

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



PERIOD: 18TH NOVEMBER TO 21ST NOVEMBER'2016

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





ISSUED ON FRIDAY 18TH NOVEMBER'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						
			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	No rain	No rain	No rain	No rain
15-11-2016	000	25.2	10.2	Wind (Km/Hr) (Speed/ Dir)	2(SW)	3(W)	3(W)	3(SW)	4(WSW)
16-11-2016	000	25.1	10.1	Temperature (Min-Max)	10 - 24°C	10 - 24°C	10 - 24°C	9 - 23°C	9 - 23°C
17-11-2016	000	25.1	09.3	RH (Min- Max)	57 - 78%	60 - 83%	59 - 85%	55 - 80%	56 - 78%

Congtoly			East Sikkim Forecast						
	Gangtok			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Б.	Rainfall	Max. Temp	Min. Temp	Sky Condition		Partly Cloudy	Partly Cloudy		
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain
15-11-2016	000	18.6	12.0	Wind (Km/Hr) (Speed/ Dir)	2(SSW)	2(SSE)	2(W)	2(SW)	3(WSW)
16-11-2016	000	17.9	09.7	Temperature (Min-Max)	10 - 18°C	10 - 18°C	10 - 17°C	9 - 17°C	9 - 17°C
17-11-2016	000	17.7	09.0	RH (Min- Max)	57 - 81%	62 - 85%	59 - 82%	55 - 76%	56 - 78%

Namthang			South Sikkim Forecast						
			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Mainly Clear	Partly Cloudy	Partly Cloudy	Partly Cloudy	Partly Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain
15-11-2016	000	22.5	10.0	Wind (Km/Hr) (Speed/ Dir)	2(SW)	2(S)	2(W)	3(SW)	3(WSW)
16-11-2016	000	21.0	12.0	Temperature (Min-Max)	11 - 21°C	11 - 22°C	11 - 21°C	10 - 21°C	10 - 21°C
17-11-2016	000	20.5	10.5	RH (Min- Max)	51 - 78%	56 - 82%	55 - 79%	51 - 73%	52 - 76%

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	Mainly Clear	Mainly Clear	Mainly Clear	Partly Cloudy	Partly Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	No rain	No rain	No rain	No rain	No rain
15-11-2016	N/A	N/A	N/A	Wind (Km/Hr) (Speed/ Dir)	2(W)	2(SSE)	2(W)	3(W)	3(WSW)
16-11-2016	N/A	N/A	N/A	Temperature (Min-Max)	10 - 20°C	9 - 20°C	9 - 19°C	9 - 19°C	9 - 19°C
17-11-2016	N/A	N/A	N/A	RH (Min- Max)	51 - 78%	58 - 83%	61 - 80%	57 - 77%	54 - 80%

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.
- Mulching should be done through locally available biomass to conserve soil moisture for rabi crops.
- Jalkund should be covered with thatch to prevent evaporation losses.
- **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.
- **W** 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	Harvesting		 Birds scaring ribbon should be used for scaring the birds. Harvesting should be done on sunny day atleast 15 cm above the ground for moisture conservation and no till pea and mustard/ toria sowing.
			♦ After sun drying harvested paddy is recommended to be stored at ≤ 14% moisture.

Black gram	Maturity/ Harvesting		 Periodic harvesting should be done when pod turns pale yellow colour. Harvested pods should be sun dried and stored at < 8% moisture level.
Finger millet	Grain formation and Harvesting		Regular field monitoring should be done.
Buckwheat	Sowing		 After field preparation FYM @ 2t/ha and vermicompost @ 1t/ ha should be applied. Sowing should be done in line at the spacing of 30x10cm.
Mustard/ Toria	Sowing		 ♦ After field preparation FYM @ 2t/ha and vermicompost @ 1t/ ha should be applied. ♦ Sowing should be done in line at the spacing of 30x10cm. ♦ Alternatively, sowing can also be done immediately after harvesting of rice under no till condition in between the rows (zero till).
Vegetable pea/ Field pea	Sowing		 Apply FYM @ 2 t/ha and vermicompost @ 1 t/ ha before sowing. Sowing should be done in line at the spacing of 30-40cm x 10cm. Soil moisture should be maintained for proper germination. Alternatively, sowing can also be done immediately after harvesting of rice under no till condition in between the rows (zero till).
Tomato	Flowering/ fruiting	Late blight	 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	Harvesting	Fruit fly	 Collection and destruction of infested dropped fruits. Regular harvesting should be done to improve the yield.

Winter	Nursery/	Fruit fly		Transplanting should be done in small
vegetables	Transplanting			pits filled with well decomposed FYM @
				2-2.5 kg/sqm., neem cake @ 200g/sqm.
				and Trichoderma @1-2 g/sqm should be
				mixed in soil before transplanting.
				Nursery can be raised for early winter
				vegetables like cabbage, cauliflower,
				broccoli, raya saag etc. Seed should be
				sown in moist soil in raised nursery bed
				of size 1x5m under protected condition.
			*	FYM @ 2kg/ sqm, neem cake @
				200g/sqm, Trichoderma @2% should be
				incorporated in soil before sowing seed.
				6 Regular watering in nursery is
				recommended.
Large	Post harvest crop	-	\Pi	5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6
cardamom	management		_	leaves.
			~	Weeding/ removal of infected tillers should be done.
				Regular watering should be done at 10-
			•	15 days intervals. Regular monitoring for
				pest and disease incidence.
				Shade management with the proper
				lopping.
Ginger	Seed rhizome			Identify healthy plants for seed
				rhizomes.
Sikkim	Fruit maturity /	Fruit drop		Collection of infected dropped fruit and
mandarin	Harvesting			buried in to soil.
				Regular monitoring for trunk borer
				infestation.
			*	Harvesting should be done along with
				twig with two leaves. Diseased and senile
Animal Sciences				branches should be removed.
				Fooding of consentrate for 1 -1.
Tibetan Sheep			-	Feeding of concentrate feed along
				with mineral mixture and salt.
Vols				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				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			\limits	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	\line{\pi}	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
D'	A 11	G : 6	•	in water.
Pig	All stages	Swine fever	*	r
			*	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. 	
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