





### ISSUED ON "TUESDAY 24TH 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

	Mangan (AWS)			North Sikkim Forecast							
Date	Rainfall Max. Ten	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)	(mm) (°C)	(°C) (°C)	Sky Condition	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Partly Cloudy		
20-2-2015	001	19.8	07.6	Rainfall	Very Light	Very Light	Light	Light	No rain		
21-2-2015	000	19.7	10.6	Wind (Speed/ Dir)	3Km/Hr (SSW)	4Km/Hr (WSW)	5Km/Hr (S)	5Km/Hr (SSW)	4Km/Hr (SW)		
22-2-2015	000	22.5	08.9	Temperature (Min-Max)	13 - 24°C	11 - 22°C	10 - 20°C	9 - 20°C	9 - 21°C		
23-2-2015	000	24.1	09.7	RH (Min-Max)	60 - 80%	65 - 85%	70 - 90%	65 - 85%	60 - 80%		

Gangtok				East Sikkim Forecast							
	Rainfall	Max. Temp	Min. Temp (°C)	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)	(°C)		Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Partly Cloudy		
20-2-2015	Trace	15.3	06.4	Rainfall	Very Light	Very Light	Light	Very Light	No rain		
21-2-2015	000	14.4	08.9	Wind (Speed/ Dir)	2Km/Hr (SSE)	2Km/Hr (WNW)	3Km/Hr (SE)	4Km/Hr (SSE)	3Km/Hr (W)		
22-2-2015	000	17.4	07.9	Temperature (Min-Max)	10 - 17°C	9 - 17°C	9 - 16°C	8 - 15°C	8 - 15°C		
23-2-2015	000	19.3	09.0	RH (Min-Max)	65 - 85%	70 - 90%	75 - 92%	70 - 88%	60 - 82%		

ſ	Namthang			South Sikkim Forecast							
	Rainfall Ma	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
	Date	(mm)	(°C)	(°C) (°C)	Sky Condition	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Partly Cloudy	
	20-2-2015	000	19.5	07.2	Rainfall	No rain	Very Light	Very Light	No rain	No rain	
	21-2-2015	000	19.5	08.0	Wind (Speed/ Dir)	3Km/Hr (S)	3Km/Hr (WNW)	5Km/Hr (S)	5Km/Hr (S)	3Km/Hr (WSW)	
	22-2-2015	000	19.8	09.0	Temperature (Min-Max)	9 - 19°C	9 - 18°C	8 - 16°C	8 - 17°C	8 - 18°C	
	23-2-2015	000	18.5	09.5	RH (Min-Max)	60 - 80%	65 - 85%	70 - 90%	65 - 85%	60 - 80%	

Gyalshing (AWS)				West Sikkim Forecast							
	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)	(°C)	(°C)	Sky	Partly	Generally	Generally	Partly	Partly		
				Condition	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy		
20-2-2015	000	17.0	06.3	Rainfall	Very Light	Light	Light	No rain	No rain		
21-2-2015	000	14.5	08.4	Wind (Speed/ Dir)	3Km/Hr (S)	3Km/Hr (W)	4Km/Hr (WSW)	4Km/Hr (WSW)	3Km/Hr (WSW)		
22-2-2015	000	19.4	08.9	Temperature (Min-Max)	11 - 21°C	10 - 19°C	9 - 18°C	9 - 18°C	8 - 19°C		
23-2-2015	000	20.9	09.0	RH (Min-Max)	65 - 85%	68 - 88%	70 - 90%	65 - 85%	55 - 75%		

# <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>

		<ul> <li>Powdery mildew Disease</li> <li>Disease</li> <li>Disease</li> <li>Disease</li> <li>Disease</li> </ul>		
Large cardamom	Vegetative/ floral bud formation		<ul> <li>Removal and bur infected leaves.</li> <li>Two irrigations in recommended.</li> <li>Field sanitation a unproductive tillers.</li> </ul>	a month are
Ginger	Storage		Harvested rhizome for two weeks under and stored in cool a seed material.	r shade condition
Cole crops	Vegetative/ Harvesting	<ul> <li>Damping off</li> <li>Output of the second second</li></ul>	<ul> <li>Drenching with copp 0.25 % or Bordeaux 10 days interval for of damping off and r</li> <li>Removal of club ro and drenching oxychloride @ 0.25 mixture @ 1%.</li> <li>Application of Neem cake @ 50kg/1000sq</li> <li>Drenching of plant water, cow urine and 2 litre and 50 ml weekly interval to a cut worms.</li> <li>Earthing up for early is recommended.</li> <li>Over watering should</li> </ul>	mixture @ 1% at the management oot rot. bot infected plant with copper 5 % or Bordeaux a cake/ mustard oil m. with mixture of d Neem oil 8 litre, t, respectively at avoid red ant and transplanted crop

Tomato	Nursery/	Late blight of		Seed should be sown for commercial
	vegetative /	tomato		production in raised bed of 4inches
	fruiting			and 1m width.
				Seed treatment with Trichoderma
				viride @ 4g/kg seed.
			٨	Soil treatment with Trichoderma
				viride @ 2.5 kg/50kg FYM or sand.
			۲	Bed should be prepared to a fine tilth
		MAN DE CA		and incorporate well decomposed
				FYM @ 2kg/sqm.
			٨	Regular watering should be done.
		A A A A A A A A A A A A A A A A A A A	٨	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
rotato	vegetative	potato	v	branches and weekly spraying of
		potato		copper oxychloride @ 0.25% for the
				management of late blight disease.
				Regular watering should be done
		CLEAR COAN	•	
		ALL AND		Regular weeding should be done and
				followed by earthing up.
Sikkim	Nursery stage		۲	Seeds of elite mother plant should be
Mandarin				sown in raised nursery bed for raising
				nucellar seedlings.
			٨	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
			Ť	trunk.
			٨	Regular watering should be done.
Kiwi fruit	Training		<b>♦</b>	
isiwi ilult	/Pruning		v	pruned to give proper shape to the
	/1 Tuning			vine.
			×	Well decomposed FYM @ 10-20kg
				/plant should be applied in the basin of
				trees.
				Avoid FYM application near the tree trunk.

Animal Scie	nces			
Tibetan Sheep	Sheared sheep		•	Provide winter shelter for lambs.
Yak	Pregnancy	Weight gain	<ul> <li></li> <li><th>Pregnancydiagnosisisrecommended.Feedingofconcentratefeedwith mineral mixture and salt.Provide winter shelter for calves.</th></li></ul>	Pregnancydiagnosisisrecommended.Feedingofconcentratefeedwith 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		<ul> <li>(*)</li> <li>(*)</li></ul>	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.