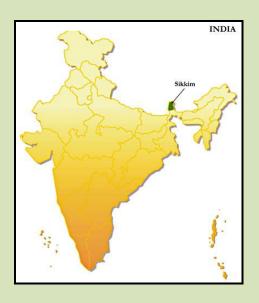


STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 14TH JUNE TO 16TH JUNE'2016



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





ISSUED ON TUESDAY 14TH JUNE'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 (PTO)				North Sikkim Forecast							
Rainfall	Rainfall	Max. Temp	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Day 3	Day 4	Day 5					
Date	(mm)	(°C)		_	Cloudy	Cloudy	Generally Cloudy	Cloudy	Cloudy		
10-6-2016	003	32.1	12.0	Rainfall	Moderate	Light	Light	Moderate	Moderate		
11-6-2016	000	21.2	14.4	Wind (Speed/ Dir)	3Km/Hr (E)	3Km/Hr (SW)	4Km/Hr (S)	5Km/Hr (S)	4Km/Hr (S)		
12-6-2016	007	30.0	15.5	Temperature (Min-Max)	15 - 28°C	15 - 27°C	14 - 27°C	14 - 27°C	14 - 28°C		
13-6-2016	034	29.1	15.6	RH (Min-Max)	69 - 91%	72 - 94%	75 - 90%	72 - 92%	80 - 94%		

Gangtok				East Sikkim Forecast							
Date	Rainfall I	Max. Temp	Min. Temp (°C)	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)	(°C)		Sky Condition	Cloudy	Cloudy	Generally Cloudy	Cloudy	Cloudy		
10-6-2016	002	23.8	17.0	Rainfall	Moderate	Moderate	Moderate	Moderate	Light		
11-6-2016	002	25.4	17.2	Wind (Speed/ Dir)	3Km/Hr (E)	4Km/Hr (SSE)	4Km/Hr (E)	4Km/Hr (SE)	4Km/Hr (SE)		
12-6-2016	034	22.7	17.1	Temperature (Min-Max)	18 - 22°C	17 - 22°C	17 - 22°C	17 - 23°C	17 - 23°C		
13-6-2016	036	22.8	17.3	RH (Min-Max)	75 - 95%	78 - 97%	77 - 93%	77 - 96%	82 - 97%		

Namthang				South Sikkim Forecast							
Date	Rainfall M	Max. Temp	Min. Temp (°C)	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)	(°C)		Sky Condition	Cloudy	Cloudy	Generally Cloudy	Cloudy	Cloudy		
10-6-2016	007	29.5	20.0	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate		
11-6-2016	000	29.5	20.0	Wind (Speed/ Dir)	3Km/Hr (E)	4Km/Hr (S)	4Km/Hr (ESE)	4Km/Hr (SSE)	4Km/Hr (SE)		
12-6-2016	005	29.5	20.5	Temperature (Min-Max)	18 - 26°C	18 - 27°C	19 - 27°C	19 - 27°C	18 - 27°C		
13-6-2016	017	29.0	19.5	RH (Min-Max)	74 - 94%	77 - 96%	79 - 92%	76 - 95%	82 - 96%		

Gyalshing (AWS)				West Sikkim Forecast							
Data	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)	(°C)	(°C)	Sky Condition	Cloudy	Cloudy	Generally Cloudy	Cloudy	Cloudy		
10-6-2016	001	26.4	16.8	Rainfall	Moderate	Light	Moderate	Light	Light		
11-6-2016	N/A	26.0	N/A	Wind (Speed/ Dir)	3Km/Hr (NE)	4Km/Hr (S)	4Km/Hr (SE)	4Km/Hr (SSE)	4Km/Hr (ESE)		
12-6-2016	065	26.0	16.8	Temperature (Min-Max)	18 - 22°C	18 - 23°C	17 - 23°C	17 - 23°C	17 - 24°C		
13-6-2016	000	24.5	17.9	RH (Min-Max)	77 - 93%	80 - 95%	84 - 94%	79 - 95%	81 - 95%		

Part II

AGRO-METEREOLOGICAL ADVISORIES

- Spraying of plant protection biopesticides on bright sunny day for insect and disease management is recommended.
- Water harvesting structure should be constructed for storing rain water.
- Provide adequate drainage to avoid water logging in maize, ginger, turmeric and summer vegetables.
- **♥** 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.
- **№** Keep the Vanaraja chicks in warm condition (32-33°C at chick height) during the first four 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			
Maize	Cob formation	Army worm/ semilooper	Regular monitoring for insect-pest and collection and destruction should be done. Application of spinosad 45 SC @ 3 ml/10 litre or neem oil (1500 ppm) @ 5 ml/litre for management of army worm, semilooper etc at 15 days interval for 2-3 times.
Tomato	Flowering/ fruiting	Fruit borer/ white fly/ late blight	Infected/dried leaves should be pruned and spray COC @ 0.25% at 7- 10 days interval for management of 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 @
5.1.1				2-3 traps/1000 sqm.
Red cherry	Vegetative/	Aphid/ white fly	*	Drenching with COC @ 0.25% at 7-
pepper	flowering/			10 days interval for management of
	fruiting			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.
Okra	Vegetative/	Blister beetle		Proper drainage should be ensured.
OKIU	Flowering	Brister occite	*	Hand weeding at 15 days interval.
Cucurbitaceous	110 611115		*	Regular monitoring, collection and
crops				destruction of beetles.
Large	Flowering/	Stem borer/ shoot fly/		Application of COC @ 0.25% at
cardamom	fruiting	tea mosquito bug	•	monthly interval for management of
		1		flower and capsule rot.
				Shade management with the proper
			ľ	lopping of trees.
			\oint{\oint}	Application of neem oil (1500 ppm)
				@ 5 ml/litre for management of stem
				borer/ shoot fly/ tea mosquito bug at
				15 days interval for 2-3 times.
Ginger	Vegetative	Soft rot		Forest litter should be collected and
				used as mulching material.
				Proper drainage should be ensured.
				Hand weeding at 15 days interval.
				Drenching with COC @ 0.25% at 7-
				10 days interval for management of
				soft rot.
Sikkim	Fruit set/ fruit	Trunk borer/ leaf		Tree trunk should be painted with 1%
Mandarin	growth	miner		Bordeaux paste.
				Plant basin should be kept weed free.
			*	Proper drainage should be ensured.
			-	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.
				Regular monitoring for detection of
			•	trunk borer infestation at the base of
				Total medicion de die odde of

Kiwifruit	Fruiting		the trunk is advised. If wooden frass is observed, cleaning and insertion of cotton soaked in kerosene and plastered with clay and cowdung mixture. Plant basin should be kept weed free. Proper drainage should be ensured. Apply FYM @ 20-25 kg/plant + 2-4 kg well decomposed goat manure for heavy bearing should be done.
Animal Sciences			
Tibetan Sheep		*	Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended.
Yak			Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended. Trimming of hair is recommended.
Cattle, Sheep and Goat		•	Farmers are advised to look for heat 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 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
				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
				recommended to optimize egg
				production.
				Spraying of ectoparasiticides viz.,
				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 indigeneous 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.