

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 10TH OCTOBER TO 13TH OCTOBER'2016



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





ISSUED ON MONDAY 10TH 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

					North Sikkim Forecast						
	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	Light	Light	Light	Light	Light		
8-10-2016	20.2	26.3	16.4	Wind (Km/Hr) (Speed/ Dir)	2(S)	3(SSW)	3(S)	3(S)	2(SSE)		
9-10-2016	05.4	23.2	16.1	Temperature (Min-Max)	17 - 24°C	17 - 23°C	16 - 23°C	16 - 24°C	16 - 25°C		
10-10-2016	02.3	22.1	16.4	RH (Min- Max)	70 - 84%	73 - 88%	75 - 89%	70 - 78%	69 - 77%		

	Gangtok			East Sikkim Forecast						
	Gan	glok		Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Cloudy	Cloudy	Generally Cloudy	Generally Cloudy	
Date	(mm)	(°C)	(°C)	Rainfall	Light	Light	Light	Light	Light	
8-10-2016	04.2	22.4	17.2	Wind (Km/Hr) (Speed/ Dir)	2(SE)	3(SSW)	3(SSW)	2(SE)	2(E)	
9-10-2016	02.8	20.7	16.1	Temperature (Min-Max)	16 - 20°C	16 - 21°C	16 - 21°C	15 - 21°C	15 - 22°C	
10-10-2016	02.3	21.3	15.9	RH (Min- Max)	75 - 88%	79 - 92%	81 - 93%	79 - 90%	75 - 87%	

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	Namthang			South Sikkim Forecast							
				Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
	Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
	Date	(mm)	(°C)	(°C)	Rainfall	Light	Light	Light	Light	Light	
	8-10-2016	004	25.0	17.0	Wind (Km/Hr) (Speed/ Dir)	3(SSE)	2(SSW)	3(S)	3(SE)	3(ESE)	
	9-10-2016	000	27.0	18.0	Temperature (Min-Max)	16 - 25°C	16 - 24°C	16 - 24°C	15 - 25°C	15 - 26°C	
	10-10-2016	000	25.0	16.5	RH (Min- Max)	71 - 83%	77 - 88%	77 - 87%	72 - 81%	70 - 82%	

	Gyalshing (AWS)				West Sikkim Forecast						
G	yaishin	ig (Aws)		Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Cloudy	Cloudy	Generally Cloudy	Generally Cloudy		
Date	(mm)	(°C)	(°C)	Rainfall	Light	Light	Light	Light	Light		
8-10-2016	N/A	N/A	N/A	Wind (Km/Hr) (Speed/ Dir)	2(SE)	3(S)	2(SSE)	2(SSE)	3(SE)		
9-10-2016	N/A	N/A	N/A	Temperature (Min-Max)	17 - 23°C	17 - 22°C	16 - 22°C	16 - 23°C	16 - 23°C		
10-10-2016	N/A	N/A	N/A	RH (Min- Max)	72 - 84%	80 - 91%	78 - 92%	75 - 87%	73 - 86%		

<u>Part II</u>

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 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	Tillering/Panicle initiation stage	Leaf folder, Gandhi bug	 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. Spray neem based formulation (1500ppm) @ 3ml per litre of water for controlling leaf folder.

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				Maintain proper drainage for good
				tillering
Black gram	Vegetative/ Pod			To avoid water logging proper
	formation			drainage should be maintained.
				Weeding should be done.
			٨	Collection and destruction of Blister
				beetles and spraying of Neem oil
				@3ml/lit should be done.
Finger millet	Vegetative/Grain		٨	Proper maintenance of field channel
	formation			and bunds are necessary to utilize the
				rain water.
			٨	Maintain optimum plant population
				(20x15cm) for higher yield.
Rice bean	Vegetative/pod	Blister Beetle		Proper staking should be done.
The sound	formation	Dilister Deetre	ا	Collection and destruction of Blister
	- or matterion	Legume pod borer	Ť	beetles and spraying of Neem oil
				@3ml/lit should be done.
Soybean	Flowering/ Pod		٨	Weeding should be done
boybean	formation		٢	Maintain optimum plant population.
	Tormation		à	Uproot diseased plants.
			×	
Tomato	Flowering/	Fruit borer/ white fly/		Infected/dried leaves should be
	fruiting	late blight		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.
			٨	Installation of sex pheromone traps @
				2-3 traps/1000 sqm.
Red cherry	Vegetative/	Aphid/ white fly	٨	Drenching with COC @ 0.25% at 7-
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.
Gourds (Bottle/	Flowering/	Fruit fly	٨	Proper drainage should be
bitter/ sponge/	fruiting	5		maintained.
ridge)	0		٨	Collection and destruction of infested
			Ĺ	fruit.
			٨	Installation of para pheromone trap
			Ĺ	(cue lure) @ 16-20 traps/ha.
			٨	Regular harvesting should be done to
			Ľ	S

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			improve the yield.
Okra	Flowering/	Blister beetle/ friut	Proper drainage should be ensured.
~	fruiting/	fly	Regular monitoring, collection and
Cucurbitaceous	harvesting		destruction of beetles.
crops			♦ 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.
T	X 7 ((*)		
Large cardamom	Vegetative/ floral bud	-	Planting of disease free sucker should
caruamom	formation		be done.
	Tormation		Apply well decomposed FYM @
			2kg/ vermicompost @ 200g and neem
			cake @ 150g per clump.
			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	Vegetative	Soft rot	Proper drainage should be
0	0		maintained.
			Weeding and second mulching is
			recommended.
			 Removal of infected leaves/ plant and
			drenching/ spray with copper
			oxychloride @ 0.25 %.
Sikkim	Active fruit	Trunk borer/ leaf	 Tree trunk should be painted with 1%
			*
mandarin	growth	miner, scab, aphid	Bordeaux paste.
		and felt disease	 Plant basin should be kept weed free. Proper draine as should be answerd.
			 Proper drainage should be ensured. Ensure loss
			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

Kiwifruit	Active fruit	 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.
	growth	 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 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		
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 <i>viz.</i> ,
				deltamethrin/cypermethrin @ 1% v/v
Dia	A 11 at a	Contine former		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
			۵	weeks for indigenous pigs. Swine fever vaccine at the age of 8-
			v	10 week is recommended.
			۵	Critical heat detection in early
			v	morning and late evening is
				recommended.
			٨	Feed 5-10% green fodder of their
			Ť	diet.
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