STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 01st SEPTEMBER'2015 to 03rd SEPTEMBER'2015

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





ISSUED ON TUESDAY 01ST SEPTEMBER'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	emp Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5				
Date	(mm)	(°C)	(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy			
28-8-2015	060	25.1	18.4	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate			
29-8-2015	015	25.0	19.2	Wind (Speed/ Dir)	2Km/Hr (SSW)	2Km/Hr (SSW)	2Km/Hr (W)	2Km/Hr (SW)	3Km/Hr (S)			
30-8-2015	118	24.3	17.3	Temperature (Min-Max)	18 - 27°C	18 - 28°C	18 - 29°C	18 - 29°C	18 - 28°C			
31-8-2015	160	25.0	17.2	RH (Min-Max)	75 - 83%	78 - 86%	78 - 83%	75 - 85%	70 - 90%			

Gangtok				East Sikkim Forecast							
Date	Rainfall Ma	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)	(°C)	(°C)	Sky	Generally	Generally	Generally	Generally	Generally		
				Condition	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy		
28-8-2015	028	21.4	17.8	Rainfall	Moderate	Moderate	Light	Moderate	Moderate		
29-8-2015	004	21.9	17.8	Wind (Speed/ Dir)	3Km/Hr (SSE)	2Km/Hr (SSE)	2Km/Hr (WSW)	2Km/Hr (SSE)	3Km/Hr (SE)		
30-8-2015	004	20.0	17.9	Temperature (Min-Max)	18 - 21°C	18 - 22°C	18 - 23°C	18 - 23°C	18 - 22°C		
31-8-2015	016	20.0	17.8	RH (Min-Max)	80 - 94%	80 - 92%	78 - 90%	77 - 90%	78 - 95%		

	Namt	hang		South Sikkim Forecast							
Date	Rainfall	-	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	(mm)		C) (°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
28-8-2015	016	28.5	20.0	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate		
29-8-2015	000	29.5	20.5	Wind (Speed/ Dir)	2Km/Hr (S)	2Km/Hr (S)	2Km/Hr (W)	2Km/Hr (S)	3Km/Hr (SSE)		
30-8-2015	003	28.0	20.0	Temperature (Min-Max)	20 - 29°C	20 - 29°C	20 - 29°C	20 - 29°C	20 - 28°C		
31-8-2015	024	29.5	19.5	RH (Min-Max)	78 - 89%	79 - 90%	76 - 87%	73 - 87%	78 - 93%		

(Gyalshing (AWS)				West Sikkim Forecast							
Data	Rainfall	Max. Temp	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5			
Date	(mm)	(°C)	(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy			
28-8-2015	026	28.8	18.0	Rainfall	Moderate	Light	Light	Moderate	Moderate			
29-8-2015	N/A	25.2	N/A	Wind (Speed/ Dir)	2Km/Hr (S)	2Km/Hr (S)	2Km/Hr (NW)	2Km/Hr (SSW)	3Km/Hr (SSE)			
30-8-2015	007	21.8	18.7	Temperature (Min-Max)	18 - 25°C	18 - 26°C	18 - 26°C	18 - 26°C	18 - 25°C			
31-8-2015	014	N/A	18.2	RH (Min-Max)	81 - 89%	83 - 92%	81 - 90%	80 - 88%	84 - 95%			

<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.
- Ensure proper drainage to avoid water logging especially for ginger, turmeric and kharif vegetables.
- 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	Crops								
Rice	Vegetative	Leaf folder	 Proper maintenance of field channel and bunds are necessary to utilize the rain water. Weeding should be done where crop is in vegetative stage (20-25 days after planting). Spray neem based formulation (1500ppm) @ 3ml per litre of water for controlling leaf folder. Uprooted weeds may be left in between rows to decompose in standing flood water. Weeds may be incorporated into the soil under SRI. Maintain proper drainage for good tillering. 						
Rice bean	Vegetative/ Pod formation	Blister Beetle	 Proper staking should be done. Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. 						

		Legume pod borer		
Soybean	Flowering/		۲	Weeding should be done.
	Ded fermertien		۲	Maintain optimum plant population.
	Pod formation			Uproot diseased plants.
Black gram	Vegetative/	Blister Beetle	۲	To avoid water logging proper
	Pod formation			drainage should be maintained.
	1 ou formation			Collection and destruction of Blister
		363 200		beetles and spraying of Neem oil @3ml/lit should be done.
		Mar And And	۵	Weeding should be done.
			Ť	weeding should be done.
Finger Millet	Vegetative/			
8	Grain formation		۲	Proper maintenance of field channel
				and bunds are necessary to utilize the
				rain water.
				Weeding should be continued.
Tomato	Flowering/	Late Blight		Proper drainage should be maintained.
	fruiting			Removal of infected leaves/ plant and
	U	a set of a l		drenching/ spray with copper oxychloride @ 0.25 % or Bordeaux
				mixture @ 1%.
			۲	Harvesting of mature green tomato
				should be done for distant market and
				pinkish/ reddish for local market.
Early winter	Nursery			Nursery can be raised for early winter
vegetables				vegetables like cabbage, cauliflower,
				broccoli, onion, raya saag etc.
			~	Seed should be sown in moist soil in raised nursery bed of size 1x5m under
				protected condition.
			۲	FYM @ 2kg/ sqm, neem cake @
				200g/sqm, Trichoderma @2% should
				be incorporated in soil before sowing
				seed.
				Regular watering in nursery is
Dallar - 1 1111	Element /	Emit fla		recommended.
Dalley chilli/ Red Cherry	Flowering/ fruiting	Fruit fly	 (*) (*)	Proper drainage should be maintained. Collection and destruction of infested
pepper	iruning		×	fruit.
Poppor			۲	
				(cue lure) @ 16-20 traps/ha.
			٩	Regular harvesting should be done to
				improve the yield.

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Large cardamom	Maturity			Removal and burying of blight infected leaves.
			٨	Weeding/ removal of infected tillers
				should be done.
				Removal of infected leaves/ plant and
			-	spray with copper oxychloride @ 0.25
				%.
Ginger	Vegetative	Soft rot	۲	Proper drainage should be maintained.
				Weeding is recommended.
				Removal of infected leaves/ plant and
				drenching/ spray with copper
				oxychloride @ 0.25 %.
Okra	Flowering/	Blister beetle	\$	Proper drainage should be maintained.
	fruiting	IN W. LET	٨	Regular weeding should be done and
		A A DO		followed by earthing up.
		5 5 6	۲	Collection and destruction of Blister
				beetles and spraying of Neem oil
				@3ml/lit should be done.
Sikkim	Vegetative /	Scab		rioper dramage shourd be maintained
Mandarin	active fruit			to avoid water stagnation.
	growth			Basin should be weed free.
				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.
		Leaf miner		Regular monitoring for trunk borer
				infestation.
		Second P		
		Contraction of the second		
		Aphid		
Kiwifruit	Active fruit		٨	Proper drainage should be maintained
	growth			to avoid water stagnation.
			۲	Basin should be weed free.
			٨	Preventive spray of copper
				oxychloride @ 0.25 % and petroleum
				oil based agro spray @ 10 ml/l.
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Animal Scien	nces			
Tibetan Sheep	Production stage		(Spraying of ectoparasiticidal. Feeding of concentrate feed along with mineral mixture and salt.
Yak	Production stage		 <th>Feeding of concentrate feed along with mineral mixture and salt. Spraying of ectoparasiticidal.</th>	Feeding of concentrate feed along with mineral mixture and salt. Spraying of ectoparasiticidal.
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 st heat observe. Feeding of concentrate feed along with jaggery, mineral mixture and salt. Periodic application of fly repellents and/ or netting of dung pit is recommended.
Cattle	Periparturient		* *	Balanced feeding of dairy animals and allow calf suckling immediately after parturition. Full hand milking should be practiced. Frequent incomplete milking at interval of 4hrs should be practiced after parturition for minimum 1 week.
Poultry	All stages	Cocciodiosis	 <	 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 cocciodiosis. Maintenance of brooder temperature for chicks with the help of electrical bulbs for initial one month. Ranikhet vaccination at 5th day and at 30th day of age. Calcium and multi vitamin supplementation is strongly recommended to optimize egg production.

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				Spraying of ectoparasiticidal @ 1%
				deltamethrin/ cypermethrin.
Pig	All stages	Swine fever	٨	Keep floor dry to avoid skin diseases.
			۲	Swine fever vaccine at the age of 8-
				10 week is recommended.
			٨	Critical heat detection in early
				morning and late evening is
				recommended.
			۲	Feed 5-10% green fodder of their
				diet.