

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 12TH JULY TO 14TH JULY'2016



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





ISSUED ON TUESDAY 12TH JULY'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							
Date	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	Cloudy	Cloudy	Cloudy			
8/7/2016	000	30.5	18.3	Rainfall	Light	Moderate	Moderate	Moderate	Moderate			
9/7/2016	000	30.0	18.5	Wind (Speed/ Dir)	3Km/Hr (SSW)	2Km/Hr (SW)	2Km/Hr (SW)	3Km/Hr (S)	4Km/Hr (S)			
10/7/2016	013	28.2	18.2	Temperature (Min-Max)	18-27	18-27	18-26	18-26	18-27			
11/7/2016	000	28.1	18.4	RH (Min-Max)	72 - 88%	75 - 92%	80 - 95%	80 - 95%	79 - 90%			

Gangtok				East Sikkim Forecast							
Data	Rainfall Max.	Max. Temp	Min. Temp (ºC)	Day → Parameter↓	Day 1	Day 2	Day 2 Day 3		Day 5		
Date	(mm)	(°C)		Sky Condition	Generally Cloudy	Cloudy	Cloudy	Cloudy	Cloudy		
8/7/2016	004	22.6	18.8	Rainfall	Light	Light	Moderate	Moderate	Moderate		
9/7/2016	006	21.4	18.5	Wind (Speed/ Dir)	3Km/Hr (SE)	2Km/Hr (SE)	3Km/Hr (SSE)	3Km/Hr (ESE)	2Km/Hr (SE)		
10/7/2016	022	21.3	18.2	Temperature (Min-Max)	18 - 22°C	18 - 22°C	18 - 21°C	18 - 21°C	18 - 22°C		
11/7/2016	004	21.3	18.5	RH (Min-Max)	80 - 92%	82 - 92%	84 - 96%	85 - 97%	84 - 93%		

Namthang

South Sikkim Forecast

Date	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	(mm)	(°C)	(°C)	Sky Condition	Generally Cloudy	Cloudy	Cloudy	Cloudy	Cloudy
8/7/2016	000	28.0	21.5	Rainfall	Light	Moderate	Moderate	Moderate	Moderate
9/7/2016	012	27.5	22.0	Wind (Speed/ Dir)	3Km/Hr (SSE)	2Km/Hr (SSE)	3Km/Hr (SSE)	3Km/Hr (SE)	3Km/Hr (SSE)
10/7/2016	010	27.0	19.0	Temperature (Min-Max)	20 - 26°C	20 - 26°C	20 - 25°C	20 - 25°C	20 - 26°C
11/7/2016	000	27.5	19.5	RH (Min-Max)	75 - 91%	80 - 95%	85 - 97%	85 - 97%	83 - 95%

Gyalshing (AWS)				West Sikkim Forecast							
Date	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)	(°C)	(°C)	Sky Condition	Generally Cloudy	Cloudy	Cloudy	Cloudy	Cloudy		
8/7/2016	N/A	N/A	N/A	Rainfall	Light	Light	Moderate	Moderate	Moderate		
9/7/2016	N/A	N/A	N/A	Wind (Speed/ Dir)	3Km/Hr (SSE)	3Km/Hr (S)	2Km/Hr (S)	3Km/Hr (SE)	3Km/Hr (SE)		
10/7/2016	N/A	N/A	N/A	Temperature (Min-Max)	18 - 22°C	18 - 22°C	18 - 21°C	18 - 21°C	18 - 22°C		
11/7/2016	N/A	N/A	N/A	RH (Min-Max)	80 - 93%	81 - 95%	82 - 97%	84 - 97%	86 - 93%		

<u>Part II</u>

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 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	Harvesting	Army worm/ semilooper	 Harvesting should be done at moisture content 20-22percent. Grain should be stored properly after sun drying at moisture content 12-14 percent.
Rice	Land preparation/ Transplanting	-	Apply well decomposed FYM @ 5.0 t/ha + goat manure 0.5 t/ha + poultry manure 0.5 t/ha and mix properly with soil 7-10 days before sowing
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.

		1		
				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.
			٨	Installation of sex pheromone traps @
				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.
			٨	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	٨	Proper drainage should be ensured.
	Flowering			Hand weeding at 15 days interval.
Cucurbitaceous	1 io of hig		٨	Regular monitoring, collection and
crops			Ť	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
				flower and capsule rot.
			٨	Shade management with the proper
				lopping of trees.
			٨	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	٨	Forest litter should be collected and
	C			used as mulching material.
			٨	Proper drainage should be ensured.
			٨	Hand weeding at 15 days interval.
			٨	Drenching with COC @ 0.25% at 7-
				10 days interval for management of
				soft rot.
Sikkim	Fruit set/ fruit	Trunk borer/ leaf		
Mandarin	growth	miner	Ť	Bordeaux paste.
Trundar III	Stown		۲	
				Proper drainage should be ensured.
				For leaf miner and aphids
			v	1
				management, application of petroleum
				agrospray @ 10ml/litre or neem oil (1500 ppm) @ 5 ml/litre of 15 days
				(1500 ppm) @ 5 ml/litre at 15 days
				interval for 2-3 times is recommended.
			Ŵ	Regular monitoring for detection of
				trunk borer infestation at the base of
				5

kiwifruit Fruiting Kiwifruit Fruiting Kiwifruit Fruiting Maintal Sciences Plant basin should be kept weed fruition Tibetan Sheep Feeding of concentrate feed al with mineral mixture and salt.	n of and dung ee.
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Kiwifruit Fruiting Image: Should be kept weed fruit of the should be kept weed fruit of the should be kept weed fruit of the should be ensured be ensured of the should be ensured of the	dung ee.
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Kiwifruit Fruiting Plant basin should be kept weed from the second should be ensured to the secon	
Animal Sciences Tibetan Sheep Image: Sheep	
Animal Sciences Tibetan Sheep Feeding of concentrate feed al with mineral mixture and salt.	
Tibetan Sheep Feeding of concentrate feed al with mineral mixture and salt.	ong
with mineral mixture and salt.	ong
	-
◆ Hay feeding is recommended.	
Yak	ong
with mineral mixture and salt.	0
Hay feeding is recommended.	
 Trimming of hair is recommended 	
Cattle, Sheep Image: Sheep	
and Goat Faillers are advised to look for a sign especially during early more	
	-
or late evening and ensure breed	-
of the dairy cattle 12 hr a	ner
observation of heat.	
Breeding of the sheep/goat should	
done 24-30 hr after observation	of
heat.	
Feeding of concentrate feed al	•
with jaggery, mineral mixture salt.	and
 Periodic application of fly repelled 	ents
and/or netting of dung pit	
recommended.	are
Cattle Selanced feeding of dairy anim	nolo
and allow calf suckling immedia	
after parturition. Colostrum (1)	
three days milk) feeding to new b	
calf for first three days of life sho	Juid
be ensured.	1
Full hand milking should	be
practiced.	
Frequent incomplete milking	at
interval of 4hrs should be practi	
after parturition for minimum 1 we	
Afterwards complete milking in a	day
is recommended.	
PoultryCoccidiosis, RanikhetImage: 6 https://www.andlengine.comCoccidiosis, RanikhetImage: 6 https://www.andlengine.comImage: 6 https://www.andlengine.com	cal)
disease should be provided to adult birds	for
optimum egg production.	

		1		
				Frequent raking and liming of deep
				litter materials.
				Inclusion of turmeric powder @
				10g/kg feed for prevention of
				coccidiosis.
			٨	Maintenance of brooder temperature
				for chicks with the help of electrical
				bulbs for initial one month.
			٨	Ranikhet vaccination at 5 th day and at
				30 th day of age.
			٨	Calcium/shell grit and multi vitamin
				supplementation is strongly
				recommended to optimize egg
				production.
			٨	Spraying of ectoparasiticides viz.,
				deltamethrin/cypermethrin @ 1% v/v
				in water.
Pig	All stages	Swine fever	٨	Keep floor dry to avoid skin diseases.
			٨	Weaning is recommended at the age
				of 8 weeks for crossbreds and 10
				weeks for indigeneous pigs.
			٨	Swine fever vaccine at the age of 8-
				10 week is recommended.
			٨	Critical heat detection in early
				morning and late evening is
				recommended.
			٨	Feed 5-10% green fodder of their
				diet.
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