

## STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 13<sup>TH</sup> FEBRUARY'15 – 16<sup>TH</sup> FEBRUARY'15



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





### **ISSUED ON "FRIDAY 13TH FEBRUARY'2015**

## **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

					North Sikkim Forecast						
Mangan (AWS)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5			
Date	Rainfall	Max. Temp	Max. Temp	Max. Temp Min. Ter	Min. Temp	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Partly Cloudy	Partly Cloudy
Date	(mm)	(°C)	C) (°C)	Rainfall	Light	Very Light	No rain	No rain	No rain		
10-2-2015	000	19.1	08.0	Wind (Km/Hr) (Speed/ Dir)	2(SSE)	2(NNE)	3(S)	2(SE)	2(SE)		
11-2-2015	000	19.4	09.8	Temperature (Min-Max)	8 - 18°C	8 - 18°C	8 - 19°C	9 - 19°C	9 - 19°C		
12-2-2015	000	18.0	09.5	RH (Min- Max)	75 - 92%	75 - 92%	70 - 85%	65 - 85%	60 - 80%		

Constaly			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	Generally Cloudy	Generally Cloudy	Partly Cloudy	Partly Cloudy	
Date	(mm)	(°C)	(°C)	Rainfall	Very Light	Very Light	No rain	No rain	No rain	
10-2-2015	000	15.1	07.1	Wind (Km/Hr) (Speed/ Dir)	2(E)	2(NE)	3(S)	1(E)	2(ENE)	
11-2-2015	000	14.8	08.4	Temperature (Min-Max)	5 - 14°C	5 - 14°C	5 - 14°C	6 - 15°C	6 - 15°C	
12-2-2015	000	14.5	07.7	RH (Min- Max)	75 - 92%	75 - 90%	70 - 85%	65 - 80%	60 - 80%	

	Namthang			South Sikkim Forecast							
				Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
	Date Rainfall (mm)	Max. Temp (ºC)	Min. Temp (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Partly Cloudy	Partly Cloudy		
				Rainfall	Light	Very Light	No rain	No rain	No rain		
10	0-2-2015	000	18.2	07.5	Wind (Km/Hr) (Speed/ Dir)	2(ESE)	2(NNE)	3(SSW)	2(E)	2(E)	
11	1-2-2015	000	16.5	09.0	Temperature (Min-Max)	6 - 17°C	6 - 17°C	7 - 18°C	7 - 18°C	7 - 18°C	
12	2-2-2015	000	16.8	07.2	RH (Min- Max)	70 - 90%	65 - 85%	60 - 80%	55 - 75%	55 - 70%	

Cuclobing (AMC)			West Sikkim Forecast						
	<b>Gyalshing (AWS)</b>			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	Partly Cloudy	Partly Cloudy
	(mm)	(°C)	(°C)	Rainfall	Light	Very Light	No rain	No rain	No rain
10-2-2015	000	17.6	07.1	Wind (Km/Hr) (Speed/ Dir)	2(NE)	2(NNE)	3(SW)	2(NNE)	2(NNE)
11-2-2015	000	17.9	07.8	Temperature (Min-Max)	5 - 17°C	5 - 17°C	5 - 18°C	6 - 18°C	6 - 18°C
12-2-2015	000	16.7	07.5	RH (Min- Max)	70 - 95%	70 - 90%	65 - 80%	60 - 80%	60 - 80%

# <u>Part II</u>

## AGRO-METEREOLOGICAL ADVISORIES

#### **General Advisories for all the crops**

- Solution Of soil moisture through locally available biomass mulching in all the crops.
- Preventive spray and soil drenching with copper oxychloride @2.5 g/l of water at weekly intervals.
- Spraying of plant protection biopesticides in the evening.
- Utilization of harvested water stored in various structures like *Jalkund* is recommended through drip and sprinkler irrigation system for cultivation of *Rabi* crops.
- Incorporate organic sources of nutrients (FYM, Vermicompost, Poultry manure, Pig manure, Goat/ Sheep manure, Mixed compost, Neem cake *etc.*) in to the soil for cultivation of all *Rabi* crops.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Rapeseed and mustard	Flowering /Pod formation stage	Aphid	<ul> <li>One irrigation is recommended to avoid moisture stress.</li> <li>Remove the infected inflorescence/ pod.</li> <li>Spray Neem based formulation @3ml/lit for the management of aphid.</li> </ul>
Buckwheat	Flowering / grain filling		Regular monitoring of crop.
Garden pea	vegetative/ flowering/ harvesting	<ul> <li>Rust</li> <li>With the second seco</li></ul>	<ul> <li>Hand weeding should be done to reduce the weed pressure.</li> <li>Weeded plants can be used as surface mulch to conserve soil moisture.</li> <li>One irrigation is recommended to avoid moisture stress.</li> <li>Preventive spray with 0.25% wettable sulphur for the management of rust and powdery mildew.</li> <li>Pod harvesting should be done carefully to avoid plant damage.</li> </ul>

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		<ul> <li>Powdery mildew Disease</li> <li>Disease</li> <li>Disease</li> <li>Disease</li> </ul>	
Large cardamom	Vegetative/ floral bud formation		<ul> <li>Removal and burying of blight infected leaves.</li> <li>Two irrigations in a month are recommended.</li> <li>Field sanitation and removal of unproductive tillers.</li> </ul>
Ginger	Storage		Harvested rhizome should be dried for two weeks under shade condition and stored in cool and dry place for seed material.
Cole crops	Vegetative/ Harvesting	<ul> <li>Damping off</li> <li>Output of the second second</li></ul>	<ul> <li>Drenching with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1% at 10 days interval for the management of damping off and root rot.</li> <li>Removal of club root infected plant and drenching with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1%.</li> <li>Application of Neem cake/ mustard oil cake @ 50kg/1000sqm.</li> <li>Drenching of plant with mixture of water, cow urine and Neem oil 8 litre, 2 litre and 50 ml, respectively at weekly interval to avoid red ant and cut worms.</li> <li>Earthing up for early transplanted crop is recommended.</li> <li>Over watering should be avoided.</li> </ul>

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Tomato	Nursery/	Late blight of		Seed should be sown for commercial
	vegetative /	tomato		production in raised bed of 4 inches
	fruiting	A CONTRACTOR		and 1m width.
		and the stand of the		Seed treatment with Trichoderma
				viride @ 4g/kg seed.
				Soil treatment with Trichoderma
		and the second second		viride @ 2.5 kg/50kg FYM or sand.
			٨	Bed should be prepared to a fine tilth
				and incorporate well decomposed
				FYM @ 2kg/sqm.
			٨	Regular watering should be done.
			۲	Removal of diseased leaves and
				branches and weekly spraying of
				copper oxychloride @ 0.25% for the
				management of late blight disease.
Potato	vegetative	Late blight of	٨	Removal of diseased leaves and
1 0 0000	, egotati , e	potato	ľ	branches and weekly spraying of
		poullo		copper oxychloride @ 0.25% for the
		C. S. Carlos and		management of late blight disease.
			۲	Regular watering should be done
				Decular weading should be done and
			×	Regular weeding should be done and followed by earthing up.
				tonowed by earthing up.
Sikkim	Nursery stage		۲	Seeds of elite mother plant should be
Mandarin				sown in raised nursery bed for raising
				nucellar seedlings.
			۲	Nursery bed should be prepared with
				mixing of sand, FYM and soil at the
				ratio of 2:1:1.
			٨	Diseased and unwanted branches
				should be removed and spray with
				copper oxychloride @ 0.25 %.
			٨	Well decomposed FYM @ 10-20kg
				/plant should be applied in the basin of
				trees.
			٨	Avoid FYM application near the tree
				trunk.
			٨	Regular watering should be done.
Kiwi fruit	Training			Dormant kiwi fruit plant should be
1xiwi iluit	/Pruning		v	pruned to give proper shape to the
	/ I fulling			vine.
			٨	Well decomposed FYM @ 10-20kg
			×	
				/plant should be applied in the basin of
				trees.
			V	Avoid FYM application near the tree
				trunk.

Animal Scie	nces			
Tibetan Sheep	Sheared sheep		<b></b>	Provide winter shelter for lambs.
Yak	Pregnancy	Weight gain	<ul> <li></li> <li><th>Pregnancydiagnosisisrecommended.Feeding of concentrate feed alongwith mineral mixture and salt.Provide winter shelter for calves.</th></li></ul>	Pregnancydiagnosisisrecommended.Feeding of concentrate feed alongwith mineral mixture and salt.Provide winter shelter for calves.
Cattle, Sheep and Goat	All stages		\$	Chances of coming into estrus so farmers are advised to look for heat sign especially during early morning or late evening and ensure breeding of the animal after 12 hr of 1 <sup>st</sup> heat observe. Feeding of colostrums within 2 hrs of birth. Feeding of concentrate feed along with jaggery, mineral mixture and salt. De-worming with Fenbendazole @ 10 mg / kg body weight.
Poultry	All stages	High humidity	<ul> <li></li> <li><td>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. Ranikhet vaccination at 5<sup>th</sup> day and at 30<sup>th</sup> day of age. Calcium and multi vitamin supplementation is strongly recommended to optimize egg production.</td></li></ul>	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. Ranikhet vaccination at 5 <sup>th</sup> day and at 30 <sup>th</sup> day of age. Calcium and multi vitamin supplementation is strongly recommended to optimize egg production.
Pig	All stages		* *	Keep floor dry to avoid skin diseases. De-worming with Fenbendazole @ 10 mg / kg body weight. Swine fever vaccine at the age of 8- 10 week is recommended.