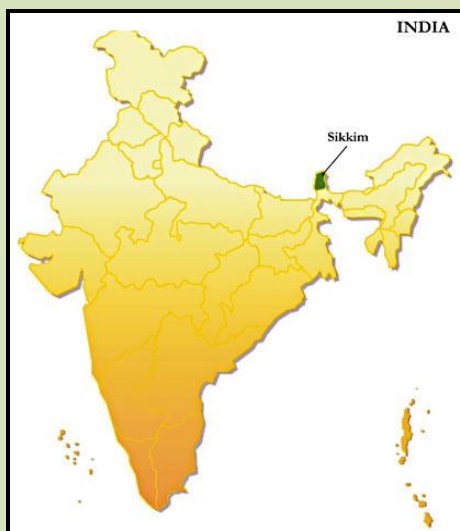




# STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 06<sup>TH</sup> MAY to 09<sup>TH</sup> MAY'2016



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



**ISSUED ON FRIDAY 06<sup>TH</sup> 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					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	Moderate	Moderate	Light	Moderate	Moderate
3/5/2016	N/A	N/A	N/A	Wind (Km/Hr) (Speed/ Dir)	3(S)	4(SE)	4(ENE)	5(NE)	4(NE)
4/5/2016	N/A	N/A	N/A	Temperature (Min-Max)	16 - 23°C	16 - 24°C	17 - 26°C	17 - 26°C	17 - 26°C
5/5/2016	N/A	N/A	N/A	RH (Min- Max)	62 - 88%	52 - 88%	55 - 85%	58 - 80%	60 - 85%

Gangtok				East Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	Moderate	Moderate	Light	Moderate	Moderate
3/5/2016	000	21.8	15.2	Wind (Km/Hr) (Speed/ Dir)	3(ENE)	3(E)	3(S)	4(ENE)	2(E)
4/5/2016	003	19.5	14.6	Temperature (Min-Max)	13 - 20°C	13 - 21°C	14 - 21°C	14 - 22°C	15 - 23°C
5/5/2016	026	21.6	14.0	RH (Min- Max)	70 - 90%	65 - 92%	60 - 88%	58 - 85%	55 - 85%

Namthang				South Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	Light	Moderate	Light	Moderate	Moderate
3/5/2016	000	28.0	15.0	Wind (Km/Hr) (Speed/ Dir)	4(ESE)	4(E)	3(SE)	4(ENE)	4(ENE)
4/5/2016	000	28.0	15.5	Temperature (Min-Max)	16 - 24°C	16 - 26°C	16 - 27°C	17 - 27°C	17 - 27°C
5/5/2016	000	27.5	16.0	RH (Min- Max)	64 - 92%	65 - 88%	58 - 82%	58 - 85%	62 - 90%

Gyalshing (AWS)				West Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	Moderate	Moderate	Light	Moderate	Moderate
3/5/2016	000	24.7	14.2	Wind (Km/Hr) (Speed/ Dir)	3(ESE)	4(NNE)	4(ENE)	4(NE)	4(NE)
4/5/2016	015	19.0	13.0	Temperature (Min-Max)	14 - 21°C	14 - 22°C	14 - 24°C	14 - 24°C	14 - 25°C
5/5/2016	001	24.3	13.0	RH (Min- Max)	70 - 87%	65 - 85%	55 - 85%	58 - 82%	55 - 88%

## **Part II**

### **AGRO-METEOREOLOGICAL 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
<b>Crops</b>			
Maize	Vegetative stage	Cut worm/ Army worm	<ul style="list-style-type: none"><li>❖ Hand weeding should be done after 20 and 40 days of sowing.</li><li>❖ Application of vermicompost and poultry manure should be done at knee high stage followed by earthing up.</li><li>❖ Regular monitoring for insect-pest and collection and destruction should be done.</li><li>❖ 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.</li></ul>
Tomato	Vegetative/		<ul style="list-style-type: none"><li>❖ Infected/dried leaves should be pruned and spray COC @ 0.25% at 7-</li></ul>

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

			<p>of the dairy cattle 12 hr after observation of heat.</p> <ul style="list-style-type: none"> <li>◆ Breeding of the sheep/goat should be done 24-30 hr after observation of heat.</li> <li>◆ Feeding of concentrate feed along with jaggery, mineral mixture and salt.</li> <li>◆ Periodic application of fly repellents and/or netting of dung pit are recommended.</li> </ul>
Cattle			<ul style="list-style-type: none"> <li>◆ 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.</li> <li>◆ Full hand milking should be practiced.</li> <li>◆ Frequent incomplete milking at interval of 4hrs should be practiced after parturition for minimum 1 week. Afterwards complete milking in a day is recommended.</li> </ul>
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> <li>◆ 16 hrs of light (natural and electrical) should be provided to adult birds for optimum egg production.</li> <li>◆ Frequent raking and liming of deep litter materials.</li> <li>◆ Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis.</li> <li>◆ Maintenance of brooder temperature for chicks with the help of electrical bulbs for initial one month.</li> <li>◆ Ranikhet vaccination at 5<sup>th</sup> day and at 30<sup>th</sup> day of age.</li> <li>◆ Calcium/shell grit and multi vitamin supplementation is strongly recommended to optimize egg production.</li> <li>◆ Spraying of ectoparasiticides viz., deltamethrin/cypermethrin @ 1% v/v in water.</li> </ul>
Pig	All stages	Swine fever	<ul style="list-style-type: none"> <li>◆ Keep floor dry to avoid skin diseases.</li> <li>◆ Weaning is recommended at the age</li> </ul>

			<p>of 8 weeks for crossbreds and 10 weeks for indigeneous pigs.</p> <ul style="list-style-type: none"> <li>◆ Swine fever vaccine at the age of 8-10 week is recommended.</li> <li>◆ Critical heat detection in early morning and late evening is recommended.</li> <li>◆ Feed 5-10% green fodder of their diet.</li> </ul>
--	--	--	--