

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 30TH AUGUST TO 01ST SEPTEMBER'2016



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





ISSUED ON TUESDAY 30TH AUGUST'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	· · · ·	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			
26-8-2016	009	28.2	20.7	Rainfall	Moderate	Light	Moderate	Moderate	Light			
27-8-2016	000	32.2	19.4	Wind (Speed/ Dir)	3Km/Hr (S)	3Km/Hr (SW)	3Km/Hr (SSW)	2Km/Hr (S)	3Km/Hr (S)			
28-8-2016	000	30.1	20.8	Temperature (Min-Max)	20 - 28°C	19 - 28°C	19 - 27°C	19 - 27°C	19 - 28°C			
29-8-2016	025	29.1	20.5	RH (Min-Max)	78 - 92%	77 - 91%	80 - 94%	76 - 92%	77 - 91%			

Gangtok				East Sikkim Forecast							
Date	Rainfall		Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	e (mm) (°C)	(°C)	(°C)	Sky Condition	Cloudy	Generally Cloudy	Cloudy	Cloudy	Generally Cloudy		
26-8-2016	001	22.2	18.5	Rainfall	Light	Light	Light	Moderate	Light		
27-8-2016	006	26.3	17.2	Wind (Speed/ Dir)	2Km/Hr (SE)	3Km/Hr (ESE)	3Km/Hr (SSE)	2Km/Hr (ESE)	3Km/Hr (ESE)		
28-8-2016	000	24.4	19.5	Temperature (Min-Max)	18 - 22°C	18 - 22°C	18 - 22°C	18 - 22°C	18 - 23°C		
29-8-2016	019	22.7	18.8	RH (Min-Max)	80 - 94%	80 - 93%	82 - 95%	79 - 94%	81 - 90%		

Namthang				South Sikkim Forecast							
Date	Rainfall	Rainfall Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm) (°C)	(°C)	(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Cloudy	Generally Cloudy	Generally Cloudy		
26-8-2016	009	27.5	20.0	Rainfall	Moderate	Light	Moderate	Moderate	Light		
27-8-2016	000	32.0	19.0	Wind (Speed/ Dir)	3Km/Hr (SSE)	4Km/Hr (SSE)	3Km/Hr (S)	4Km/Hr (ESE)	3Km/Hr (SE)		
28-8-2016	000	31.5	19.0	Temperature (Min-Max)	19 - 28°C	19 - 27°C	18 - 27°C	18 - 27°C	19 - 28°C		
29-8-2016	000	28.5	18.5	RH (Min-Max)	80 - 92%	79 - 90%	83 - 93%	78 - 91%	78 - 89%		

Gyalshing (AWS)				West Sikkim Forecast						
Date	Rainfall		Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	(mm)	Rainfall (mm)Max. Temp (°C)	(°C)	Sky Condition	Cloudy	Generally Cloudy	Cloudy	Cloudy	Generally Cloudy	
26-8-2016	N/A	N/A	N/A	Rainfall	Light	Light	Light	Light	Light	
27-8-2016	N/A	N/A	N/A	Wind (Speed/ Dir)	3Km/Hr (S)	3Km/Hr (S)	3Km/Hr (SSW)	2Km/Hr (SE)	2Km/Hr (SE)	
28-8-2016	N/A	N/A	N/A	Temperature (Min-Max)	19 - 24°C	19 - 24°C	19 - 24°C	18 - 24°C	18 - 25°C	
29-8-2016	N/A	N/A	N/A	RH (Min-Max)	80 - 92%	80 - 90%	83 - 94%	78 - 92%	79 - 91%	

<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			
Rice	Vegetative stage	-	 Weeding should be done where crop is in vegetative stage (20-25 days after planting). Proper maintenance of field channel and bunds are necessary to utilize the rain water. Uprooted weeds may be left in between rows to decompose in standing flood water. Weeds may be incorporated into the soil under SRI.
Black gram	Seedling stage		 To avoid water logging proper drainage should be maintained. Timely sowing on ridges is recommended.

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Finger millet	Transplanting/			Land should be prepared for raising
	vegetative			of finger millet nursery
				/transplanting.
				Proper maintenance of field channel
				and bunds are necessary to utilize the
				rain water.
				Well decomposed FYM/poultry
				manure/ vermicompost or other
				available organic sources of nutrients
				may be broadcast and incorporated by
				ploughing.
				First weeding should be done upto 30
				days after transplanting.
				Maintain optimum plant population
				(20x15cm) for higher yield.
Rice bean	Vegetative stage			Proper staking should be done.
				Collection and destruction of Blister
				beetles and spraying of Neem oil
				@3ml/lit should be done.
Soybean	Land			Weeding should be done
	preparation/			Maintain optimum plant population.
	sowing			
Tomato	Flowering/	Fruit borer/ white fly/	٨	Infected/dried leaves should be
	fruiting/	late blight		pruned and spray COC @ 0.25% at 7-
	harvesting			10 days interval for management of
	C			late blight.
			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.
			۲	Installation of sex pheromone traps @
				2-3 traps/1000 sqm.
Red cherry	Vegetative/	Aphid/ white fly	٨	· ·
pepper/Dalley	flowering/			10 days interval for management of
chilli	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.
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Gourds (Bottle/	Flowering/	Fruit fly	۲	Proper drainage should be
bitter/ sponge/	fruiting			maintained.
ridge)			۲	Collection and destruction of infested
				fruit.
			٨	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	٨	Proper drainage should be ensured.
oniu	fruiting/	fly		Regular monitoring, collection and
Cucurbitaceous	harvesting	119	Ť	destruction of beetles.
crops	narvesting		۵	Install pheromone traps @ 16-20
			×	traps/ha for control of fruit fly. The
				lure has to be replaced at every 20
				days interval.
				Collect and destroy the infected
				fruits.
Large	Vegetative/	-		Planting of disease free sucker should
cardamom	floral bud			be done.
	formation			Apply well decomposed FYM @
				2kg/ vermicompost @ 200g and neem
				cake @ 150g per clump.
			۲	Removal and burying of blight
				infected leaves.
			۲	Weeding/ removal of infected tillers
				should be done.
			٨	Removal of infected leaves/ plant and
				spray with copper oxychloride @
				0.25 %.
Ginger	Vegetative	Soft rot		Proper drainage should be
- Singer	· ·B······	5011101	ľ	maintained.
			۵	Weeding and second mulching is
			Ť	recommended.
			۵	Removal of infected leaves/ plant and
			Ý	-
Siltin	Empit converte	Tmunk house/lasf		oxychloride @ 0.25 %.
Sikkim	Fruit growth	Trunk borer/ leaf	×	Tree trunk should be painted with 1%
mandarin		miner		Bordeaux paste.
		Scab and Felt disease		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.
			٨	Spray COC @ 0.25% after removing

		· · · · · · · · · · · · · · · · · · ·		
Kiwifruit	Fruiting		 F F	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. Plant basin should be kept weed free. Proper drainage should be maintained to avoid water stagnation. Basin should be weed free. Avoid FYM application near the tree trunk. To fertilize the crop, well
Animal Saina an			s S H C	decomposed FYM @ 10-20kg /plant should be applied in the basin of trees. Preventive spray of copper oxychloride @ 0.25 % and petroleum oil based agro spray @ 10 ml/l.
Animal Sciences			<u>-</u>	
Tibetan Sheep			, v	Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended.
Yak			\ ♦ I	Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended. Trimming of hair is recommended.
Cattle, Sheep and Goat			 I S C C	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.

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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.
			Ŵ	Full hand milking should be
				practiced.
			Ŵ	Frequent incomplete milking at
				interval of 4hrs should be practiced
				after parturition for minimum 1 week.
				Afterwards complete milking in a day
D 1				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.
			۵	Calcium/shell grit and multi vitamin
			Ť	supplementation is strongly
				recommended to optimize egg
				production.
			۲	Spraying of ectoparasiticides <i>viz.</i> ,
			Ť	deltamethrin/cypermethrin @ 1% v/v
				in water.
Pig	All stages	Swine fever	٨	Keep floor dry to avoid skin diseases.
1.8	- III Stugos			Weaning is recommended at the age
				of 8 weeks for crossbreds and 10
				weeks for indigenous pigs.
			۲	
				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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