STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 31st JULY 2015 to 03RD AUGUST 2015

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





ISSUED ON FRIDAY 31ST JULY 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 (PTO)			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Cloudy	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy		
Date	(mm)	(°C)	(°C)	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate		
28-7-2015	000	29.2	21.4	Wind (Km/Hr) (Speed/ Dir)	3(SW)	3(SSW)	2(SSW)	3(SW)	2(SSW)		
29-7-2015	007	28.3	19.5	Temperature (Min-Max)	20 - 27°C	20 - 27°C	20 - 28°C	21 - 29°C	21 - 29°C		
30-7-2015	000	27.3	18.6	RH (Min- Max)	82 - 97%	83 - 95%	78 - 92%	78 - 92%	85 - 94%		

ſ	Constals				East Sikkim Forecast						
	Gangtok			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
	Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Cloudy	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
	Date	(mm)	(°C)	(°C)	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate	
	28-7-2015	004	24.2	16.5	Wind (Km/Hr) (Speed/ Dir)	2(SSW)	3(S)	3(SSE)	3(SSE)	2(ESE)	
	29-7-2015	024	21.8	18.4	Temperature (Min-Max)	18 - 22°C	17 - 22°C	17 - 23°C	17 - 23°C	18 - 23°C	
	30-7-2015	000	23.0	18.5	RH (Min- Max)	85 - 95%	85 - 93%	82 - 91%	80 - 91%	83 - 93%	

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					South Sikkim Forecast						
	Namthang			Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5		
	Date	Rainfall	Max. Temp	Min. Temp	Sky Condition	Cloudy	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
	(mm) (°C)	(°C)	Rainfall	Moderate	Moderate	Moderate	Light	Moderate			
	28-7-2015	000	31.0	19.0	Wind (Km/Hr) (Speed/ Dir)	3(SSW)	3(S)	3(S)	3(S)	2(SSE)	
	29-7-2015	000	30.5	21.5	Temperature (Min-Max)	20 - 27°C	20 - 28°C	20 - 28°C	20 - 29°C	20 - 29°C	
	30-7-2015	001	29.0	21.5	RH (Min- Max)	85 - 97%	80 - 95%	78 - 90%	75 - 90%	76 - 89%	

					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	Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
Date	(mm)	(°C)	(°C)	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate	
28-7-201	5 012	27.6	16.0	Wind (Km/Hr) (Speed/ Dir)	2(SW)	3(S)	3(S)	3(S)	2(S)	
29-7-201	5 000	25.0	17.9	Temperature (Min-Max)	18 - 24°C	17 - 25°C	17 - 26°C	17 - 26°C	17 - 26°C	
30-7-201	5 N/A	24.6	N/A	RH (Min- Max)	80 - 94%	75 - 90%	72 - 90%	75 - 92%	78 - 90%	

<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.
- 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	·		
Maize	Harvesting		 Harvesting of maize for green cobs should be done in the morning hours. After harvest of green cobs, stover may be used as livestock fodder. Maintain proper drainage for maize crop being grown for grain and seed purpose.
Rice	Direct sowing/ Transplanting		 Land should be prepared for direct sowing/transplanting. Proper maintenance of field channel and bunds are necessary to utilize the rain water. Well decomposed FYM/poultry manure/ vermicompost or other available organic sources of nutrients may be broadcast and incorporated by ploughing. Maintain proper spacing of 20 x 15 cm for conventional rice and 20 x 20 cm under modified SRI. Weeding should be done where crop is in vegetative stage (20-25 days after planting). Uprooted weeds may be left in

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				between rows to decompose in standing flood water. Weeds may be incorporated into the soil under SRI.
Rice bean	Vegetative stage	Blister Beetle	 (*) (*)	Proper staking should be done. Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done.
Soybean	Vegetative/ Flowering			Weeding should be done. Maintain optimum plant population.
Black gram	Sowing/ vegetative	Blister Beetle	 <th>Well decomposed FYM @ 5 t/ha or vermicompost @ 1 t/ha and dolomite @ 2 t/ha should be incorporated in the soil at the time last ploughing. To avoid water logging proper drainage should be maintained. Before sowing seed should be inoculated with <i>Rhizobium</i> culture @ 20 g/kg seed. Timely sowing on ridges is recommended. Collection and destruction of Blister beetles and spraying of Neem oil @ 3ml/lit should be done.</th>	Well decomposed FYM @ 5 t/ha or vermicompost @ 1 t/ha and dolomite @ 2 t/ha should be incorporated in the soil at the time last ploughing. To avoid water logging proper drainage should be maintained. Before sowing seed should be inoculated with <i>Rhizobium</i> culture @ 20 g/kg seed. Timely sowing on ridges is recommended. Collection and destruction of Blister beetles and spraying of Neem oil @ 3ml/lit should be done.
Finger Millet	Transplanting/ vegetative		 <th>Land should be prepared for raising of finger millet nursery /transplanting. Proper maintenance of field channel and bunds are necessary to utilize the rain water.</th>	Land should be prepared for raising of finger millet nursery /transplanting. Proper maintenance of field channel and bunds are necessary to utilize the rain water.

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Tomato	Flowering/	Late Blight	 (*) (*)	Proper drainage should be maintained.
	fruiting		\$	Removal of infected leaves/ plant and
				drenching/ spray with copper
				oxychloride @ 0.25 % or Bordeaux mixture @ 1%.
			۵	Harvesting of mature green tomato
			*	should be done for distant market and
				pinkish/ reddish for local market.
Gourds (Bottle/	Flowering/	Fruit fly	٩	1
bitter/ sponge/	fruiting		٢	Collection and destruction of infested
ridge)	8			fruit.
			٨	Installation of para pheromone trap
				(cue lure) @ 16-20 traps/ha.
			٨	Regular harvesting should be done to
				improve the yield.
Dalley chilli/	Flowering/	Fruit fly	٨	Proper drainage should be maintained.
Red Cherry	fruiting		۲	Collection and destruction of infested
pepper				fruit.
			۲	Installation of para pheromone trap
				(cue lure) @ 16-20 traps/ha.
				Regular harvesting should be done to
				improve the yield.
Large cardamom	Vegetative/ floral bud			
caruamom	formation			be done.
	Tormuton		V	Apply well decomposed FYM @
				2kg/ vermicompost @ 200g and neem
			۵	cake @ 150g per clump. Removal and burying of blight
			×	infected leaves.
			۲	Weeding/ removal of infected tillers
			ľ	should be done.
			٨	Removal of infected leaves/ plant and
				spray with copper oxychloride @ 0.25
				%.
Ginger	Vegetative	Soft rot	٨	Proper drainage should be maintained.
			۲	Weeding and second mulching is
				recommended.
			۲	Removal of infected leaves/ plant and
				drenching/ spray with copper
				oxychloride @ 0.25 %.
Okra	Vegetative/			Proper drainage should be maintained.
	flowering			Regular weeding should be done and
				followed by earthing up.
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Sikkim	Vegetative /	Scab	٨	Proper drainage should be maintained
Mandarin	active fruit			to avoid water stagnation.
	growth	3 88	۲	Basin should be weed free.
			٨	Avoid FYM application near the tree
		CYFIC NY		trunk.
				To fertilize the crop, well decomposed
				FYM @ 10-20kg /plant should be
				applied in the basin of trees.
		Leaf miner	٨	Removal of scab infected leaves and
				spray copper oxychloride @ 0.25 %.
		A B be	٨	Spray of petroleum oil based agro
		S. 16. 7 28		spray @ 10ml/l for the management of
				aphid and leaf miner.
				Regular monitoring for trunk borer
				infestation.
		Aphid		
Kiwifruit	Vegetative /		٨	Proper drainage should be maintained
	active fruit			to avoid water stagnation.
	growth		٨	Basin should be weed free.
			٨	Avoid FYM application near the tree
				trunk.
			٨	To fertilize the crop, well decomposed
				FYM @ 10-20kg /plant should be
				applied in the basin of trees.
				Preventive spray of copper
				oxychloride @ 0.25 % and petroleum
				oil based agro spray @ 10 ml/l.
Animal Scier	nces			
Tibetan Sheep	Full wool grown		٨	Shearing is recommended on bright
	_			sunny day.
			٨	Spraying of ectoparasiticidal.
Yak	Full grown hair		٨	
				recommended.
			٨	Feeding of concentrate feed along
				with mineral mixture and salt.
			٨	Spraying of ectoparasiticidal.
Cattle, Sheep	All stages		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
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			 of the animal after 12 hr of 1st heat observe. Feeding of colostrums within 2 hrs of birth. Feeding of concentrate feed along with jaggery, mineral mixture and salt. Periodic application of fly repellents and/ or netting of dung pit is recommended.
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.
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.