STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 4TH AUGUST'2015 to 6TH AUGUST'2015

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





ISSUED ON TUESDAY 4TH 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)	m) (°C)	(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
31-7-2015	010	26.3	18.5	Rainfall	Light	Moderate	Moderate	Light	Light
1-8-2015	005	27.4	18.3	Wind (Speed/ Dir)	3Km/Hr (SW)	3Km/Hr (SSW)	3Km/Hr (SSW)	2Km/Hr (SE)	2Km/Hr (SSE)
2-8-2015	000	28.3	18.5	Temperature (Min-Max)	20 - 29°C	20 - 29°C	20 - 28°C	20 - 28°C	20 - 29°C
3-8-2015	000	28.4	18.3	RH (Min-Max)	76 - 90%	78 - 92%	76 - 91%	74 - 90%	72 - 88%

Gangtok				East Sikkim Forecast						
Data	Rainfall Max. Temp		Min. Temp	Day → Parameter↓	Day 1	Day 2	Day 3	Day 4	Day 5	
Date	(mm)	(mm) (°C)	(°C)	Sky Condition	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy	
31-7-2015	027	20.4	16.5	Rainfall	Moderate	Moderate	Moderate	Light	Moderate	
1-8-2015	003	20.5	17.1	Wind (Speed/ Dir)	2Km/Hr (S)	2Km/Hr (SE)	2Km/Hr (SSE)	3Km/Hr (E)	2Km/Hr (SSE)	
2-8-2015	006	20.5	17.4	Temperature (Min-Max)	17 - 23°C	18 - 23°C	18 - 22°C	18 - 22°C	18 - 23°C	
3-8-2015	013	19.5	17.6	RH (Min-Max)	78 - 92%	80 - 92%	80 - 91%	78 - 91%	76 - 90%	

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	Generally Cloudy	Generally Cloudy	Generally Cloudy	
31-7-2015	006	27.0	18.5	Rainfall	Moderate	Moderate	Moderate	Light	Light	
1-8-2015	002	28.0	20.0	Wind (Speed/ Dir)	2Km/Hr (SSW)	2Km/Hr (SSE)	3Km/Hr (SSE)	3Km/Hr (E)	2Km/Hr (SSE)	
2-8-2015	002	27.5	19.0	Temperature (Min-Max)	20 - 27°C	20 - 27°C	20 - 28°C	20 - 28°C	20 - 27°C	
3-8-2015	005	27.5	17.0	RH (Min-Max)	78 - 92%	80 - 91%	78 - 90%	76 - 90%	74 - 88%	

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	
31-7-2015	017	23.7	16.5	Rainfall	Moderate	Moderate	Moderate	Light	Moderate	
1-8-2015	003	23.7	17.7	Wind (Speed/ Dir)	2Km/Hr (SSW)	3Km/Hr (SSE)	2Km/Hr (SSE)	3Km/Hr (NE)	2Km/Hr (ESE)	
2-8-2015	015	24.5	17.2	Temperature (Min-Max)	18 - 23°C	18 - 23°C	18 - 24°C	18 - 24°C	18 - 23°C	
3-8-2015	017	22.6	17.2	RH (Min-Max)	74 - 91%	76 - 92%	72 - 90%	72 - 88%	70 - 88%	

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		<!--</th--><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. 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.</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. 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.

oxychloride @ 0.25 % or Bordeaux mixture @ 1%. Harvesting of mature green tomato should be done for distant market and pinkish/ reddish for local market. Flowering/ fruiting ridge) Fruit fly Fruit fly Collection and destruction of infested fruit. Installation of para pheromone trap (cue lure) @ 16-20 traps/ha. Regular harvesting should be maintained. Collection and destruction of infested fruit. Installation of para pheromone trap (cue lure) @ 16-20 traps/ha. Regular harvesting 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 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. 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. Proper drainage should be maintained.	Tomato	Flowering/	Late Blight	•	Proper drainage should be maintained.
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Tollowed by earthing up.		flowering		\Pi	Regular weeding should be done and followed by earthing up.

Sikkim	Vegetative /	Scab		Proper drainage should be maintained
Mandarin	active fruit	Scao	~	to avoid water stagnation.
iviandai in	growth	Maria Chi.		Basin should be weed free.
	giowiii			Avoid FYM application near the tree
		TO COMPANY	~	trunk.
				To fertilize the crop, well decomposed
		10	~	FYM @ 10-20kg /plant should be
				applied in the basin of trees.
		Leaf miner	\oint{\oint}	Removal of scab infected leaves and
				spray copper oxychloride @ 0.25 %.
		Jago W	*	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			Trimming of full grown coarse hair is
				recommended.
				Feeding of concentrate feed along
			_	with mineral mixture and salt.
C-w1 C1	A 11 o4 c		*	Spraying of ectoparasiticidal.
Cattle, Sheep	All stages		\bigstyle{\pi}	21111115 01 COMMIS 11110 CONTROL 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 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.