

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



PERIOD: 28TH OCTOBER TO 31ST OCTOBER'2016

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





ISSUED ON FRIDAY 28TH OCTOBER'2016

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 (DTO)			North Sikkim Forecast						
1	Mangan (PTO)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	No rain				
25-10-2016	000	23.2	17.4	Wind (Km/Hr) (Speed/ Dir)	4(S)	4(S)	3(ENE)	2(S)	2(SSE)
26-10-2016	001	25.1	14.4	Temperature (Min-Max)	14 - 25°C	14 - 24°C	13 - 24°C	13 - 23°C	13 - 23°C
27-10-2016	000	28.1	13.2	RH (Min- Max)	55 - 85%	53 - 80%	50 - 78%	50 - 78%	55 - 75%

Canataly			East Sikkim Forecast							
	Gangtok			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Partly Cloudy	Mainly Clear	Mainly Clear	Mainly Clear	Mainly Clear	
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain	
25-10-2016	000	20.6	13.8	Wind (Km/Hr) (Speed/ Dir)	3(SSE)	3(ESE)	2(NE)	2(SSE)	2(SSE)	
26-10-2016	000	21.0	12.7	Temperature (Min-Max)	12 - 21°C	11 - 20°C	11 - 20°C	11 - 20°C	11 - 20°C	
27-10-2016	000	20.5	12.1	RH (Min- Max)	60 - 80%	55 - 78%	55 - 78%	50 - 75%	50 - 75%	

Namthang			South Sikkim Forecast							
			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	Rainfall	Max. Temp Mi	Min. Temp	Sky Condition	Partly Cloudy	Partly Cloudy	Mainly Clear	Mainly Clear	Mainly Clear	
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain	
25-10-2016	000	23.0	13.0	Wind (Km/Hr) (Speed/ Dir)	3(S)	3(SE)	2(NE)	2(S)	2(S)	
26-10-2016	000	24.5	13.5	Temperature (Min-Max)	13 - 23°C	12 - 22°C	12 - 22°C	12 - 22°C	12 - 22°C	
27-10-2016	000	24.0	13.0	RH (Min- Max)	55 - 82%	50 - 80%	50 - 78%	48 - 75%	50 - 75%	

Cyclobing (AMC)			West Sikkim Forecast						
G,	Gyalshing (AWS)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Partly Cloudy	Mainly Clear	Mainly Clear	Mainly Clear	Mainly Clear
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain
25-10-2016	N/A	N/A	N/A	Wind (Km/Hr) (Speed/ Dir)	3(S)	3(S)	2(NE)	2(W)	2(WSW)
26-10-2016	N/A	N/A	N/A	Temperature (Min-Max)	13 - 22°C	12 - 22°C	12 - 21°C	12 - 21°C	11 - 21°C
27-10-2016	N/A	N/A	N/A	RH (Min- Max)	55 - 77%	50 - 75%	50 - 72%	48 - 70%	45 - 70%

Part II

AGRO-METEREOLOGICAL ADVISORIES

- Spraying of plant protection biopesticides on bright sunny day for insect and disease management is recommended.
- Nursery should be raised for early season cole crops (cabbage, cauliflower, broccoli), onion, raya saag etc. under protected condition.
- Provide adequate drainage to avoid water logging in ginger, turmeric.
- Vermicompost pits should be covered with gunny bags / weed biomass/ dry forest litter/ domestic and farm waste and kept moist by providing water at weekly interval.
- Avoid feeding of damp and foul smelling feed to all livestock and poultry.
- FMD Vaccination is strongly recommended for all livestock. Farmers may please contact nearest veterinary hospital/institution/V.O. for the vaccination
- De-worming with Fenbendazole @ 10 mg / kg body weight.
- **Solution** Weeks. The floor should be covered with paddy husk (15 cm). Newspaper should be spread over the paddy husk during first 3-4 days. Starter feed should be spread over the newspaper.
- Regular raking of the floor litter should be done at an interval of 10 days. Lime powder application is recommended to prevent dampness. Excessive moist floor litter materials should be removed and replaced with fresh materials.
- Regular vaccination of Vanaraja birds: Lasota vaccine; 5-7 day old chicks in one eye. IBD vaccine; orally or in drinking water on 16 and 26 day old chicks. Lasota vaccine: 30 day old chicks in one eye.
- Sufficient green fodder should be provided to all livestock or allow range grazing to maintain proper productive and reproductive performance.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Rice	Flowering and Reproductive	Gandhi bug Neck Blast	 Spray neem based formulation (1500ppm) @ 3ml per litre of water for controlling leaf folder. Proper soil moisture should be maintained up to grain filling stage. Spray with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1% for the management of neck blast at 10-15 days interval.
Black gram	Pod formation and harvesting	Blister Beetle	 Harvesting should be done when pod turns pale yellow colour. Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done.

Finger millet	Grain formation and Harvesting		*	Regular field monitoring should be done.
Rice bean	pod formation	Blister Beetle Legume pod borer	 	Proper staking should be done. Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done.
Soybean	Pod development and harvesting		*	Uproot diseased plants. Harvesting should be done when pod turns pale yellow colour.
Tomato	Flowering/ fruiting	Fruit borer/ white fly/ late blight	•	Application of petroleum agrospray @ 10ml/litre or neem oil (1500 ppm) @ 5 ml/litre for management of aphids, white fly etc. at 15 days interval for 2-3 times. Installation of sex pheromone traps @ 2-3 traps/1000 sqm. Removal of infected leaves/ plant and drenching/ spray with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1%. Harvesting of mature green tomato should be done for distant market and pinkish/ reddish for local market.
Red cherry pepper/Dalley chilli	Flowering/ fruiting	Aphid/ white fly/fruit fly	 	Drenching with COC @ 0.25% at 7-10 days interval for management of root rot. Application of petroleum agrospray @ 10ml/litre or neem oil (1500 ppm) @ 5 ml/litre for management of aphids, white fly etc. at 15 days interval for 2-3 times. Collection and destruction of infested fruit. Installation of para pheromone trap (cue lure) @ 16-20 traps/ha. Regular harvesting
Gourds (Bottle/bitter/sponge/ridge)	Flowering/ fruiting	Fruit fly	<!--</th--><th>Proper drainage should be maintained. Collection and destruction of infested fruit. Installation of para pheromone trap (cue lure) @ 16-20 traps/ha. Regular harvesting should be done to improve the yield.</th>	Proper drainage should be maintained. Collection and destruction of infested fruit. Installation of para pheromone trap (cue lure) @ 16-20 traps/ha. Regular harvesting should be done to improve the yield.

Okra	Flowering/	Blister beetle/ friut	*	Proper drainage should be ensured.
Cucurbitaceous	fruiting/	fly	*	Regular monitoring, collection and destruction of beetles.
crops	harvesting		*	Install pheromone traps @ 16-20
			ľ	traps/ha for control of fruit fly. The
				lure has to be replaced at every 20
				days interval.
				Collect and destroy the infected
Large	After Harvesting	-	•	fruits. Apply well decomposed FYM @
cardamom	After Harvesting	-	*	2kg/ vermicompost @ 200g and neem
				cake @ 150g per clump.
			\limits	Removal and burying of blight
				infected leaves.
				Weeding/ removal of infected tillers
				should be done.
				Removal of infected leaves/ plant and
				spray with copper oxychloride @ 0.25 %.
Ginger	Seed rhizome			Identify healthy plants for seed
			ľ	rhizomes.
Sikkim	Fruit maturity	Trunk borer/ leaf	*	Tree trunk should be painted with 1%
mandarin		miner, scab, aphid		Bordeaux paste.
		and felt disease		Plant basin should be kept weed free.
				For leaf miner and aphids management, application of petroleum
				agrospray @ 10ml/litre or neem oil
				(1500 ppm) @ 5 ml/litre at 15 days
				interval for 2-3 times is recommended.
				Spray COC @ 0.25% after removing
				the infected branches
			*	Regular monitoring for detection of
				trunk borer infestation at the base of the trunk is advised. If wooden frass is
				observed, cleaning and insertion of
				cotton soaked in kerosene and
				plastered with clay and cowdung
				mixture.
Kiwifruit	Fruit maturity			Preventive measures should be taken
				to avoid bird and squirrel damage.
Animal Sciences				
Tibetan Sheep			*	Feeding of concentrate feed along
				with mineral mixture and salt. Hay feeding is recommended.
			-	Hay feeding is recommended.

Yak		\limits	Feeding of concentrate feed along
			with mineral mixture and salt.
			Hay feeding is recommended.
			Trimming of hair is recommended.
Cattle, Sheep			Farmers are advised to look for heat
and Goat			sign especially during early morning
			or late evening and ensure breeding
			of the dairy cattle 12 hr after
			observation of heat.
			Breeding of the sheep/goat should be
			done 24-30 hr after observation of
			heat.
			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. Colostrum (first
			three days milk) feeding to new born
			calf for first three days of life should
			be ensured.
			Full hand milking should be
			practiced.
			Frequent incomplete milking at
			interval of 4hrs should be practiced
			after parturition for minimum 1 week.
			Afterwards complete milking in a day
D 1	G		is recommended.
Poultry	Coccidiosis, Ranikhet		16 hrs of light (natural and electrical)
	disease		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
			coccidiosis.
			Maintenance of brooder temperature
		Ť	for chicks with the help of electrical
			bulbs for initial one month.
			Ranikhet vaccination at 5 th day and at
			30 th day of age.
			Calcium/shell grit and multi vitamin
			supplementation is strongly
			or promotion is strongly

			•	recommended to optimize egg production. Spraying of ectoparasiticides <i>viz.</i> , deltamethrin/cypermethrin @ 1% v/v in water.
Pig	All stages	Swine fever	****	Keep floor dry to avoid skin diseases. Weaning is recommended at the age of 8 weeks for crossbreds and 10 weeks for indigenous pigs. 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.