

## STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 29<sup>TH</sup> DECEMBER to 31<sup>ST</sup> DECEMBER'2015



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





#### ISSUED ON TUESDAY 29TH DECEMBER'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 (PTO)			North Sikkim Forecast					
Date	Rainfall Max. Temp	np Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	(mm)	(°C)	(°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Partly Cloudy	Partly Cloudy
25-12-201	5 000	18.2	06.4	Rainfall	No rain	No rain	No rain	No rain	No rain
26-12-201	5 000	18.4	07.4	Wind (Speed/ Dir)	4Km/Hr (SW)	5Km/Hr (SW)	5Km/Hr (SSE)	3Km/Hr (SSW)	3Km/Hr (S)
27-12-201	5 000	20.1	07.5	Temperature (Min-Max)	8 - 19°C	8 - 19°C	8 - 17°C	8 - 18°C	8 - 17°C
28-12-201	5 000	20.2	08.5	RH (Min-Max)	48 - 70%	49 - 73%	55 - 79%	40 - 65%	52 - 74%

Gangtok			East Sikkim Forecast						
Rainfall	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	(mm)	(°C)	(°C)	Sky Condition	Mainly Clear	Partly Cloudy	Generally Cloudy	Partly Cloudy	Partly Cloudy
25-12-2015	000	09.7	04.6	Rainfall	No rain	No rain	No rain	No rain	No rain
26-12-2015	000	12.9	03.7	Wind (Speed/ Dir)	3Km/Hr (W)	3Km/Hr (W)	3Km/Hr (ESE)	2Km/Hr (SSW)	2Km/Hr (E)
27-12-2015	000	13.6	05.3	Temperature (Min-Max)	5 - 14°C	5 - 14°C	5 - 12°C	4 - 13°C	4 - 13°C
28-12-2015	000	14.6	05.3	RH (Min-Max)	51 - 69%	52 - 72%	50 - 70%	50 - 66%	54 - 73%

	Namthang				South Sikkim Forecast					
	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	(mm)	(°C)	(°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Partly Cloudy	Partly Cloudy	
25-12-2015	000	15.5	05.5	Rainfall	No rain	No rain	No rain	No rain	No rain	
26-12-2015	000	14.4	05.5	Wind (Speed/ Dir)	3Km/Hr (W)	3Km/Hr (WSW)	3Km/Hr (ESE)	2Km/Hr (SSW)	2Km/Hr (ESE)	
27-12-2015	000	16.5	04.0	Temperature (Min-Max)	6 - 18°C	7 - 18°C	7 - 17°C	6 - 18°C	6 - 17°C	
28-12-2015	000	16.5	06.0	RH (Min-Max)	45 - 69%	45 - 72%	48 - 72%	40 - 66%	47 - 72%	
(	Gyalshin	g (AWS)	)	West Sikkim Forecast						
D. I	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	(mm)	(°C)	(°C)	Sky Condition	Mainly Clear	Partly Cloudy	Generally Cloudy	Partly Cloudy	Partly Cloudy	
25-12-2015	000	12.4	05.3	Rainfall	No rain	No rain	No rain	No rain	No rain	
26-12-2015	000	15.9	03.4	Wind (Speed/ Dir)	3Km/Hr (WSW)	4Km/Hr (SW)	3Km/Hr (NE)	2Km/Hr (SW)	2Km/Hr (ESE)	
27-12-2015	000	15.9	05.1	Temperature (Min-Max)	6 - 17°C	6 - 16°C	6 - 15°C	5 - 15°C	5 - 16°C	
28-12-2015	000	17.0	05.9	RH (Min-Max)	48 - 75%	42 - 74%	51 - 77%	37 - 79%	48 - 77%	

# <u>Part II</u>

#### AGRO-METEREOLOGICAL ADVISORIES

**General Advisories for all the crops/ livestock** 

- Preventive spray and soil drenching with copper oxychloride @2.5 g/l of water at 7-10 days intervals.
- Spraying of plant protection biopesticides on bright sunny day.
- Mulching should be done through locally available biomass to conserve soil moisture for *rabi* crops.
- *Jalkund* should be covered with thatch to prevent evaporation losses.
- 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.
- 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			
Buckwheat	Sowing/Thinnin g		<ul> <li>After field preparation FYM @ 2t/ha and vermicompost @ 1t/ ha should be applied.</li> <li>Sowing should be done in line at the spacing of 30x10cm.</li> <li>Thinning (removal of extra plants) should be done 10-15 days after sowing.</li> </ul>
Rice bean	Harvesting		Regular monitoring and periodic picking of mature pod should be done.
Black gram	Harvesting		Harvested pods should be sun dried and after threshing grain be stored at < 8-10% moisture level.
Mustard/ Toria	Thinning/ Flowering	Aphid	<ul> <li>Thinning (removal of extra plants) should be done 10-15 days after sowing.</li> <li>One irrigation should be provided at the time of pre-flowering.</li> <li>For management of aphid, spray petroleum agro spray @ 10 ml/l or</li> </ul>

			neem oil (1500ppm) @ 4ml/l.
Vegetable pea/ Field pea	Sowing/ Gap filling	No-till pea	<ul> <li>Apply FYM @ 2t/ha and vermicompost @ 1t/ ha before sowing.</li> <li>Sowing should be done in line at the spacing of 30-40x10cm.</li> <li>Soil moisture should be maintained for proper germination.</li> <li>Alternatively, sowing can also be done immediately after harvesting of rice under no-till condition in between the rows (no-till).</li> <li>Gap filling should be done at the earliest to maintain the proper plant population.</li> </ul>
Tomato	Flowering/ Fruiting	Late Blight	<ul> <li>Removal of infected leaves/ plant and drenching/ spray with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1%.</li> <li>Harvesting of mature green tomato should be done for distant market and pinkish/ reddish for local market.</li> </ul>
Winter vegetables (Cole crops)	Vegetative		<ul> <li>Regular watering and weeding in main field is recommended.</li> <li>Earthing up should be done.</li> <li>Regular monitoring for pest and disease incidence and collection and destruction of egg, larva, pupa and adult.</li> </ul>
Dalley chilli/ Red Cherry pepper	Harvesting	Fruit fly	<ul> <li>Collection and destruction of infested dropped fruits.</li> <li>Regular harvesting should be done to improve the yield.</li> </ul>
Large cardamom	Post harvest crop management		<ul> <li>Regular watering should be done at 15 – 30 days intervals.</li> <li>Regular monitoring for pest and disease incidence.</li> <li>Shade management with the proper lopping of trees.</li> </ul>

Ginger	Harvesting		۲	Identify healthy plants for seed
	Seed			rhizomes.
			۲	Care should be taken during
				harvesting to avoid the mechanical
				injury in the rhizome.
Sikkim	Fruit maturity/	Fruit drop		Collection of infested dropped fruit
Mandarin	II	and the second s		and buried in to soil.
	Harvesting		۲	Harvesting should be done along with
		the second second		twig with two leaves.
				Diseased and senile branches should
				be removed.
Animal Sciences				
Tibetan Sheep				Feeding of concentrate feed along
			ľ	with mineral mixture and salt.
Yak			٨	Feeding of concentrate feed along
				with mineral mixture and salt.
Cattle, Sheep			٨	Chances of coming into estrus so
and Goat				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.
			۲	Feeding of concentrate feed along
				with jaggery, mineral mixture and
				salt.
			٨	Periodic application of fly repellents
				and/ or netting of dung pit are
				recommended.
Cattle			٨	Balanced feeding of dairy animals
				and allow calf suckling immediately
				after parturition.
			۲	Full hand milking should be
				practiced.
				Frequent incomplete milking at
				interval of 4hrs should be practiced
				after parturition for minimum 1 week.
Poultry		Cocciodiosis,	<b></b>	16 hrs of light (natural and electrical)
Tourry		Ranikhet disease	v	should be provided to adult birds for
		Ruminiet disease		optimum egg production.
			٨	Frequent raking and liming of deep
			Ť	litter materials.
			<u> </u>	nuel materiais.

			Inclusion of turmeric powder @
			10g/kg feed for prevention of
			cocciodiosis.
			Maintenance of brooder temperature
			for chicks with the help of electrical
			bulbs for initial one month.
			<b></b> 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.
			Spraying of ectoparasiticidal @ 1%
			deltamethrin/ cypermethrin.
Pig	All stages	Swine fever	Keep floor dry to avoid skin diseases.
			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.