

## STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 01<sup>ST</sup> APRIL to 04<sup>TH</sup> APRIL'2016



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





#### ISSUED ON FRIDAY 01ST 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							
	Mangai			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
Date	(mm)	(°C)	(°C)	Rainfall	Moderate	Light	Light	Moderate	Moderate		
29/3/2016	015	25.3	10.1	Wind (Km/Hr) (Speed/ Dir)	3(SSE)	3(SSE)	2(SE)	2(W)	3(SW)		
30/3/2016	000	24.3	10.5	Temperature (Min-Max)	11 - 24°C	11 - 25°C	11 - 25°C	11 - 24°C	11 - 24°C		
31/3/2016	043	20.1	10.4	RH (Min- Max)	65 - 86%	60 - 82%	70 - 87%	75 - 92%	68 - 90%		

	Congtoly			East Sikkim Forecast							
Gangtok		Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5				
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
Date	(mm)	(°C)	(°C)	Rainfall	Light	Very Light	Light	Moderate	Moderate		
29/3/2016	005	20.3	09.7	Wind (Km/Hr) (Speed/ Dir)	3(ESE)	2(SSE)	2(SE)	3(S)	3(SSW)		
30/3/2016	000	16.9	13.4	Temperature (Min-Max)	11 - 20°C	12 - 21°C	12 - 21°C	12 - 20°C	11 - 20°C		
31/3/2016	045	15.7	10.2	RH (Min- Max)	62 - 87%	60 - 82%	60 - 90%	65 - 92%	65 - 90%		

					South Sikkim Forecast						
Namthang		Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5				
Date	Rainfall	Max. Temp (°C)	Min. Temp	Sky Condition	Generally Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
Date	(mm)		(°C)	Rainfall	No rain	No rain	Light	Moderate	Very Light		
29/3/2016	001	24.0	12.0	Wind (Km/Hr) (Speed/ Dir)	3(ESE)	4(SSE)	4(ESE)	6(SW)	4(SW)		
30/3/2016	000	24.0	16.5	Temperature (Min-Max)	14 - 24°C	14 - 25°C	15 - 25°C	15 - 24°C	14 - 24°C		
31/3/2016	001	21.5	13.5	RH (Min- Max)	40 - 75%	38 - 68%	65 - 85%	65 - 88%	62 - 84%		

Gyalshing (AWS)			West Sikkim Forecast						
			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Generally Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
Date	(mm)	(°C)	(°C)	Rainfall	Very Light	Very Light	Light	Moderate	Moderate
29/3/2016	004	22.1	09.2	Wind (Km/Hr) (Speed/ Dir)	3(ENE)	4(E)	4(ENE)	4(NW)	5(W)
30/3/2016	000	19.7	13.8	Temperature (Min-Max)	12 - 23°C	12 - 24°C	13 - 23°C	13 - 23°C	13 - 23°C
31/3/2016	021	18.3	12.7	RH (Min- Max)	50 - 78%	50 - 75%	60 - 90%	65 - 92%	65 - 85%

# <u>Part II</u>

#### 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	<ul> <li>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.</li> <li>Apply dolomite @ 200 kg/ha in furrow before sowing.</li> <li>Seeds should be sown at 50 cm row to row and 20 cm plant to plant spacing, respectively.</li> <li>Take protection measure to save maize seedlings from birds.</li> <li>One hand weeding should be done after 20 days of sowing.</li> <li>Regular monitoring for insect-pest and collection and destruction should be done.</li> <li>Application of mixture of cow urine + water + neem oil (2 litre + 8 litre + 50 ml) @ 100 ml/plant for management of cut worm.</li> <li>For management of Army worm spray spinosad @ 0.3 ml/litre.</li> <li>Proper drainage should be ensured.</li> </ul>
			• Topor dramage should be clisuicu.

Tomato	Transplanting/	۲	Transplanting should be done under
	vegetative		protected condition in small pits
	growth		either in green house or rain shelter, if
			no option then in open condition.
		٨	Well decomposed FYM along with
			vermicompost should be added in pits
		٨	Spray COC @ 0.25% at 7-10 days
			interval for management of late
			blight.
		٨	Proper drainage should be ensured.
Red cherry	Transplanting/	٨	
pepper	vegetative	Ť	small pits either in rain shelter or in
Pepper	growth		open condition.
	Siowin	۵	Well decomposed FYM @ 0.5 kg
		Ť	along with 50-100 g vermicompost
			should be added in pits
		٨	Spray COC @ 0.25% at 7-10 days
		Ť	interval for management of damping
			off.
		۲	Apply Trichoderma harzianum @ 2.5
			kg/50 kg of well decomposed FYM
			before planting
		٨	Proper drainage should be ensured.
Okra	Nursery raising/		
	Sowing		m size for nursery raising.
Cucurbitaceous	8	۲	Bed should be prepared to a fine tilth
crops			by mixing well decomposed FYM @
			$2 \text{ kg/m}^2$ and vermicompost @ 500
			$g/m^2$ incubated with 2% <i>Trichoderma</i>
			<i>viride</i> for management of soil borne
			diseases.
		۲	Seed should be sown in line 4-5 cm
		Ť	apart at shallow depth 1-2 cm.
		۲	Light irrigation should be provided
		Ť	immediately after seed sowing with
			rose can.
		٨	Proper moisture should be maintained
		Ý	in nursery beds for better
			germination.
		۵	If directly sowing in the well
		×	
			prepared field proper drainage should be ensured
Lorge	Flowering		
Large cardamom	Flowering	×	Regular monitoring for pest and
cardamoni			disease incidence.
		~	Shade management with the proper
			lopping of trees.

	T T		
Ginger	Planting	Healthy rhizomes for planting mater	
		should be kept in partial shade	for
		better sprouting.	
		$\clubsuit$ Forest litter should be collected w	ell
		in advance as mulching material.	
		Apply well decomposed FYM @ 2	0-
		25 t/ha + 1.0 t/ha neem cake and m	ix
		properly with soil 7-10 days befo	re
		sowing.	
		Stream Broadcast dolomite @ 2 t/ha 7-	-10
		days before sowing and mix prope	rly
		with soil.	
Sikkim	Flowering/ Fruit	Tree trunk should be painted with	1%
Mandarin	set	Bordeaux mixture.	
		Plant basin should be kept weed free	
		Proper drainage should be ensured.	
Kiwi fruit	Vegetative	♦ If possible kiwi fruit vine should	be
	growth/	covered with 50% shade net to prot	ect
	Flowering	flowers from heavy rain and hail sto	
	C	Plant basin should be kept weed free	
		Proper drainage should be ensured.	
Animal Sciences			
Tibetan Sheep		Feeding of concentrate feed along	ησ
ribetan bheep		+ recarding of concentrate feed along	-8
		with mineral mixture and salt	
		with mineral mixture and salt.	
Vak		Hay feeding is recommended.	19
Yak		<ul><li>Hay feeding is recommended.</li><li>Feeding of concentrate feed alor</li></ul>	ıg
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Cattle, Sheep		<ul> <li>Hay feeding is recommended.</li> <li>Feeding of concentrate feed alon with mineral mixture and salt.</li> <li>Hay feeding is recommended.</li> <li>Trimming of hair is recommended.</li> <li>Farmers are advised to look for here</li> </ul>	at
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Cattle			<b></b>	Balanced feeding of dairy animals and allow calf suckling immediately after parturition.
			<b></b>	Full hand milking should be practiced.
			٢	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	<b></b>	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.
			۲	Maintenance of brooder temperature for chicks with the help of electrical
			۲	bulbs for initial one month. Ranikhet vaccination at 5 <sup>th</sup> day and at 30 <sup>th</sup> day of age.
				Calcium/shell grit and multi vitamin supplementation is strongly
			۲	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.
	U			Weaning is recommended at the age of 8 weeks for crossbreds and 10
			٩	weeks for indigeneous pigs. Swine fever vaccine at the age of 8- 10 week is recommended.
			۲	Critical heat detection in early morning and late evening is
			٢	recommended. Feed 5-10% green fodder of their diet.