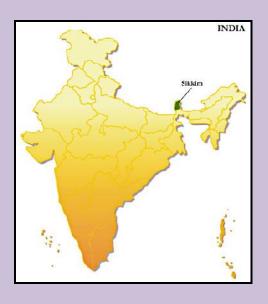


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF NORTH SIKKIM PERIOD:

23th NOVEMBER' to 27th NOVEMBER' 2019

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





ISSUED ON 22th November 2019

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

Value Added forecast for NORTH-DISTRICT for next five days

Parameter/Date	23/11/2019	24/11/2019	25/11/2019	26/11/2019	27/11/2019
Rainfall (mm)	No rain	No rain	Very light rainfall	No rain	No rain
Max Temp (⁰ C)	22	21	20	20	21
Min Temp (⁰ C)	14	14	13	12	12
Sky condition	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	90	91	91	90
Min RH (%)	70	75	79	80	75
Wind Speed (KmpH)	002	003	003	004	004
Wind Direction (deg)	SE	SE	SE	SE	SE

Northerly- N, North-Easterly- E, South-Easterly- S-E, South-Westerly- S, South-Westerly- S, Westerly- W, North-westerly- N-W.

Weather for preceding week					
Date Rainfall Max. Temp Min. Temp					
	(mm)	(°C)	(°C)		
19/11/2019	000	N/A	15.0		
20/11/2019	000	19.2	14.5		
21/11/2019	000	21.9	13.9		

- > Probability of no rain.
- Max temp may be varying from 20-22°C, whereas, Min temp may vary from 12-14°C
- > Sky will remain generally cloudy.
- Max RH is likely to be 90-91 %, whereas, Min RH may vary from 70-80 %
- > Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow from southeasterly direction.
- > Weekly cumulative rainfall= 002.0 mm

General Advisories for all the crops/livestock

- **▶** Complete the sowing of rabi crops as early as possible before residual soil moisture lost.
- **→** Harvest mature crops before unexpected rain.
- **▶** While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable

Name of the	Stage	Cultural practices/	Agro-Met Advisories
crop/Animal	Agrica	Pest/ Diseases ultural and Horticultu	ural crops:
Rice	Grain maturity		◆ Drain out water completely 10 days
Ricc	to harvesting		before harvesting.
	and postharvest		Harvesting should start when the crops
	and position vest		are 80-90% mature
			♦ Maintain seed moisture about 8-10 %
			for storage.
Rjmash	Pre		Irrigate crop at flowering stage.
	flowering/flowe		
Ginger/	ring Tillering stage		♦ Allow minimum entry to crop field to
Turmeric	Timering stage		reduce disease infestation.
			◆ Allow proper drainage to avoid
			stagnation of water in the field.
			Timely monitor the field to check the
			attack of bacterial wilt due to high
			humidity and temperature.
Red cherry	Fruiting	Blight	◆ Allow proper drainage to remove
pepper/Brinjal/			excess rain water from the field.
Toamto			Timely monitor the field to check the
			attack of bacterial will due to high humidity and temperature.
			Due to high temperature and high
			rainfall may cause late blight. Apply
			COC @ 0.25% at weekly interval for
			4-5 sprays will reduce the disease.
Colo arena	Numanny		The pursery site should be deepend
Cole crops	Nursery preparation		The nursery site should be dry and free from water stagnation as well as
	preparation		high moisture in the soil.
			To protect from heavy rain the nursery
			should be in semi protected area.

Sikkim Mandarin	Planting/fruitin g		moderate nutrient nutrient rainfall.	
	Animal So	ciences and livestock	nanagem	ent
Poultry		Coccidiosis, Ranikhet disease	condition four we be Low condition prevent stress. Maintain through	ost brooder should be made to chick mortality due to cold in brooding temperature continuous electricity supply emergency Sigiri/Bukhari can
Sheep/goat			should	winter months special care be taken for sheep, goat for l parasites.

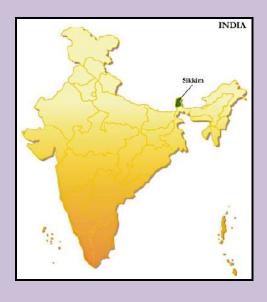
Agro-Met Advisory member of ICAR-NOFRI and KVK- East Sikkim Name Designation **Department** Dr. R. K. Avasthe **Joint Director Soil Science** Dr. Raghavendra Singh Agronomy Senior scientist and Head (I/C) Dr. P. K. Pathak SMS Animal science Dr. J.K. Singh Plant Breeding SMS Agronomy Dr. Manoj Kumar SMS Sh. Boniface Lepcha SMS Horticulture Agril. Meteorology Sh. Santanu Das SMS Miss Tirtha Kumari Chettri Biochemistry Met. Observer



AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF EAST SIKKIM PERIOD:

23th NOVEMBER' to 27th NOVEMBER' 2019

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





ISSUED ON 22th November 2019

Meteorological Sub-division of Sikkim

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- 1) North District with HQ at Mangan
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- 3) West District with HQ at Gyalsing
- 4) South District with HQ at Namchi

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	23/11/2019	24/11/2019	25/11/2019	26/11/2019	27/11/2019
Rainfall (mm)	No rainfall	No rainfall	No rainfall	No rainfall	No rainfall
Max Temp (⁰ C)	18	17	16	16	17
Min Temp (⁰ C)	12	12	12	11	11
Sky condition	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	90	92	91	88
Min RH (%)	75	75	82	85	80
Wind Speed (KmpH)	002	003	002	003	003
Wind Direction (deg)	NE	NE	NE	NE	NE

Northerly- N, North-Easterly- E, South-Easterly- S, South-Westerly- S, South-Westerly- N, Westerly- N, Wester

	Weather for preceding week				
Date Rainfall Max. Temp Min. T					
19/11/2019	000	16.1	12.4		
20/11/2019	000	15.2	12.2		
21/11/2019	000	16.9	11.5		

- > There is no probability of rainfall.
- Max temp may be varying from 16-18°C, whereas, Min temp may vary from 11-12 °C
- > Sky will remain generally cloudy
- Max RH is likely to be 88-92 %, whereas, Min RH may vary from 75-85 %
- > Wind speed may likely vary from 2-3 km/hr.
- > Wind direction may blow from northeasterly
- > Weekly cumulative rainfall= 000.0 mm

General Advisories for all the crops/livestock

- **➡** Complete the sowing of rabi crops as early as possible before residual soil moisture lost.
- **▶** Harvest mature crops before unexpected rain.
- **▶** While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable

Name of the	Stage	Cultural practices/	Agro-Met Advisories
crop/Animal	A state of	Pest/ Diseases	
	Agrica	ultural and Horticultu	irai crops:
Rice	Grain maturity to harvesting and postharvest		 Drain out water completely 10 days before harvesting. Harvesting should start when the crops are 80-90% mature Maintain seed moisture about 8-10 % for storage.
Rjmash	Pre flowering/flowe ring		♦ Irrigate crop at flowering stage.
Ginger/ Turmeric	Tillering stage		Allow minimum entry to crop field to reduce disease infestation.
			 Allow proper drainage to avoid stagnation of water in the field. Timely monitor the field to check the attack of bacterial wilt due to high humidity and temperature.
Red cherry pepper/Brinjal/ Toamto	Fruiting	Blight	 Allow proper drainage to remove excess rain water from the field. Timely monitor the field to check the attack of bacterial will due to high humidity and temperature. Due to high temperature and high rainfall may cause late blight. Apply COC @ 0.25% at weekly interval for 4-5 sprays will reduce the disease.
Cole crops	Nursery preparation		 The nursery site should be dry and free from water stagnation as well as high moisture in the soil. To protect from heavy rain the nursery should be in semi protected area.

Sikkim	Planting/fruitin		As th	here is a possibility of light to
Mandarin	g		mode	rate rainfall so apply soil
			nutrie	nts @ 25-35 kg/ha as maximum
			nutrie	nt losses may occur due to
			rainfa	11.
	Animal So	ciences and livestock	nanage	ment
Poultry	A STATE	Coccidiosis, Ranikhet	Keep	the Vanaraja chicks in warm
	4	disease	condi	tion (32-330C) during the first
			four v	weeks.
	A PARTY OF THE PAR		Low	cost brooder should be made to
			preve	nt chick mortality due to cold
			stress	
			Maint	tain brooding temperature
				gh continuous electricity supply
				or emergency Sigiri/Bukhari can
			be use	
Sheep/goat			Durin	g winter months special care
7-1-8-m				d be taken for sheep, goat for
				nal parasites.
			CAUCII	iai parasites.

Agro-Met Advisory member of ICAR-NOFRI and KVK- East Sikkim Name **Designation Department Soil Science Joint Director** Dr. R. K. Avasthe Dr. Raghavendra Singh Senior scientist Agronomy and Head (I/C) Dr. P. K. Pathak **SMS** Animal science Dr. J.K. Singh SMS Plant Breeding Dr. Manoj Kumar SMS Agronomy

SMS

SMS

Met. Observer

Sh. Boniface Lepcha

Miss Tirtha Kumari Chettri

Sh. Santanu Das

Horticulture

Agril. Meteorology

Biochemistry



AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF SOUTH SIKKIM PERIOD:

23th NOVEMBER' to 27th NOVEMBER' 2019

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





ISSUED ON 22h November 2019

Meteorological Sub-division of Sikkim

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- 2) East District with HQ at Gangtok
- 3) West District with HQ at Gyalsing
- 4) South District with HQ at Namchi

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	23/11/2019	24/11/2019	25/11/2019	26/11/2019	27/11/2019
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp (⁰ C)	21	21	20	20	21
Min Temp (⁰ C)	12	12	11	11	12
Sky condition	Partially clear	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	85	87	90	90	85
Min RH (%)	65	70	75	75	70
Wind Speed (KmpH)	002	002	002	003	003
Wind Direction (deg)	NE	NE	NE	NE	NE

Northerly- N, North-Easterly- E, South-Easterly- S, South-Westerly- S, South-Westerly- N, Westerly- N, North-westerly- N, North

	Weather for preceding week				
Date Rainfall Max. Temp Min. Temp					
	(mm)	(°C)	(°C)		
19/11/2019	N/A	19.5	12.4		
20/11/2019	N/A	19.8	10.9		
21/11/2019	N/A	21.4	10.5		

- There will be no rainfall
- Max temp may be varying from 20-21°C, whereas, Min temp may vary from 11-12°C
- > Sky will remain generally cloudy.
- Max RH is likely to be 85-90 %, whereas, Min RH may vary from 65-75 %
- > Wind speed may likely vary from 2-3 km/hr.
- > Wind direction may blow from northeasterly direction
- > Weekly cumulative rainfall= 000.0 mm

General Advisories for all the crops/livestock

- **➡** Complete the sowing of rabi crops as early as possible before residual soil moisture lost.
- **▶** Harvest mature crops before unexpected rain.
- **▶** While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable

Name of the	Stage	Cultural practices/	Agro-Met Advisories
crop/Animal	Adrio	Pest/ Diseases	ural arangi
		ultural and Horticultu	_
Rice	Grain maturity to harvesting and postharvest		 Drain out water completely 10 days before harvesting. Harvesting should start when the crops are 80-90% mature Maintain and maintage about 8 10 %
			Maintain seed moisture about 8-10 % for storage.
Rjmash	Pre flowering/flowe ring		♦ Irrigate crop at flowering stage.
Ginger/ Turmeric	Tillering stage		Allow minimum entry to crop field to reduce disease infestation.
			 Allow proper drainage to avoid stagnation of water in the field. Timely monitor the field to check the
			attack of bacterial wilt due to high humidity and temperature.
Red cherry pepper/Brinjal/ Toamto	Fruiting	Blight	 Allow proper drainage to remove excess rain water from the field. Timely monitor the field to check the
			attack of bacterial will due to high humidity and temperature.
			Due to high temperature and high rainfall may cause late blight. Apply COC @ 0.25% at weekly interval for 4-5 sprays will reduce the disease.
Cole crops	Nursery		The nursery site should be dry and
	preparation		free from water stagnation as well as high moisture in the soil.
			To protect from heavy rain the nursery should be in semi protected area.

Sikkim	Planting/fruitin			As there is a possibility of light to
Mandarin	g			moderate rainfall so apply soil
				nutrients @ 25-35 kg/ha as maximum
				nutrient losses may occur due to
				rainfall.
	Animal So	ciences and livestock	ma	nagement
Poultry		Coccidiosis, Ranikhet		Keep the Vanaraja chicks in warm
	4 4	disease		condition (32-330C) during the first
				four weeks.
	A COMPANY OF			Low cost brooder should be made to
				prevent chick mortality due to cold
				stress.
				Maintain brooding temperature
				through continuous electricity supply
				and for emergency Sigiri/Bukhari can
				be used.
Sheep/goat			(During winter months special care
Sheep/gout			•	should be taken for sheep, goat for
				external parasites.

Agro-Met Advisory member of ICAR-NOFRI and KVK- East SikkimNameDesignationDepartmentDr. R. K. AvastheJoint DirectorSoil ScienceDr. Raghavendra SinghSenior scientist
and
Head (I/C)AgronomyDr. P. K. PathakSMSAnimal science

Plant Breeding

Agronomy

Horticulture

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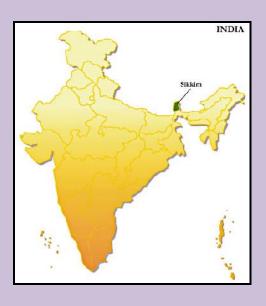
Sh. Santanu Das



AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF WEST SIKKIM PERIOD:

23th NOVEMBER' to 27th NOVEMBER' 2019

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





ISSUED ON 22h November 2019

Meteorological Sub-division of Sikkim

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- 3) West District with HQ at Gyalsing
- 4) South District with HQ at Namchi

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	23/11/2019	24/11/2019	25/11/2019	26/11/2019	27/11/2019
Rainfall (mm)	No rain				
Max Temp (⁰ C)	20	19	18	18	19
Min Temp (⁰ C)	12	12	11	11	11
Sky condition	Partially cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	90	92	90	87
Min RH (%)	70	74	80	80	72
Wind Speed (KmpH)	003	003	003	004	004
Wind Direction (deg)	NW	NW	NW	NW	NW

Northerly- N, North-Easterly- E, South-Easterly- S, South-Westerly- S, South-Westerly- N, Westerly- N, Wester

Weather for preceding week					
Date	Rainfall	Max. Temp	Min. Temp		
	(mm)	(°C)	(°C)		
19/11/2019	000	N/A	N/A		
20/11/2019	000	N/A	N/A		
21/11/2019	N/A	N/A	N/A		

- Probability of no rainfall
- Max temp may be varying from 18-20°C, whereas, Min temp may vary from 11-12°C
- > Sky will remain generally cloudy.
- Max RH is likely to be 87-90 %, whereas, Min RH may vary from 70-80 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from northwesterly.
- > Weekly cumulative rainfall= 000.0 mm

General Advisories for all the crops/livestock (English)

- **▶** Complete the sowing of rabi crops as early as possible before residual soil moisture lost.
- **→** Harvest mature crops before unexpected rain.
- **▶** While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable

Name of the	Stage	Cultural practices/	Agro-Met Advisories		
crop/Animal Pest/ Diseases **Agricultural and Horticultural crops:**					
Rice	Grain maturity to harvesting		Drain out water completely 10 days before harvesting.		
	and postharvest		Harvesting should start when the crops		
	and postnar vest		are 80-90% mature		
			♦ Maintain seed moisture about 8-10 %		
			for storage.		
Rjmash	Pre		♦ Irrigate crop at flowering stage.		
	flowering/flowe				
Ginger/	ring Tillering stage		Allow minimum entry to crop field to		
Turmeric			reduce disease infestation.		
			◆ Allow proper drainage to avoid		
			stagnation of water in the field.		
			Timely monitor the field to check the		
			attack of bacterial wilt due to high		
			humidity and temperature.		
Red cherry	Fruiting	Blight	Allow proper drainage to remove		
pepper/Brinjal/			excess rain water from the field.		
Toamto			Timely monitor the field to check the attack of bacterial will due to high		
			humidity and temperature.		
			Due to high temperature and high		
			rainfall may cause late blight. Apply		
			COC @ 0.25% at weekly interval for		
			4-5 sprays will reduce the disease.		
Cole crops	Nursery		The nursery site should be dry and		
	preparation		free from water stagnation as well as		
	1 1		high moisture in the soil.		
			To protect from heavy rain the nursery		
			should be in semi protected area.		

Sikkim Mandarin	Planting/fruitin g		As there is a possibility of light to moderate rainfall so apply soil nutrients @ 25-35 kg/ha as maximum nutrient losses may occur due to rainfall.		
Animal Sciences and livestock management					
Poultry		Coccidiosis, Ranikhet disease	 Keep the Vanaraja chicks in warm condition (32-330C) during the first four weeks. Low cost brooder should be made to prevent chick mortality due to cold stress. Maintain brooding temperature through continuous electricity supply and for emergency Sigiri/Bukhari can be used. 		
Sheep/goat			During winter months special care should be taken for sheep, goat for external parasites.		

Agro-Met Advisory member of ICAR-NOFRI and KVK- East Sikkim Name Designation **Department** Dr. R. K. Avasthe **Joint Director Soil Science** Dr. Raghavendra Singh Agronomy Senior scientist and Head (I/C) Dr. P. K. Pathak SMS Animal science Dr. J.K. Singh Plant Breeding SMS Agronomy Dr. Manoj Kumar SMS Sh. Boniface Lepcha SMS Horticulture Agril. Meteorology Sh. Santanu Das SMS Miss Tirtha Kumari Chettri Biochemistry Met. Observer