(°C)	(°C)	Rainfall	Moderate	Moderate	No rain	No rain	No rain	
30/12/2014	000	00.0	00.0	Wind (Km/Hr) (Speed/ Dir)	13(SW)	16(S)	8(W)	10(SSW)	2(WSW)	
31/12/2014	000	00.0	00.0	Temperature (Min-Max)	-188°C	-1711°C	-3113°C	-279°C	-277°C	
1/1/2015	000	00.0	00.0	RH (Min-Max)	69 - 88%	81 - 88%	41 - 83%	45 - 71%	74 - 93%	

	Gangtok			East Sikkim Forecast						
•				Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	mp Temp	Sky Condition	Partly Cloudy	Generally Cloudy	Mainly Clear	Clear	Mainly Clear	
Date	(mm)	(°C)		Rainfall	Light	Light	No rain	No rain	No rain	
30/12/2014	000	00.0	00.0	Wind (Km/Hr) (Speed/ Dir)	6(NW)	7(SSE)	5(S)	5(SE)	2(SE)	
31/12/2014	000	00.0	00.0	Temperature (Min-Max)	2 - 13°C	2 - 10°C	-3 - 10°C	-2 - 9°C	-2 - 9°C	
1/1/2015	000	00.0	0.00	RH (Min-Max)	43 - 72%	54 - 72%	34 - 69%	41 - 78%	59 - 92%	

NI	Namthang			South Sikkim Forecast						
IN				Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Partly Cloudy	Generally Cloudy	Mainly Clear	Clear	Mainly Clear	
Date	(mm)	(°C)	(°C)	Rainfall	Light	Light	No rain	No rain	No rain	
30/12/2014	000	00.0	00.0	Wind (Km/Hr) (Speed/ Dir)	8(WNW)	10(S)	5(SSW)	6(SE)	2(S)	
31/12/2014	000	00.0	00.0	Temperature (Min-Max)	-4 - 6°C	-4 - 3°C	-12 - 3°C	-10 - 3°C	-10 - 4°C	
1/1/2015	000	00.0	00.0	RH (Min-Max)	50 - 75%	61 - 76%	35 - 70%	42 - 76%	63 - 92%	

Cyrol	Gyalshing (AWS)			West Sikkim Forecast						
Gyan				Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	mp Temp	Sky Condition	Generally Cloudy	Generally Cloudy	Clear	Clear	Mainly Clear	
Date	(mm)	(°C)		Rainfall	Light	Light	No rain	No rain	No rain	
30/12/2014	000	00.0	00.0	Wind (Km/Hr) (Speed/ Dir)	10(WNW)	12(W)	4(SW)	7(SE)	3(S)	
31/12/2014	000	00.0	00.0	Temperature (Min-Max)	-5 - 4°C	-5 - 1°C	-14 - 2°C	-12 - 2°C	-12 - 3°C	
1/1/2015	000	00.0	00.0	RH (Min-Max)	54 - 72%	61 - 74%	30 - 62%	43 - 76%	65 - 92%	

Part II

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops

- Conservation of soil moisture through locally available biomass mulching in all the crops.
- Preventive spray and soil drenching with copper oxychloride @2.5 g/l of water at weekly intervals.
- Spraying of plant protection biopesticides in the evening.
- Sowing/transplanting of late *Rabi* vegetable crops like cole crops, pea, leafy vegetable *etc*.
- Utilization of harvested water stored in various structures like *Jalkund* is recommended through drip and sprinkler irrigation system for cultivation of *Rabi* crops.
- Incorporate organic sources of nutrients (FYM, Vermicompost, Poultry manure, Pig manure, Goat/ Sheep manure, Mixed compost, Neem cake *etc.*) in to the soil for cultivation of all *Rabi* crops.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Rapeseed and mustard	Sowing / Vegetative / Flowering stage	White rust	 Thinning to maintain row to row and plant to plant spacing of 30x10 cm, respectively. Mulching with locally available bio resources is recommended. One irrigation at late vegetative/ flowering stage. Remove the infected inflorescence.
Buckwheat	Flowering / grain filling		Regular monitoring of crop.
Garden pea	Sowing/ vegetative/ flowering/ harvesting	Rust	 Sowing of late pea to be completed at the earliest. Mulching with locally available biomass after emergence is recommended. Pod harvesting should be done

		Powdery mildew Disease	•	carefully to avoid plant damage. Preventive spray with 0.25% wettable sulphur for the management of rust and powdery mildew.
Large cardamom	Harvesting		<!--</th--><th>Removal and burying of blight infected leaves. Application of 500g vermicompost / 2kg well decomposed FYM per clump is recommended. Two irrigations in a month are recommended. Field sanitation and removal of unproductive tillers.</th>	Removal and burying of blight infected leaves. Application of 500g vermicompost / 2kg well decomposed FYM per clump is recommended. Two irrigations in a month are recommended. Field sanitation and removal of unproductive tillers.
Ginger	Storage		•	Harvested rhizome should be dried for two weeks under shade condition and stored in cool and dry place for seed material.
Cole crops	Transplanting / Vegetative/ Harvesting	Damping offClub root	**	Transplanting of seedlings should be done immediately. Soil application of <i>Trichoderma viride/ Pseudomonas fluorescens</i> @ 2.5 kg mixed with 50kg well decomposed FYM for 1 ha. Drenching with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1% at 10 days interval for the management of damping off and root rot. Removal of club root infected plant and drenching with copper

			oxychloride @ 0.25 % or Bordeaux mixture @ 1%. ◆ Application of Neem cake/ mustard oil cake @ 50kg/1000sqm. ◆ Drenching of plant with mixture of water, cow urine and Neem oil 8 litre, 2 litre and 50 ml, respectively at weekly interval to avoid red ant and cut worms. ◆ Earthing up for early transplanted crop is recommended. ◆ Over watering should be avoided.
Tomato	Fruit setting/ harvesting	Late blight of tomato	 Watering should be done at the base of the plant. Removal of diseased leaves and branches and weekly spraying of copper oxychloride @ 0.25% for the management of late blight disease.
Potato	Planting/ vegetative	Late blight of potato	 Kufri Jyoti, K. Giriraj, K. Sheetman, K. Badshah are recommended varieties. Tubers with two eyes, weighing 40-50 g are ideal for planting. Ridge to ridge spacing of 45 cm and plant to plant distance of 30 cm has to be maintained. FYM @ 10-15 t/ha and Neem cake 500 kg/ ha is recommended. Removal of diseased leaves and branches and weekly spraying of copper oxychloride @ 0.25% for the management of late blight disease.

Sikkim	Harvesting/		Pluck the fruit along with the twi	g to
Mandarin			avoid injury.	
	Storage		Harvesting to be done carefully	to
			avoid breakage of produc	tive
			branches.	
			Fruit can be stored on trees for dela	iyed
			harvesting.	
			Collect fallen fruits and destroy	o to
			prevent further multiplication of flies.	fruit
			♦ Packing of graded fruits in corrug	ated
			fibre boxes cushioned with dry pa	
			straw to reduce post harvest loss.	•
Sikkim	Harvesting/		Pluck the fruit along with the twi	g to
Mandarin	_		avoid injury.	-
	Storage		Harvesting to be done carefully	to
			avoid breakage of produc	tive
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			harvesting.	
			♦ Collect fallen fruits and destroy	
			prevent further multiplication of	fruit
			flies.	, 1
			Packing of graded fruits in corrug	
			fibre boxes cushioned with dry pa	aay
Kiwi fruit	Training		straw to reduce post harvest loss. Dormant kiwi fruit plant should	ha
Kiwi iiuit	/Pruning		pruned to give proper shape to	
	/I runnig		vine.	une
Animal Scie	nces		vinc.	
Tibetan Sheep	Sheared sheep		Provide winter shelter for lambs.	
37 -1-	D	W7-1-1-41-	A December 1 december 1	• -
Yak	Pregnancy	Weight gain	Pregnancy diagnosis recommended.	is
				n a
			Feeding of concentrate feed all with mineral mixture and salt.	ng
			Provide winter shelter for calves.	
Cattle, Sheep	All stages		 Chances of coming into estrus 	SO
and Goat	Till stages		farmers are advised to look for h	
and Cour			sign especially during early morn	
			or late evening and ensure breed	_
			of the animal after 12 hr of 1 st h	_
			observe.	
			Feeding of colostrums within 2	hrs
			of birth.	
			♦ Feeding of concentrate feed ale	ong

			with jaggery, mineral mixture and salt. De-worming with Fenbendazole @ 10 mg / kg body weight.
Poultry	All stages	High humidity	 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 5th day and at 30th day of age.
Pig	All stages		 Keep floor dry to avoid skin diseases. De-worming with Fenbendazole @ 10 mg / kg body weight.