

STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 19TH APRIL to 21ST APRIL'2016



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





ISSUED ON TUESDAY 19TH APRIL'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		Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	(mm)	(°C)	(°C)	Sky Condition	Generally Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
15-4-2016	021	25.3	11.5	Rainfall	Light	Light	Moderate	Moderate	Moderate	
16-4-2016	014	20.2	12.2	Wind (Speed/ Dir)	2Km/Hr (WNW)	3Km/Hr (SW)	4Km/Hr (SW)	4Km/Hr (SW)	5Km/Hr (SSW)	
17-4-2016	000	25.0	11.6	Temperature (Min-Max)	17 - 26°C	16 - 25°C	16 - 24°C	16 - 24°C	16 - 24°C	
18-4-2016	035	19.0	12.5	RH (Min-Max)	68 - 88%	70 - 88%	72 - 92%	75 - 92%	70 - 90%	

Gangtok				East Sikkim Forecast							
Rainfa	Rainfall	Rainfall (mm) (°C)	Min. Temp (°C)	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)			Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
15-4-2016	027	22.6	12.5	Rainfall	Light	Light	Light	Moderate	Light		
16-4-2016	063	18.0	13.4	Wind (Speed/ Dir)	2Km/Hr (WSW)	2Km/Hr (SSE)	3Km/Hr (S)	3Km/Hr (SSE)	3Km/Hr (S)		
17-4-2016	002	20.5	13.7	Temperature (Min-Max)	14 - 22°C	14 - 22°C	14 - 21°C	14 - 21°C	14 - 22°C		
18-4-2016	009	20.1	14.8	RH (Min-Max)	65 - 90%	65 - 88%	75 - 95%	78 - 92%	70 - 90%		

Namthang				South Sikkim Forecast							
Rainfall	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	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy			
15-4-2016	001	26.5	14.5	Rainfall	No rain	Very Light	Light	Light	No rain		
16-4-2016	000	23.0	16.0	Wind (Speed/ Dir)	2Km/Hr (WSW)	2Km/Hr (S)	2Km/Hr (SSW)	3Km/Hr (S)	3Km/Hr (SSW)		
17-4-2016	000	25.5	16.5	Temperature (Min-Max)	17 - 27°C	17 - 27°C	16 - 26°C	16 - 25°C	16 - 26°C		
18-4-2016	000	27.5	17.5	RH (Min-Max)	58 - 85%	60 - 85%	65 - 90%	70 - 90%	62 - 85%		

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	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
15-4-2016	010	23.9	12.1	Rainfall	Light	Moderate	Moderate	Moderate	Moderate	
16-4-2016	002	19.5	15.0	Wind (Speed/ Dir)	2Km/Hr (W)	3Km/Hr (SE)	3Km/Hr (WSW)	3Km/Hr (WSW)	4Km/Hr (WSW)	
17-4-2016	000	21.8	13.8	Temperature (Min-Max)	15 - 24°C	15 - 24°C	14 - 23°C	14 - 23°C	14 - 24°C	
18-4-2016	003	23.2	15.2	RH (Min-Max)	65 - 90%	70 - 90%	75 - 92%	75 - 90%	65 - 88%	

Part II

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- Spraying of plant protection biopesticides on bright sunny day for insect and disease management is recommended.
- **Vermicompost** pits should be covered with gunny bags / paddy straw/ dry forest litter to regulate the temperature.
- 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.
- Protect animals from cold by providing protective cover/ house and light.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Maize	Land preparation / sowing	Cut worm/ Army worm	 ♦ Apply well decomposed FYM @ 2.5 t/ha + mixed compost 2.5 t/ha + 0.5 t/ha neem cake and mix properly with soil 7-10 days before sowing. ♦ Apply dolomite @ 200 kg/ha in furrow before sowing. ♦ Seeds should be sown at 50 cm row to row and 20 cm plant to plant spacing, respectively. ♦ Take protection measure to save maize seedlings from birds. ♦ One hand weeding should be done after 20 days of sowing. ♦ Regular monitoring for insect-pest and collection and destruction should be done. ♦ Application of mixture of cow urine + water + neem oil (2 litre + 8 litre + 50 ml) @ 100 ml/plant for management of cut worm. ♦ For management of Army worm spray spinosad @ 0.3 ml/litre. ♦ Proper drainage should be ensured.

Tomato	Transplanting/ vegetative growth	•		Transplanting should be done under protected condition in small pits either in green house or rain shelter, if no option then in open condition. Well decomposed FYM along with vermicompost should be added in pits Spray COC @ 0.25% at 7-10 days interval for management of late
Dod abovey	Transplanting/	<	♦	blight. Proper drainage should be ensured. Transplanting should be done in
Red cherry pepper	Transplanting/ vegetative growth			small pits either in rain shelter or in open condition. Well decomposed FYM @ 0.5 kg along with 50-100 g vermicompost
		•	\	should be added in pits Spray COC @ 0.25% at 7-10 days interval for management of damping off.
				Apply <i>Trichoderma harzianum</i> @ 2.5 kg/50 kg of well decomposed FYM before planting
Olzmo	Nymaany naisin a/			Proper drainage should be ensured.
Okra	Nursery raising/ Sowing		~	Prepare 4 inch raised bed of 1 m x 5 m size for nursery raising.
Cucurbitaceous crops	Sowing		•	Bed should be prepared to a fine tilth by mixing well decomposed FYM @ 2 kg/m² and vermicompost @ 500 g/m² incubated with 2% <i>Trichoderma viride</i> for management of soil borne diseases.
		•	\oint\oint\oint\oint\oint\oint\oint\oint	Seed should be sown in line 4-5 cm
				apart at shallow depth 1-2 cm.
			\limits	Light irrigation should be provided immediately after seed sowing with rose can.
			\	Proper moisture should be maintained in nursery beds for better
		•	\	germination. If directly sowing in the well prepared field proper drainage should be ensured
Large	Flowering	•		Regular monitoring for pest and
cardamom				disease incidence.
			♥	Shade management with the proper lopping of trees.

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Cattle			 	Balanced feeding of dairy animals and allow calf suckling immediately after parturition. 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 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 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.