

# STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 23<sup>RD</sup> SEPTEMBER – 25<sup>TH</sup> SEPTEMBER"2014



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





### **ISSUED ON TUESDAY 23RD SEPTEMBER'2014 BY**

## **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 (AWS)				North 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	
19/9/2014	001	28.1	19.1	Rainfall	Light	Moderate	Light	Light	Light	
20/9/2014	013	24.1	18.7	Wind (Speed/ Dir)	1KT(SSE)	2KT(SSE)	3KT(SSE)	1KT(SSE)	2KT(SE)	
21/9/2014	017	22.9	19.1	Temperature (Min-Max)	19 - 26°C	19 - 25°C	19 - 25°C	19 - 26°C	19 - 26°C	
22/9/2014	003	23.7	18.1	RH (Min-Max)	76 - 92%	74 - 91%	80 - 94%	74 - 91%	79 - 93%	

Gangtok			East 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
19/9/2014	012	21.3	18.4	Rainfall	Light	Light	Light	Light	Light
20/9/2014	006	19.1	17.0	Wind (Speed/ Dir)	1KT(ESE)	2KT(ESE)	1KT(ESE)	2KT(ESE)	2KT(ENE)
21/9/2014	023	18.6	17.0	Temperature (Min-Max)	16 - 21°C	17 - 20°C	17 - 20°C	17 - 21°C	17 - 21°C
22/9/2014	005	19.4	16.0	RH (Min-Max)	80 - 91%	82 - 93%	79 - 92%	78 - 93%	83 - 94%

	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	
19/9/2014	000	29.0	19.0	Rainfall	Very Light	Very Light	Light	Light	Light	
20/9/2014	007	23.0	19.5	Wind (Speed/ Dir)	1KT(ESE)	2KT(SE)	1KT(ESE)	2KT(ESE)	3KT(E)	
21/9/2014	057	24.0	17.5	Temperature (Min-Max)	19 - 27°C	19 - 26°C	19 - 26°C	19 - 26°C	19 - 26°C	
22/9/2014	007	25.0	18.5	RH (Min-Max)	78 - 91%	79 - 92%	78 - 92%	78 - 92%	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	Generally Cloudy	Generally Cloudy	Generally Cloudy
19/9/2014	000	N/A	17.6	Rainfall	Very Light	Light	Very Light	Light	Light
20/9/2014	003	N/A	18.4	Wind (Speed/ Dir)	1KT(ESE)	2KT(ESE)	3KT(E)	1KT(E)	2KT(E)
21/9/2014	001	N/A	16.9	Temperature (Min-Max)	24/17	23/17	23/17	24/17	24/17
22/9/2014	001	N/A	15.6	RH (Min-Max)	93/78	92/80	92/78	91/76	93/80

# <u>Part II</u>

# AGRO-METEREOLOGICAL ADVISORIES

#### **General Advisories for all the crops**

- Solution Operation Conservation of soil moisture through locally available biomass mulching in all the crops.
- Preventive spray and soil drenching with copperoxychloride@2.5 g/l of water at weekly intervals.
- Spraying of plant protection biopesticides in the evening.
- Field preparation for early *Rabi* vegetable crops like cole crops, pea, leafy vegetables, tomato *etc* and fodder crops(oat/berseem).
- Water harvesting and storage in various structures like *Jalkund* is recommended for cultivation of *Rabi* crops.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Rice	Booting/ Panicle initiation	<ul> <li>Blast of rice</li> <li>Final of the second secon</li></ul>	<ul> <li>Maintain 2-3 cm water in the field.</li> <li>Spray copper oxychloride @2.5 g/l for rice blast.</li> <li>Spraying of <i>Pseudomonas fluorescens</i> @ 0.2% for management of blast and sheath blight at weekly intervals.</li> <li>Spray neem based formulation (1500ppm) @ 3ml per litre of water for controlling leaf folder.</li> <li>Monitor regularly and unfold the leaves folded by the leaf folder; and manually collect and destroy.</li> </ul>

SoybeanHarvesting stageProper maintained.Pahenlo dal (Kalo Dal (urd bean)Vegetative/ flowering/ Pod initiationProper drainage should be done when turns yellowish colour.Pahenlo dal (urd bean)Vegetative/ flowering/ Pod initiationProper drainage should be maintained.Pahenlo dal (urd bean)Vegetative/ flowering/ Pod initiationProper drainage should be maintained.Pahenlo dal (urd bean)Vegetative/ flowering/ Pod initiationProper drainage should be maintained.Finger milletFloweringSpray neem based formulation oppm) @ 3ml per litre of wate controlling leaf feeding beetles. Spray COC (0.25%) or Bord mixture @ 1% at weekly intervat the management of various leaf diseases.Finger milletFloweringImage: stage	ained (1500 er for deaux ls for
<ul> <li>Pahenlo dal /Kalo Dal flowering/</li> <li>Pod initiation</li> <li>Pod initiation</li> <li>Proper drainage should be maintain of ppm) @ 3ml per litre of wate controlling leaf feeding beetles.</li> <li>Spray COC (0.25%) or Bord mixture @ 1% at weekly intervation of the management of various leaf diseases.</li> </ul>	ained (1500 er for deaux ls for
Pahenlo dal       Vegetative/         /Kalo Dal       flowering/         (urd bean)       Pod initiation         Pod initiation       Ø Spray neem based formulation of ppm) @ 3ml per litre of water controlling leaf feeding beetles.         (washing beetles.)       Ø Spray COC (0.25%) or Bord mixture @ 1% at weekly intervate the management of various leaf diseases.	ained (1500 er for deaux ls for
Pahenlo dal /Kalo Dal       Vegetative/ flowering/       Proper drainage should be maintain Spray neem based formulation ppm) @ 3ml per litre of wate controlling leaf feeding beetles.         (urd bean)       Pod initiation       Spray neem based formulation ppm) @ 3ml per litre of wate controlling leaf feeding beetles.         * Spray COC (0.25%) or Bord mixture @ 1% at weekly intervate the management of various leaf diseases.	(1500 er for deaux ls for
/Kalo Dal       flowering/         (urd bean)       Pod initiation         Pod initiation       Pod initiation         (wrd bean)       Pod initiation         (urd bean)       Pod initiation         (wrd bean)       Pod initiation         (urd bean)       Pod initiation         (wrd bean)       Pod initiation         (urd bean)       Pod initiation         (wrd bean)       Pod initiation	(1500 er for deaux ls for
(urd bean)       Pod initiation       ppm) @ 3ml per litre of water controlling leaf feeding beetles.         (urd bean)       Spray COC (0.25%) or Bord mixture @ 1% at weekly intervation the management of various leaf diseases.	er for leaux ls for
( <i>urd</i> bean) Pod initiation controlling leaf feeding beetles. Spray COC (0.25%) or Bord mixture @ 1% at weekly interva the management of various leaf diseases.	leaux ls for
<ul> <li>Controlling leaf feeding beetles.</li> <li>Spray COC (0.25%) or Bord mixture @ 1% at weekly interva the management of various leaf diseases.</li> </ul>	ls for
mixture @ 1% at weekly interva the management of various leaf diseases.	ls for
the management of various leaf diseases.	
diseases.	spot
	-
<b>Finger millet</b> Flowering Sector Sect	
	water
logging.	
Rape seed and   Sowing     Sowing   Image: Sowing of the second secon	hoth
mustard sowing the crops @ 4-5 kg seed/ha.	boun
◆ FYM application @ 5-10 t/ha	and
vermicompost @ 2 t/ha	
recommended.	10
Beans Flowering/	ontrol
Pod initiation occur and destroy this pest.	
flowers.	nitial
infected plant parts.	
Spray wettable sulphur @ 2 g	g/l to
control powdery mildew.	
Proper drainage should be maintain	ained
Spray COC (0.25%) or Bord	leaux
mixture @ 1% at weekly interva	ls for
Powdery mildew     the management of various leaf	spot
diseases.	
RajmashSowingImage: After field preparation sowing state	hould
be completed @ 75-80 kg seed	/ha at
the earliest.	
Large Capsule Infestation of shoot Solution and destruction of inf	ested
LargeCapsuleIntestation of shootConcertion and destruction of integrationcardamomformation/flies and stem borer.tillers. Spraying of neem formula	
Harvesting (1500 ppm) @ 3 ml/l.	
<ul> <li>Collection and destruction of di</li> </ul>	sease
infected plants/ tillers.	
♦ Harvesting of mature capsule	and
removal of unproductive and	
tillers should be done as ear	
possible.	
Cole crops 🔷 Time for nursery raising of cal	obage,
cauliflower and broccoli unde	

	1		1	
				cost structure.
				If nurseries are ready then
				transplanting can be done.
			۲	Dolomite application @ 200g/sqm for
				soil having pH less than 5.5.
			٨	Soil drenching of nursery bed with
				copper oxychloride @2.5 g/ l or
				Bordeaux mixture @ 1% to prevent
				damping off.
				Soil application of <i>Trichoderma viride</i>
			Ť	@ 2.5 kg mixed with 50kg well
				decomposed FYM for 1 ha.
				•
			~	Prepare 15cm raised bed nursery of
				1m width.
				Well-decomposed FYM @ 2.5 kg/sqm
				to be applied during nursery bed
				preparation.
Dalley Chilli	Fruiting/	<ul> <li>Fruit fly damage</li> </ul>		Proper drainage should be
	<b>TT</b>			maintained.
	Harvesting		۲	Fallen fruits should be collected and
				destroyed to minimize fruit fly.
		A 1 1 1		<b>D</b>
Sikkim	Fruit growth	✤ Aphid		Proper drainage should be
Mandarin		*		maintained.
				Basin of plants should be cleaned.
				Spray petroleum oil based agro-spray
				@ 10 ml/l for managing aphid, leaf
				miner, mealy bug etc.
				Regular monitoring and cleaning of
				infested trunk. Plug the holes with
				cotton soaked in kerosene/petrol and
		<ul> <li>Leaf miner</li> </ul>		plaster with mixture of cow dung and
				soil.
			٨	Spray copper oxychloride @ 2.5 g/l to
		13 62		manage citrus scab.
				C .
		✤ Mealy bug		
		NAN E		

		<ul><li>Trunk borer</li></ul>	
		<ul> <li>Scab</li> </ul>	
Animal Scien	ces	I	
Tibetan Sheep	Full grown wool	Chances of soiling and picking infection.	Go for shearing and followed by spraying or Dipping in ectoparasitic solution.
Yak, Tibetan	Breeding	Weight gain	Start observing heat sign.
Sheep	season		Collection and preservation of green fodder for hay purpose.
Cattle, Sheep	All stages	Plenty of green pasture/	Chances of coming into estrus so
and Goat		fodder available in the	farmers are advised to look for heat
		field.	sign especially during early morning
			or late evening and ensure breeding
			of the animal after 12 hr of 1 <sup>st</sup> heat
			<ul><li>observe.</li><li>FMD vaccination is recommended.</li></ul>
Poultry	All stages	High humidity	Frequent raking and liming of deep
1 outry	in stuges	-ingli indimonty	litter materials.
Pig	All stages	High humidity	Keep floor dry to avoid skin diseases.