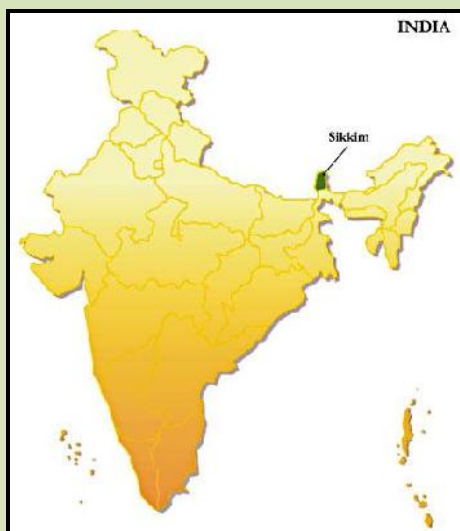




STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 24TH MAY to 26TH MAY'2016



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



ISSUED ON TUESDAY 24TH MAY'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 Gyalshing
- 4) South District with HQ at Namchi

Mangan (PTO)				North Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Cloudy	Generally Cloudy	Cloudy	Cloudy	Generally Cloudy
20/5/2016	088	20.0	12.4	Rainfall	Light	Light	Light	Light	Light
21/5/2016	027	28.1	11.6	Wind (Speed/ Dir)	4Km/Hr (S)	3Km/Hr (SSE)	3Km/Hr (E)	3Km/Hr (ENE)	3Km/Hr (S)
22/5/2016	000	26.3	13.5	Temperature (Min-Max)	16 - 26°C	16 - 25°C	16 - 24°C	16 - 24°C	16 - 25°C
23/5/2016	000	32.1	13.4	RH (Min-Max)	75 - 93%	70 - 92%	71 - 93%	71 - 95%	74 - 90%

Gangtok				East Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Cloudy	Generally Cloudy	Cloudy	Cloudy	Generally Cloudy
20/5/2016	055	17.3	14.7	Rainfall	Light	Light	Light	Light	Light
21/5/2016	021	23.6	14.0	Wind (Speed/ Dir)	3Km/Hr (S)	3Km/Hr (E)	2Km/Hr (ENE)	2Km/Hr (E)	3Km/Hr (SE)
22/5/2016	000	20.8	15.8	Temperature (Min-Max)	15 - 19°C	15 - 19°C	15 - 18°C	15 - 18°C	16 - 19°C
23/5/2016	001	25.4	16.2	RH (Min-Max)	75 - 90%	70 - 92%	76 - 95%	75 - 95%	74 - 90%

Namthang				South Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
20/5/2016	004	26.0	18.0	Rainfall	Light	Light	Light	Light	Light
21/5/2016	005	N/A	16.5	Wind (Speed/ Dir)	3Km/Hr (SSW)	3Km/Hr (E)	3Km/Hr (ENE)	2Km/Hr (E)	3Km/Hr (SE)
22/5/2016	N/A	26.0	N/A	Temperature (Min-Max)	18 - 26°C	18 - 25°C	18 - 25°C	18 - 26°C	18 - 26°C
23/5/2016	000	27.5	19.5	RH (Min-Max)	70 - 88%	65 - 85%	70 - 89%	73 - 89%	63 - 84%

Gyalshing (AWS)				West Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Generally Cloudy	Generally Cloudy	Cloudy	Cloudy	Generally Cloudy
20/5/2016	014	16.5	15.6	Rainfall	Light	Light	Light	Light	Light
21/5/2016	020	25.0	14.0	Wind (Speed/ Dir)	3Km/Hr (W)	4Km/Hr (E)	3Km/Hr (NE)	2Km/Hr (ENE)	3Km/Hr (SE)
22/5/2016	031	22.6	15.1	Temperature (Min-Max)	15 - 23°C	15 - 23°C	15 - 22°C	15 - 22°C	16 - 23°C
23/5/2016	000	27.1	16.8	RH (Min-Max)	75 - 90%	70 - 92%	76 - 95%	75 - 95%	74 - 90%

Part II

AGRO-METEOROLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- ❖ 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 waterlogging in maize, ginger, turmeric and summer vegetables.
- ❖ 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.
- ❖ 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 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.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Maize	Vegetative stage	Cut worm/ Army worm	<ul style="list-style-type: none">❖ Hand weeding should be done after 20 and 40 days of sowing.❖ Application of vermicompost and poultry manure should be done at knee high stage followed by earthing up.❖ Regular monitoring for insect-pest and collection and destruction should be done.❖ Application of spinosad 45 SC @ 3 ml/10 litre or neem oil (1500 ppm) @ 5 ml/litre for management of army worm, semilooper etc at 15 days interval for 2-3 times.

Tomato	Vegetative/ flowering		<ul style="list-style-type: none"> ◆ Infected/dried leaves should be pruned and spray COC @ 0.25% at 7-10 days interval for management of late blight.
Red cherry pepper	Vegetative/ flowering		<ul style="list-style-type: none"> ◆ Drenching with COC @ 0.25% at 7-10 days interval for management of root rot. ◆ 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.
Okra Cucurbitaceous crops	Vegetative		<ul style="list-style-type: none"> ◆ Proper drainage should be ensured. ◆ Hand weeding at 15 days interval.
Large cardamom	Flowering		<ul style="list-style-type: none"> ◆ Application of COC @ 0.25% at monthly interval for management of flower and capsule rot. ◆ Shade management with the proper lopping of trees.
Ginger	Emergence		<ul style="list-style-type: none"> ◆ Forest litter should be collected and used as mulching material. ◆ Proper drainage should be ensured. ◆ Hand weeding at 15 days interval.
Sikkim Mandarin	Fruit set/ fruit growth		<ul style="list-style-type: none"> ◆ Tree trunk should be painted with 1% Bordeaux mixture. ◆ Plant basin should be kept weed free. ◆ Proper drainage should be ensured.
Kiwifruit	Vegetative growth/ Flowering		<ul style="list-style-type: none"> ◆ Hand pollination should be done early in the morning for higher fruit set. ◆ If possible kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm ◆ Plant basin should be kept weed free. ◆ Proper drainage should be ensured.
Animal Sciences			
Tibetan Sheep			<ul style="list-style-type: none"> ◆ Feeding of concentrate feed along with mineral mixture and salt. ◆ Hay feeding is recommended.
Yak			<ul style="list-style-type: none"> ◆ Feeding of concentrate feed along with mineral mixture and salt. ◆ Hay feeding is recommended. ◆ Trimming of hair is recommended.

Cattle, Sheep and Goat			<ul style="list-style-type: none"> ◆ 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			<ul style="list-style-type: none"> ◆ 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 disease	<ul style="list-style-type: none"> ◆ 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 coccidiosis. ◆ Maintenance of brooder temperature for chicks with the help of electrical bulbs for initial one month. ◆ Ranikhet vaccination at 5th 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/cypermethrin @ 1% v/v

			in water.
Pig	All stages	Swine fever	<ul style="list-style-type: none"> ◆ 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.