

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



PERIOD: 09TH MAY TO 11TH MAY'2017

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





ISSUED ON TUESDAY 09TH MAY'2017

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 Gyalshing
- 4) South District with HQ at Namchi

Mangan (PTO)			North Sikkim Forecast						
Data	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Date (mm) (°C)	(°C)	Sky Condition	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
5-5-2017	011	26.4	18.3	Rainfall	Moderate	Moderate	Moderate	Light	Light
6-5-2017	002	27.1	16.3	Wind (Speed/ Dir)	3Km/Hr (E)	4Km/Hr (ESE)	3Km/Hr (E)	3Km/Hr (ENE)	2Km/Hr (S)
7-5-2017	021	26.7	18.6	Temperature (Min-Max)	17 - 21°C	17 - 22°C	16 - 22°C	16 - 23°C	17 - 24°C
8-5-2017	000	26.3	18.5	RH (Min-Max)	80 - 95%	75 - 94%	80 - 94%	78 - 93%	74 - 92%

Gangtok			East Sikkim Forecast						
Data	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Date (mm) (°C)	(°C)	Sky Condition	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
5-5-2017	001	22.4	12.9	Rainfall	Moderate	Moderate	Moderate	Light	Light
6-5-2017	002	17.7	15.1	Wind (Speed/ Dir)	4Km/Hr (ENE)	3Km/Hr (ESE)	2Km/Hr (ENE)	3Km/Hr (ENE)	3Km/Hr (SSW)
7-5-2017	018	22.6	13.2	Temperature (Min-Max)	13 - 15°C	14 - 14°C	14 - 14°C	14 - 15°C	14 - 15°C
8-5-2017	000	23.0	15.6	RH (Min-Max)	80 - 96%	75 - 92%	80 - 95%	78 - 92%	74 - 91%

^{*}Hail storm/ Thunder storm is likely to occur at isolated places over the state on 09/05/2017 & 11/05/2017 (1ST Day) & ((3RD Day)

Namthang			South 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	
5-5-2017	005	26.5	13.5	Rainfall	Moderate	Light	Light	Light	Light
6-5-2017	000	22.5	14.5	Wind (Speed/ Dir)	3Km/Hr (ENE)	3Km/Hr (E)	2Km/Hr (ENE)	2Km/Hr (ENE)	3Km/Hr (SSW)
7-5-2017	001	22.5	12.0	Temperature (Min-Max)	17 - 20°C	16 - 19°C	16 - 20°C	17 - 20°C	17 - 20°C
8-5-2017	000	N/A	14.0	RH (Min-Max)	80 - 95%	75 - 94%	80 - 94%	78 - 93%	74 - 92%

Gyalshing (AWS)			West Sikkim Forecast						
Data	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Date (mm) (°C)	(°C)	(°C)	Sky Condition	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
5-5-2017	N/A	N/A	N/A	Rainfall	Moderate	Light	Moderate	Light	Light
6-5-2017	N/A	N/A	N/A	Wind (Speed/ Dir)	4Km/Hr (NNE)	3Km/Hr (ENE)	2Km/Hr (NE)	3Km/Hr (NE)	3Km/Hr (SW)
7-5-2017	N/A	N/A	N/A	Temperature (Min-Max)	14 - 16°C	14 - 15°C	14 - 15°C	14 - 16°C	14 - 16°C
8-5-2017	N/A	N/A	N/A	RH (Min-Max)	81 - 95%	75 - 92%	80 - 95%	78 - 92%	74 - 91%

^{*}Hail storm/ Thunder storm is likely to occur at isolated places over the state on 09/05/2017& 11/05/2017 (1ST Day)& ((3RD Day)

Part II

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops/livestock

- Spraying of plant protection bio-pesticides 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.
- De-worming with Fenbendazole @ 10 mg / kg body weight.
- Protect animals from rain and thunders by providing protective cover/ housing.
- Vaccination of the cattle, goat, yak and sheep should be done against FMD, HS and BQ.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Maize	Knee High stage		 ♦ Hand weeding should be done after 45 days of sowing. ♦ Regular monitoring for insect-pest and collection and destruction should be done. ♦ For management of Army worm/ stem borer spray spinosad @ 0.3 ml/litre. ♦ Proper drainage should be ensured.
Okra	Vegetative growth		Name where the Hand weeding should be done after 45 days of

Cucurbits Transplanting/ vegetative growth Trichoderma viride for management of soil borne diseases. About 15-20 cm (25-30 days) seedlings should be transplanted in small pits at spacing of 100 cm x 100 cm. For management of semi looper spray spinosad @ 0.3 ml/litre. Proper drainage should be ensured. Tomato/ Red cherry pepper Proper drainage should be ensured.			
Cucurbits Transplanting/vegetative growth Tomato/ Red cherry pepper Tomato/ Re			
Cucurbits Transplanting/ vegetative growth Bed should be prepared to a fine tilth by mixing well decomposed FYM @ 2 kg/m² and vermicompost @ 500 g/m² incubated with 5-10 % Trichoderma viride for management of soil borne diseases. About 15-20 cm (25-30 days) seedlings should be transplanted in small pits at spacing of 100 cm x 100 cm. For management of semi looper spray spinosad @ 0.3 ml/litre. Proper drainage should be ensured. Tomato/ Red cherry pepper rowth Tomato/ Red cherry pepper vegetative growth Proper drainage should be ensured. Proper drainage should be ensured. Preventive spray of copper oxychloride @ 2 g/ litre. For management of cut worm in cherry pepper spray neem based bio pesticide @ 7 ml/litre. Plant staking should be done with bamboo stick/ plastic			
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Large cardamom	Flowering	 Manuring with FYM mixed with bio fertilizer @ 2 kg/clump is recommended. Regular weeding should be done. Regular monitoring for pest and disease incidence. Shade management with the proper lopping of trees.
Ginger/ Turmeric	Vegetative growth	 Forest litter @ 1 kg/ sqm should be applied as mulch material. Proper drainage should be ensured.
Sikkim Mandarin	Fruit set	 Proper drainage should be ensured. Intercropping of ginger, turmeric and maize should be avoided. Preventive spray of copper oxychloride @ 2 g/ litre and neem formulations @ 5 ml/litre for disease and pest management, respectively.
Kiwi fruit Animal Science	Flowering/ fruit set	 Mounting of hail net/ Agro shade net 50% on the trees to avoid plant damage from hails /heavy rainfall. Hand pollination should be done for proper fruit set. Proper drainage should be ensured.

Tibetan Sheep	 Feeding of 200 g concentrate feed along with mineral mixture and salt. Shearing of sheep should be ensured before onset of heavy rainfall.
Yak	♦ Trimming of coarse fiber should be ensured before onset of heavy rainfall.
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 after 12 hr of observation of heat. Breeding of the sheep/goat should be done after 24-30 hr of 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 @ 3 kg / cattle as maintenance and @ 1 kg /2.5 liter milk production as production ration over and above the maintenance ration. 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		Cocciodiosis , Ranikhet disease	 16 hrs of light (natural and electrical) 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 cocciodiosis. Maintenance of brooder temperature for chicks with the help of electrical bulbs for initial one month. Vaccinate the chicks against ND / RD at 5- 7 day and at 30th day of age. Calcium/shell grit and multi vitamin supplementation is strongly recommended to optimize egg production. Spraying of ectoparasiticides viz., deltamethrin/cypermethri
Pig	All stages	Swine fever	 n @ 1% v/v in water. Keep floor dry to avoid skin diseases. 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.

Agro-Met Advisory member of ICAR-NOFRI, Tadong, Sikkim

Name	Designation	Department
1. Dr. R. K. Avasthe	Joint Director	Soil Science
2. Dr. Ashish Yadav	Senior Scientist	Horticulture
3. Dr. Raghavendra Singh	Senior Scientist	Agronomy
4. Dr. Rafiqul Islam	Senior Scientist	Animal Reproduction
5. Dr. Matber Singh	Scientist, SS	Agro forestry
6. Dr. Brijesh Kumar	Scientist	Animal Reproduction
7. Dr. Shweta Singh	Scientist	Plant Pathology
8. Dr. Chandramani Raj	Scientist	Plant Pathology
9. Mr. Boniface Lepcha	SMS	Horticulture

Miss Yamuna Pandey
(Technical Officer, GKMS)
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