

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 18th NOVEMBER – 20th NOVEMBER"2014



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





ISSUED ON TUESDAY 18th NOVEMBER'2014 BY

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 (AWS)				North Sikkim Forecast						
Date	Rainfall Max. Temp (mm) (°C)		Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date			Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
14/11/2014	000	20.8	14.3	Rainfall	No rain	No rain	No rain	No rain	No rain	
15/11/2014	N/A	18.7	N/A	Wind (Speed/ Dir)	2KT(S)	2KT(SW)	1KT(S)	2KT(S)	1KT(SSW)	
16/11/2014	000	18.4	14.6	Temperature (Min-Max)	13 - 20°C	13 - 20°C	12 - 21°C	12 - 21°C	12 - 20°C	
17/11/2014	000	19.5	13.5	RH (Min-Max)	73 - 92%	74 - 92%	72 - 91%	70 - 90%	70 - 88%	

	Gang	gtok		East Sikkim Forecast						
Data	Date Rainfall Max. Temp (mm) (°C)	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date		(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
14/11/2014	000	17.4	11.5	Rainfall	No rain	No rain	No rain	No rain	No rain	
15/11/2014	000	14.5	12.2	Wind (Speed/ Dir)	OKT(E)	1KT(SSE)	1KT(S)	1KT(ESE)	1KT(S)	
16/11/2014	001	15.0	12.1	Temperature (Min-Max)	11 - 16°C	11 - 16°C	10 - 16°C	10 - 17°C	10 - 17°C	
17/11/2014	001	15.2	11.3	RH (Min-Max)	75 - 93%	75 - 92%	74 - 90%	72 - 88%	72 - 88%	

	Nierost				C				
	Namt	nang			501	ith Sikki	m Foreca	ist	
Data	Date Rainfall Max. Temp (mm) (°C)	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date		(°C)	°C) (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
14/11/2014	000	20.5	12.5	Rainfall	No rain				
15/11/2014	000	20.0	11.0	Wind (Speed/ Dir)	2KT(ESE)	2KT(S)	1KT(SSE)	2KT(ESE)	2KT(SSW)
16/11/2014	000	20.0	12.5	Temperature (Min-Max)	12 - 21°C	12 - 21°C	12 - 22°C	11 - 21°C	11 - 21°C
17/11/2014	000	22.0	12.0	RH (Min-Max)	72 - 92%	72 - 91%	70 - 90%	70 - 89%	68 - 88%

G	yalshin	g (AWS)		West Sikkim Forecast						
Data	_ Rainfall M	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	
14/11/2014	000	19.4	10.7	Rainfall	No rain					
15/11/2014	000	N/A	11.2	Wind (Speed/ Dir)	2KT(ESE)	2KT(SSW)	2KT(ESE)	1KT(ESE)	1KT(W)	
16/11/2014	001	17.8	11.8	Temperature (Min-Max)	18/11	18/10	18/10	19/10	19/10	
17/11/2014	001	N/A	10.8	RH (Min-Max)	73 - 93%	72 - 91%	71 - 90%	70 - 88%	68 - 88%	

<u>Part II</u>

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops

- Solution 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 and transplanting of *Rabi* vegetable crops like cole crops, pea, leafy vegetables, tomato *etc* and fodder crops (oat/berseem).
- 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 in to the soil for cultivation of all *Rabi* crops.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops	· · · · · · · · · · · · · · · · · · ·		
Rice	Maturity and Harvesting stage		 Use of birds scaring ribbon for preventing bird's damage. Early threshing of rice crop is recommended after harvest to avoid shattering. Select healthy/ disease free panicles for seed purpose. Store seed in cool and dry place after proper drying.
Finger millet	Grain filling		Use of birds scaring ribbon for preventing bird's damage.
Rapeseed and mustard	Sowing after harvest of rice/ Vegetative stage		 Line sowing is recommended @ 6kg/ha. Maintain row to row and plant to plant spacing of 30x10 cm respectively. One irrigation and mulching with locally available bio resources and one is recommended. Seed treatment with <i>Trichoderma viride / T. harzianum</i> @ 4g/kg. FYM application @ 5-10 t/ha and

		Γ	1	
				vermicompost @ 2 t/ha is
				recommended.
Buckwheat	Sowing/			Line sowing @ 35 kg/ha maintaining
	Flowering			row to row and plant to plant spacing
				of 30x15 cm respectively to maintain
			•	optimum plant population.
				Light pre sowing irrigation is
D : 1				recommended.
Rajmash	Fruiting / harvesting		-	Harvest at proper maturity stage and
	narvesting			store after sun drying.
Large	Harvesting		٨	Spray wettable sulphur @ 0.25 % for
cardamom	-			the management of rust.
			۲	Application of 500g vermicompost /
				2kg well decomposed FYM per
				clump is recommended.
			۲	Two irrigations in a month is
				recommended.
Cole crops	Transplanting /	Damping off	۲	Transplanting of seedlings should be
	Vegetative			done immediately.
				Soil application of <i>Trichoderma</i>
				viride/ Pseudomonas fluorescens @
				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.
			*	Application of Neem cake/ mustard
				oil cake @ 50kg/1000sqm. Drenching of plant with mixture of
			*	water, cow urine and Neem oil 8 ltr., 2
				ltr. and 50 ml respectively at weekly
				interval to avoid red ant and cut
				worms.
			٨	Earthing up for early transplanted crop
			·	is recommended.
Tomata	Trongolanting			
Tomato	Transplanting		V	Watering should be done at the base of the plant
				of the plant. Removal of diseased leaves and
			× ×	branches and weekly spraying of
				copper oxychloride @ 0.25% for the
				management of late blight disease.
				management of fate ofight disease.

Potato	Planting			Kufri Jyoti, K. Giriraj, K. Sheetman,
	-			K. Badshah are recommended
				varieties.
			۲	Tubers with two eyes, weighing 40-
			•	50 g are to be planted.
			۵	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.
Sikkim	Harvesting		-	Pluck the fruit along with the twig to
Mandarin				avoid injury.
			٨	Harvesting to be done carefully to
				avoid breakage of productive
				branches.
			۲	Collect fallen fruits and destroy to
			Ť	prevent further multiplication of fruit
				flies.
			~	Packing of graded fruits in corrugated
				fibre boxes cushioned with dry paddy
				straw to reduce post harvest loss.
Animal Scien	ices			
Tibetan Sheep	Sheared sheep			Dipping the animal / spraying with
	-			ectoparasitic drug at 3 monthly
				intervals.
			۲	Provide winter shelter for lambs.
Yak	Pregnancy	Weight gain	ا	
1 uk	I regnancy	Worght guin	Ť	recommended.
			۵	
			~	Feeding of concentrate feed along
				with mineral mixture and salt.
				Provide winter shelter for calves.
Cattle, Sheep	All stages			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.
			۲	Feeding of colostrums within 2 hrs
				of birth.
			۲	Feeding of concentrate feed along
			•	with mineral mixture and salt.
			~	De-worming with Fenbendazole @
				10 mg / kg body weight.
Poultry	All stages	High humidity		Frequent raking and liming of deep
		1		

		litter materials.
		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.
Pig	All stages	• Keep floor dry to avoid skin diseases.
		De-worming with Fenbendazole @
		10 mg / kg body weight.
		Dipping the animal / spraying with
		ectoparasitic drug at 3 monthly
		interval.