

## STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 16<sup>TH</sup> OCTOBER to 19<sup>TH</sup> OCTOBER'2015



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





### ISSUED ON FRIDAY 16TH OCTOBER'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							
				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	Light	Light	No rain	No rain	No rain		
13/10/2015	000	28.1	17.3	Wind (Km/Hr) (Speed/ Dir)	4(NE)	3(E)	2(SSE)	3(SSW)	4(SSW)		
14/10/2015	000	27.1	18.2	Temperature (Min-Max)	18 - 26°C	18 - 26°C	17 - 27°C	17 - 27°C	17 - 27°C		
15/10/2015	000	28.2	17.1	RH (Min- Max)	64 - 80%	64 - 78%	62 - 78%	62 - 75%	60 - 70%		

	Gangtok			East Sikkim Forecast							
				Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
Date	(mm)	(°C)	(°C)	Rainfall	Light	Light	Very Light	No rain	No rain		
13/10/2015	001	20.3	14.2	Wind (Km/Hr) (Speed/ Dir)	2(E)	2(E)	3(SSW)	2(S)	4(SW)		
14/10/2015	002	18.3	13.7	Temperature (Min-Max)	14 - 18°C	14 - 18°C	13 - 20°C	13 - 20°C	13 - 20°C		
15/10/2015	001	20.4	13.0	RH (Min- Max)	68 - 84%	68 - 82%	66 - 81%	62 - 81%	60 - 80%		

	Namt	hang		South Sikkim Forecast							
	Namthang			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	Rainfall	Rainfall Max. Temp	x. Temp Min. Temp (°C) (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
Date	(mm) (°C)	(°C)		Rainfall	Light	Very Light	No rain	Light	No rain		
13/10/2015	000	25.5	18.5	Wind (Km/Hr) (Speed/ Dir)	4(ENE)	2(E)	2(S)	3(SSW)	4(SW)		
14/10/2015	000	28.5	16.0	Temperature (Min-Max)	15 - 22°C	15 - 22°C	15 - 23°C	15 - 23°C	15 - 23°C		
15/10/2015	000	28.0	17.0	RH (Min- Max)	70 - 80%	70 - 80%	68 - 80%	66 - 78%	64 - 78%		

			West Sikkim Forecast							
	Gyalshing (AWS)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
Date	(mm)	(°C)	(°C)	Rainfall	Light	Light	No rain	No rain	No rain	
13/10/2015	N/A	24.5	N/A	Wind (Km/Hr) (Speed/ Dir)	3(NE)	2(NNE)	2(SSW)	4(SSW)	3(SW)	
14/10/2015	N/A	22.2	N/A	Temperature (Min-Max)	13 - 21°C	13 - 21°C	13 - 22°C	13 - 22°C	13 - 22°C	
15/10/2015	000	23.8	13.1	RH (Min- Max)	68 - 84%	68 - 81%	66 - 81%	64 - 80%	62 - 78%	

# <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.
- Nursery should be raised for early season cole crops (cabbage, cauliflower, broccoli), onion, raya saag etc. under protected condition.
- 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.**
- Avoid feeding of damp and foul smelling feed to all livestock and poultry.
- De-worming with Fenbendazole @ 10 mg / kg body weight.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Rice	Reproductive	Neck blast	<ul> <li>Spray neem based formulation (1500ppm) @ 3ml per litre of water for controlling rice gundhi bug.</li> <li>Proper soil moisture should be maintained up to grain filling stage.</li> <li>Spray with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1% for the management of neck blast at 10-15 days interval.</li> </ul>
Rice bean	Pod formation	Blister Beetle	<ul> <li>Proper staking should be done.</li> <li>Collection and destruction of Blister beetles and legume pod borer and spraying of Neem oil @3ml/lit should be done.</li> </ul>
Soybean	Pod development/ Harvesting		<ul> <li>Uproot diseased plants.</li> <li>Harvesting should be done when pod turns pale yellow colour.</li> </ul>

Black gram	Pod formation/	Blister Beetle	۲	Collection and destruction of Blister
	Harvesting			beetles and spraying of Neem oil
				@3ml/lit should be done.
		A State and a	٨	Harvesting should be done when pod
		5 5 5 C		turns pale yellow colour.
		The Paris Vie		1 5
Finger Millet	Grain formation/			
ringer Minet	Grain formation/			Begular field monitoring should be
	Harvesting		*	Regular field monitoring should be done.
	C C			done.
Buckwheat	Sowing		۲	After field preparation FYM @ 2t/ha
	~8			and vermicompost @ 1t/ ha should be
				applied.
			۲	Sowing should be done in line at the
			ľ	spacing of 30x10cm.
Vegetable pea	Sowing		۲	Apply FYM @ 2t/ha and
vegetuole peu	Sowing		Ť	vermicompost @ 1t/ ha before
				sowing.
			۲	Sowing should be done in line at the
			Ť	spacing of 30-40x10cm.
Tomato	Flowering/	Late Blight		spieme of 50 toxitem.
Tomato	1 lowering/	Late Dirgit	۵	Removal of infected leaves/ plant and
	fruiting		Ť	drenching/ spray with copper
		AN AN AN AN		oxychloride @ 0.25 % or Bordeaux
				mixture @ 1%.
			۵	Harvesting of mature green tomato
			Ť	should be done for distant market and
				pinkish/ reddish for local market.
Early winter	Nursery/		<b></b>	1
vegetables	Nulsel y/		v	pits filled with well decomposed FYM
vegetables	Transplanting			@ 2-2.5 kg/sqm., neem cake @
				200g/sqm. and Trichoderma @1-2
				g/sqm should be mixed in soil before
				transplanting.
			×	Nursery can be raised for early winter vegetables like cabbage, cauliflower,
				broccoli, onion, raya saag etc.
			۵	Seed should be sown in moist soil in
			Ŵ	
				raised nursery bed of size 1x5m under protected condition.
				-
			V	FYM @ 2kg/ sqm, neem cake @ 200g/sqm, Trichoderma @2% should
				be incorporated in soil before sowing seed.
			۵	
			~	Regular watering in nursery is

	[			
				recommended.
Dalley chilli/ Red Cherry pepper	Flowering/ fruiting	Fruit fly	۲	Collection and destruction of infested fruit. Installation of para pheromone trap (cue lure) @ 16-20 traps/ha. Regular harvesting should be done to improve the yield.
Large cardamom	After harvesting		۲	Removal and burying of blight infected leaves. Weeding/ removal of infected tillers should be done. FYM @ 2kg/ sqm, neem cake @ 200g/sqm, Trichoderma @2% should be incorporated in soil before sowing seed.
Ginger	Seed rhizome		\$	Identify healthy plants for seed rhizomes.
Sikkim Mandarin	Fruit maturity	Scab Scab Leaf miner Aphid Aphid		Collection of infected dropped fruit and buried in to soil. Removal of scab infected leaves and spray copper oxychloride @ 0.25 %. Spray of petroleum oil based agro spray @ 10ml/l for the management of aphid and leaf miner. Regular monitoring for trunk borer infestation.
Kiwifruit	Fruit maturity		<b></b>	Preventive measures should be taken to avoid bird and squirrel damage.
Animal Scier	nces			
Tibetan Sheep	Production stage		٨	Spraying of ectoparasiticidal. Feeding of concentrate feed along

Yak	Production stage			Feeding of concentrate feed along
				with mineral mixture and salt.
				Spraying of ectoparasiticidal.
Cattle, Sheep	All stages			0
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.
			۲	Periodic application of fly repellents
				and/ or netting of dung pit is
				recommended.
Cattle	Periparturient		۲	Balanced feeding of dairy animals
	-			and allow calf suckling immediately
				after parturition.
			۲	Full hand milking should be
				practiced.
			<b></b>	Frequent incomplete milking at
				interval of 4hrs should be practiced
				after parturition for minimum 1 week.
Poultry	All stages	Cocciodiosis		-
				should be provided to adult birds for
				optimum egg production.
				Frequent raking and liming of deep
				litter materials.
			۵	Inclusion of turmeric powder @
			ľ	10g/kg feed for prevention of
				cocciodiosis.
				Maintenance of brooder temperature
			Ť	for chicks with the help of electrical
				bulbs for initial one month.
				Ranikhet vaccination at 5 <sup>th</sup> day and at
			×	$30^{\text{th}}$ day of age.
			٨	Calcium and multi vitamin
			Ň	supplementation is strongly
				1 00
				production.
			×	Spraying of ectoparasiticidal @ 1%
Dia	All ato and	Swing foren		deltamethrin/ cypermethrin.
Pig	All stages	Swine fever		Keep floor dry to avoid skin diseases.
				Swine fever vaccine at the age of 8-

 	· · · · · · · · · · · · · · · · · · ·	1	
			10 week is recommended.
		٨	Critical heat detection in early
			morning and late evening is
			recommended.
		٨	Feed 5-10% green fodder of their
			diet.

### Agro-Met Advisory member of ICAR, Sikkim Centre Name Designation

Dr. R. K. Avasthe
 Dr. Homeswar Kalita
 Dr. Ashish Yadav
 Dr. Raghavendra Singh
 Dr. Matber Singh
 Dr. R. Gopi
 Dr. Subhash Babu
 Mr. Shaon Kr Das
 Dr. Brijesh Kumar
 Dr. Mahak Singh
 Mr. Boniface Lepcha

Designation Joint Director Principal Scientist Senior Scientist Senior Scientist Scientist, SS Scientist, SS Scientist Scientist Scientist Scientist Scientist Subject Matter Specialist

#### Department

Soil Science Entomology Horticulture Agronomy Agroforestry Plant Pathology Agronomy Agril. Chemistry/ Soil Sc. Animal Reproduction Horticulture

Ms. Pallabi Phukan (Subject Matter Specialist - Agril. Extn) Nodal Officer