STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 25TH AUGUST'2015 to 27TH AUGUST'2015

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





ISSUED ON TUESDAY 25TH AUGUST'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	Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	(mm)	(°C)	(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Cloudy	Generally Cloudy	Generally Cloudy
21/8/2015	004	25.0	16.4	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate
22/8/2015	023	25.1	17.2	Wind (Speed/ Dir)	2Km/Hr (SSW)	3Km/Hr (SSW)	3Km/Hr (SSW)	3Km/Hr (S)	3Km/Hr (SSW)
23/8/2015	021	25.4	17.5	Temperature (Min-Max)	18 - 28°C	18 - 28°C	18 - 27°C	18 - 27°C	18 - 28°C
24/8/2015	001	30.1	16.3	RH (Min-Max)	70 - 84%	70 - 87%	73 - 92%	76 - 85%	71 - 88%

Gangtok			East 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	Generally Cloudy	Generally Cloudy	Cloudy	Generally Cloudy	Generally Cloudy
21/8/2015	030	20.0	17.5	Rainfall	Moderate	Moderate	Moderate	Moderate	Light
22/8/2015	010	20.0	17.2	Wind (Speed/ Dir)	2Km/Hr (SSE)	2Km/Hr (SE)	2Km/Hr (SE)	2Km/Hr (SSE)	2Km/Hr (SE)
23/8/2015	044	21.3	17.0	Temperature (Min-Max)	18 - 23°C	18 - 23°C	18 - 22°C	18 - 23°C	18 - 23°C
24/8/2015	010	22.3	17.9	RH (Min-Max)	82 - 94%	83 - 93%	85 - 95%	85 - 92%	82 - 92%

Namthang			South Sikkim Forecast						
Date	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	Cloudy	Generally Cloudy	Generally Cloudy
21/8/2015	011	25.0	19.5	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate
22/8/2015	002	26.0	19.0	Wind (Speed/ Dir)	2Km/Hr (SSE)	2Km/Hr (SSE)	2Km/Hr (SSE)	3Km/Hr (SSE)	2Km/Hr (SSE)
23/8/2015	002	28.0	20.0	Temperature (Min-Max)	20 - 28°C	20 - 28°C	19 - 27°C	19 - 27°C	19 - 28°C
24/8/2015	001	28.5	21.0	RH (Min-Max)	77 - 88%	76 - 88%	78 - 92%	80 - 89%	80 - 91%

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	Cloudy	Cloudy	Generally Cloudy
21/8/2015	009	23.1	17.4	Rainfall	Moderate	Moderate	Moderate	Moderate	Moderate
22/8/2015	003	24.6	17.7	Wind (Speed/ Dir)	2Km/Hr (S)	2Km/Hr (SSE)	2Km/Hr (SSE)	2Km/Hr (S)	2Km/Hr (SSE)
23/8/2015	017	24.2	N/A	Temperature (Min-Max)	18 - 26°C	18 - 27°C	18 - 26°C	18 - 26°C	18 - 26°C
24/8/2015	005	N/A	N/A	RH (Min-Max)	78 - 90%	80 - 90%	83 - 94%	78 - 92%	75 - 91%

Part II

AGRO-METEREOLOGICAL ADVISORIES

- 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 between rows to decompose in standing flood water. Weeds may be incorporated into the soil under SRI.

Rice bean	Vegetative stage	Blister Beetle Legume pod borer	****	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	****	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		 	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. Well decomposed FYM/poultry manure/ vermicompost or other available organic sources of nutrients may be broadcast and incorporated by ploughing. First weeding should be done upto 30 days after transplanting. Maintain optimum plant population (20x15cm) for higher yield.
Tomato	Flowering/ fruiting	Late Blight		Proper drainage should be maintained. Removal of infected leaves/ plant and drenching/ spray with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1%. Harvesting of mature green tomato

			should be done for distant market and pinkish/ reddish for local market.
Gourds (Bottle/ bitter/ sponge/ ridge)	Flowering/ fruiting	Fruit fly	 Proper drainage should be maintained. 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.
Dalley chilli/ Red Cherry pepper	Flowering/ fruiting	Fruit fly	 Proper drainage should be maintained. 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	Vegetative/ floral bud formation		 Planting of disease free sucker should be done. Apply well decomposed FYM @ 2kg/ vermicompost @ 200g and neem cake @ 150g per clump. Removal and burying of blight infected leaves. Weeding/ removal of infected tillers should be done. Removal of infected leaves/ plant and spray with copper oxychloride @ 0.25 %.
Ginger	Vegetative	Soft rot	 Proper drainage should be maintained. Weeding and second mulching is recommended. Removal of infected leaves/ plant and drenching/ spray with copper oxychloride @ 0.25 %.
Okra	Vegetative/ flowering		 Proper drainage should be maintained. Regular weeding should be done and followed by earthing up.

Sikkim	Vegetative /	Scab		Proper drainage should be maintained
Mandarin	Vegetative / active fruit	Scau	~	Proper drainage should be maintained to avoid water stagnation.
Ivianuai in		Mary 124		Basin should be weed free.
	growth		*	
		FOR GIVEN	~	Avoid FYM application near the tree trunk.
				To fertilize the crop, well decomposed
		AGE CONTRACTOR	ľ	FYM @ 10-20kg /plant should be
				applied in the basin of trees.
		Leaf miner	\lambda	Removal of scab infected leaves and
				spray copper oxychloride @ 0.25 %.
		No. of the second	~	Spray of petroleum oil based agro spray @ 10ml/l for the management of
				aphid and leaf miner.
				Regular monitoring for trunk borer
				infestation.
		Aphid		
Kiwifruit	Vegetative /		\lambda	Proper drainage should be maintained
	active fruit			to avoid water stagnation.
	growth			Basin should be weed free.
				Avoid FYM application near the tree
				trunk.
				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 Scien	nces			
Tibetan Sheep	Full wool grown			Shearing is recommended on bright
				sunny day.
			*	Spraying of ectoparasiticidal.
Yak	Full grown hair		\oint\oint\oint\oint\oint\oint\oint\oint	
				recommended.
			*	Feeding of concentrate feed along
			_	with mineral mixture and salt.
Cottle Chase	All stages			Spraying of ectoparasiticidal.
Cattle, Sheep and Goat	All stages		*	Chances of coming into estrus so farmers are advised to look for heat
and Goat				sign especially during early morning
				or late evening and ensure breeding
				of late evening and ensure breeding

			of the animal after 12 hr of 1 st 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.