

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

5th FEBRUARY to 9th FEBRUARY 2020

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





ISSUED ON 4th February 2020

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	05/02/2020	06/02/2020	07/02/2020	08/02/2020	09/02/2020
Rainfall (mm)	Very light rainfall	Light rainfall	No rain	No rain	Very light rainfall
Max Temp (⁰ C)	17	15	16	17	17
Min Temp (⁰ C)	07	06	06	07	07
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	83	93	85	85	93
Min RH (%)	69	81	73	73	81
Wind Speed (KmpH)	003	002	003	004	003
Wind Direction (deg)	SE	SE	SE	SE	SE

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

Weather for preceding week							
Date	Rainfall	Max. Temp	Min. Temp				
	$ (\mathbf{mm}) \qquad (^{0}\mathbf{C}) \qquad (^{0}\mathbf{C}) $						
31-1-2020	009	N/A	N/A				
1-2-2020	000	13.4	N/A				
2-2-2020	000	N/A	07.7				

- > Probability of very light rainfall on coming days.
- > Max temp may be varying from 15-17 °C, whereas, Min temp may vary from 6-7 °C
- > Sky will remain generally cloudy.
- Max RH is likely to be 83-93 %, whereas, Min RH may vary from 69-81 %
- > Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow from southeasterly direction.
- > Weekly cumulative rainfall= 007.0 mm.

- Apply irrigation if temperature falls down below 4-5°C.
- ♣ If dry condition prevails on field for longer time, apply water keep the field moist.
- ♣ While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable.
- ♣ Suitable soil water conservation technique should be maintained at the field; however, secondary source of irrigation should be available for vegetable crops.
- 🖶 सिँचाइ लागू गर्नुहोस यदि तापक्रम ४-५ डिग्री सेल्सियस तल झरे पिछ।
- यदि सुख्खा अवस्था लामो समयसम्म खेतमा रहन्छ भने पानी प्रयोग गर्नुहोस्
 खेतलाई चिसो राख्नुहोस्।
- जनावरहरूको निर्माणको लागि जगा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रन हुने हेर्नुस् ।
- खेती मा पानी संरक्षण गरनुको लागि तकनिक गरेर राख्नुपर्छः यद्यपि तरकारी
 बालीका लागि सिंचाइको दोस्रो स्रोत उपलब्ध हन्पर्दछ।

बालाका लागि सियाइका दास्रा स्नात उपलब्ध हुनुपदछ।					
Name of the	Stage	Cultural practices/	Agro-Met Advisories		
crop/Animal		Pest/ Diseases			
	Agric	ultural and Horticultu	ural crops:		
Potato	Vegetative stage		■ As a rule, soil must keep wet but hardening or too wet condition must be avoided. ■ Irrigate the crop at 30-35 DAS and maintain the available soil moisture (ASM) at about 75 %. ■ To protect the potato from chilling injury apply light irrigation on it. ■ At 40-45 DAS little hoeing / earthing up should be done. ■ Infected plants with late blight disease must be destroyed as soon as detected. ■ Spray Blitox @ 2.5 g/l at 7-10 days interval to control Late blight disease. ■ एक नियमको रू माटो भिजेको हनपर्दछ तर कड़ा हुँदै छ वा धेरे भिजेको अवस्थाबाट टाढा रहम पछ। ■ ३०३५ दिन बाद बालीमा सिँचाड गर्नहोस र उपलब्ध माटोको नि (ASM) लाई ७५% मा कायम राख्नहोस् ■ आल्लाई जारोबाट बचाउन यसमा हल्का सिचाई लगाउन्होस्। ■ ४०-४५दिनको बाद खेतिमा ३ उठाएर लगाउन परछ।		
			उठाएर लगाउन परछ। ♦ लेटब्लइट रोग संक्रमित हन बित्तिकै आल् पत्ता लाई नष्ट गरदीने पर्दछ।		

		•	लेट ब्लाइंट रोग नियन्त्रण गर्ने । 7-10 दिनको मध्यान्तरमा ब्लिटक्स
Field pea	Pod formation		@ 2.5 g/l स्त्रे गर्नहोस। Soil moisture should be maintained for good growth and yield.
			One or two light and uniform irrigation should be given at flowering and fruiting stage.
		•	माटोको नॉमे रॉमो बढि र उत्पादनको लागि कायम गर्नुपर्दछ।
		~	एक वा दुई हल्का र एकसमान सिंचाइ फूल र फलेफूल चरणमा दिन् पर्छ।
Rapeseed- Mustard/Toria	Fruiting		Flowering and siliqua formation stages are critical for irrigation. So two irrigation at pre-bloom and pod formation stage are beneficial.
			In Sikkim condition mulching materials like maize stover and rice straw can be used to conserve soil moisture.
			For management of aphid, spray neem oil (1500 ppm) @ 4ml/l.
			फुल फुल्ने र सिनिक्वा गठन चरणहरू सिचाइको लागि महत्त्वपूर्ण छ। त्यसोभए फुल्-फुलने र फल लागने
		•	चरणमा दई सिंचाई लाभदायक छन्। सिक्किमको अवस्थामा मकै को बोट (स्केको) र चामल पराल जस्ता
		_	मृलेचिंग सामग्रीहरू माटोको ओस सरक्षण गर्न प्रयोग गर्न सकिन्छ। एफिडको व्यवस्थापनका लगि, नीमको
			तेल (1500 पीपीएम) @ 4ml मिले / एल स्प्रे गर्नुहोस
Cole crops	Head formation		During head initiation of and development stages proper moisture level of soil should be maintained.
			Cole crops should be harvest either on afternoon or early in the morning. Being a shallow crops earthing up
		_	must be carried on cole crops.
			Avoid stagnant water in the field. प्रमुख पहलको क्रममा र चरणहरूमा माटोको उचित ओस त
			कायम राख्न्पदेछ। कोल बालीहरू (cabbage, cauliflower and broccoli)या त दिउसो वा बिहान
			सबेरै उठाउन पर्छ। हल्का जरा बाली भएको कोल बालीमा माटो उठाएर लगाउन पर्छ।
Tomato	Fruiting		खेतमा जामेको पानीलाई हटानुश। Strict monitoring of crop against
Tomato	Tuning		attack of late blight. Cover the crop during night to protect
			from frost. Apply irrigation at the base of plant whenever required.
			लेटब्लइट आक्रमण रोकनोको लागि नियन्त्रन रेख देख गर्न्स्। शीतबाट बचाउन रातमा बालीलाई
			ढाक्नुहोस्।

	आवश्यकता अनुशार बिरुवाको फेदमा सिंचाई प्रयोग गर्नुहोस।
	West assessment
	Animal Sciences and livestock management
Sheep/goat	During winter months special care
	should be taken for sheep, goat for
	external parasites.
	जाडो महिनाहरूमा भेडा र बाखा हरुलाई
	परजीवीहरू बाटा ब्चाउनु लागि विशेष
	ध्यान राख्नु पर्छ।
Poultry/chicken	♦ Keep the Vanaraja chicks in warm
	condition (32-33°C) 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.
	
	चल्लाहरू न्यानो अवस्थामा (३२-
	३३०C) राख्न्होस
	 चिसी तनावका कारण कृख्राहरूको मृत्युलाई रोक्न कम गर्नेको लगि
	मृत्युलाई रोक्न कम गर्नुको लागे सस्तो पशु प्पालन गृह बनाउनु पर्छ।
	 पश् पालन गृह तापमान कायम गृर्निको
	 पश पालन गृह तापमान कायम गर्नको लाग लगातार बिज्ली प्रयोग गर्न्स र
	आपतकालिनको लोगि सिगिरि अथबा बुखारी प्रयोग गर्न सिकन्छ।
	जेलारा अलाग गण साकाळही

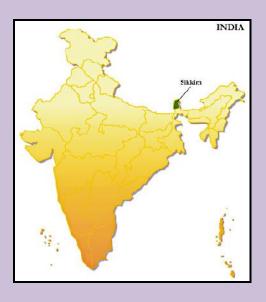
Agro-Met Advisory member of ICAR-NOFRI and KVK- East Sikkim				
Name Designation Departmen				
Dr. R. K. Avasthe	Joint Director	Soil Science		
Dr. Raghavendra Singh	Senior scientist and Head (I/C)	Agronomy		
Dr. P. K. Pathak	SMS	Animal science		
Dr. J.K. Singh	SMS	Plant Breeding		
Dr. Manoj Kumar	SMS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



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

5th FEBRUARY to 9th FEBRUARY 2020

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





ISSUED ON 4th February 2020

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 EAST-DISTRICT for next five days

Parameter/Date	05/02/2020	06/02/2020	07/02/2020	08/02/2020	09/02/2020
Rainfall (mm)	No rain	Very light rainfall	No rain	No rain	No rain
Max Temp (⁰ C)	12	11	11	12	12
Min Temp (⁰ C)	05	04	04	05	05
Sky condition	Partially clear	Generally cloudy	Partially clear	Generally cloudy	Generally cloudy
Max RH (%)	82	92	83	82	82
Min RH (%)	70	80	72	71	71
Wind Speed (KmpH)	002	003	003	002	002
Wind Direction (deg)	NE	NE	NE	NE	NE

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

Weather for preceding week				
Date	Rainfall	Max. Temp	Min. Temp	
31-1-2020	011	10.5	04.1	
1-2-2020	Trace	10.6	05.5	
2-2-2020	000	09.7	04.7	

- There is a probability of no rainfall on coming days.
- Max temp may be varying from 11-12°C, whereas, Min temp may vary from 4-5 °C
- > Sky will remain generally cloudy.
- Max RH is likely to be 82-92 %, whereas, Min RH may vary from 70-80 %
- > Wind speed may likely vary from 2-3 km/hr.
- > Wind direction may blow from northeasterly
- > Weekly cumulative rainfall= 001.0 mm

- Apply irrigation if temperature falls down below 4-5°C.
- 4 If dry condition prevails on field for longer time, apply water keep the field moist.
- ♣ While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable.
- ♣ Suitable soil water conservation technique should be maintained at the field; however, secondary source of irrigation should be available for vegetable crops.
- 🖶 सिँचाइ लागू गर्नुहोस यदि तापक्रम ४-५ डिग्री सेल्सियस तल झरे पिछ।
- यदि सुख्खा अवस्था लामो समयसम्म खेतमा रहन्छ भने पानी प्रयोग गर्नुहोस् खेतलाई
 चिसो राख्नुहोस्।
- जनावरहरूको निर्माणको लागि जगा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रन हुने हेर्नुस् ।
- खेती मा पानी संरक्षण गरनुको लागि तकनिक गरेर राख्नुपर्छः; यद्यपि तरकारी बालीका लागि सिंचाइको दोस्रो स्रोत उपलब्ध हुनुपर्दछ।

लाग सिपाइका पासा सात उपलब्द हुनुपदछ।						
Name of the	Stage	Cultural practices/	Agro-Met Advisories			
crop/Animal		Pest/ Diseases				
	Agricultural and Horticultural crops:					
Potato	Vegetative stage		 As a rule, soil must keep wet but hardening or too wet condition must be avoided. Irrigate the crop at 30-35 DAS and maintain the available soil moisture (ASM) at about 75 %. To protect the potato from chilling injury apply light irrigation on it. At 40-45 DAS little hoeing / earthing up should be done. Infected plants with late blight disease must be destroyed as soon as detected. Spray Blitox @ 2.5 g/l at 7-10 days interval to control Late blight disease. 			
			ण्क नियमको रू माटो भिजेको हन्पर्दछ तर कडा हुँदै छ वा धेरै भिजेको अवस्थाबाट टाढा रहन् पर्छ। ३०३५ दिन बाद बालीमा सिँचाइ गर्नहोस र उपलब्ध माटोको नि (ASM) लाई ७५% मा कायम राख्न्होस् आल्लाई जारोबाट ब्चाउन यसमा हल्का सिंचाई लगाउन्होस्। ४०-४५दिनको बाद खेतिमा ३ उठाएर लगाउन परछ। लेटब्लइट रोग सक्रमित हन् बित्तिके			

		•	आल् पत्ता लाई नष्ट गरदीन् पर्दछ। नित्र ब्लाईट रोग नियन्त्रण गर्न नित्र विनको मध्यान्तरमा ब्लिटक्स विश्व क्षेत्र क्षेत
Field pea	Pod formation		Soil moisture should be maintained for
			good growth and yield. One or two light and uniform
			irrigation should be given at flowering
			and fruiting stage.
			माटोको नॉमे रॉमो बिद्धे र उत्पादनको लागि कायम गर्नपर्दछ।
			एक वा दर्ड हल्का र एकसमान सिंचाड
			फूल र फलफूल न्रग्णमा दिन पर्छ।
Rapeseed-	Fruiting		Flowering and siliqua formation stages are critical for irrigation. So
Mustard/Toria			two irrigation at pre-bloom and pod
			formation stage are beneficial.
			In Sikkim condition mulching materials like maize stover and rice
			straw can be used to conserve soil
			moisture.
		-	For management of aphid, spray neem oil (1500 ppm) @ 4ml/l.
			सिंचाडुको लागि महत्त्वपूर्ण छ।
			त्यसोभए फूल-फूलने र फल लागने चुरुणमा दुई सिचाई लाभदायुक छन्।
			सिक्किमको अवस्थामा मकै को बोट
			(स्केक़ो) र चामल पराल् जस्ता
			मृतिचिंग सामग्रीहरू माटोको ओस संरक्षण गर्न प्रयोग गर्न सकिन्छ।
			एफिडको व्यवस्थापनका लगि, नीमको
			तेल (1500 पीपीएम) @ 4ml मिलि / एल स्प्रे गर्नहोस
Cole crops	Head formation		During head initiation of and
			development stages proper moisture level of soil should be maintained.
			Cole crops should be harvest either on
		_	afternoon or early in the morning.
			Being a shallow crops earthing up must be carried on cole crops.
			Avoid stagnant water in the field.
			प्रमुख पहुँ लको क्रममा र हि स चरणहरूमा माटोको उचित ओस त
			कायम राख्नुपर्दछ।
			कोल बालीहरू (cabbage, cauliflower
			and broccoli)या त दिउँसो वा बिहान सबेरै उठाउन पर्छ।
			हल्का जरा बाली भएको कोल बालीमा
			माटो उठाएर लगाउन् पर्छ। खेतमा ज़ामेको पानीलाई हटान्श।
Tomato	Fruiting		Strict monitoring of crop against
			attack of late blight.
			Cover the crop during night to protect from frost.
			Apply irrigation at the base of plant
			whenever required.
			लेटब्लइट आक्रमण रोकनोको लागि नियन्त्रन रेख देख गर्नुस्।
			शीतबाट बचाउन रोतमा बाली

	हाक्न्होस्। आवश्यकता अनुशार बिरुवाको फेदमा सिंचाई प्रयोग गर्नुहोस।
	Animal Sciences and livestock management
Sheep/goat	During winter months special care should be taken for sheep, goat for external parasites.
	 जाडो महिनाहरूमा भेडा र बाख्रा हरुलाई
	परजीवीहरू बाटा ब्चाउनु लागि विशेष ध्यान राख्नु पर्छ।
Poultry/chicken	♦ Keep the Vanaraja chicks in warm
1 outil y/cineken	condition (32-33°C) 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.
	चिहेलो चार इप्ताहरूमा भागाराजा
	चल्लाहरू न्यानी अवस्थामा (३२- ३३०८) राख्नुहोस
	 चिसो तुनावृका कारण कुखुराहरूको
	मृत्युलाई रोक्न कम गर्नुको लाग संस्तो पशु प्पालन गृह बनाउनु पर्छ।
	 पश पालने गृह तापमान कार्यम गर्नको लिग लगातार बिज्ली प्रयोग गर्नस प्
	आपतकालिनको लागि सौगीर अथबा
	बुखारी प्रयोग गर्न सिकन्छ।

Agro-Met Advisory member of ICAR-NOFRI and KVK- East Sikkim

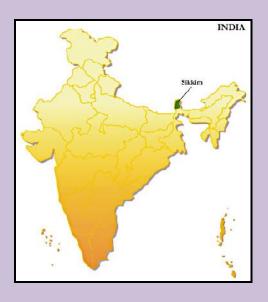
Name	Designation	Department
Dr. R. K. Avasthe	Joint Director	Soil Science
Dr. Raghavendra Singh	Senior scientist and Head (I/C)	Agronomy
Dr. P. K. Pathak	SMS	Animal science
Dr. J.K. Singh	SMS	Plant Breeding
Dr. Manoj Kumar	SMS	Agronomy
Sh. Boniface Lepcha	SMS	Horticulture
Sh. Santanu D as	SMS	Agril. Meteorology
Miss Tirtha Ku mari Chettri	Met. Observer	Biochemistry



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

5th FEBRUARY to 9th FEBRUARY 2020

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





ISSUED ON 4th February 2020

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 SOUTH-DISTRICT for next five days

Parameter/Date	05/02/2020	06/02/2020	07/02/2020	08/02/2020	09/02/2020
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp (⁰ C)	17	16	16	17	17
Min Temp (⁰ C)	06	05	05	06	06
Sky condition	Partially clear	Generally cloudy	Partially clear	Partially clear	Generally cloudy
Max RH (%)	80	85	80	80	83
Min RH (%)	67	70	67	67	69
Wind Speed (KmpH)	004	002	004	002	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						
	$ (\mathbf{mm}) \qquad (^{\mathrm{o}}\mathbf{C}) \qquad (^{\mathrm{o}}\mathbf{C}) $					
31-1-2020	N/A	N/A	N/A			
1-2-2020	N/A	13.4	N/A			
2-2-2020	N/A	N/A	05.0			

- > There is probability of no rainfall on coming days.
- Max temp may be varying from 16-17°C, whereas, Min temp may vary from 5-6°C
- > Sky will remain generally cloudy.
- Max RH is likely to be 80-85%, whereas, Min RH may vary from 67-70 %
- > Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow from northeasterly direction
- > Weekly cumulative rainfall= 000.0 mm

- ♣ Apply irrigation if temperature falls down below 4-5°C.
- ₩ If dry condition prevails on field for longer time, apply water keep the field moist.
- ♣ While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable.
- → Suitable soil water conservation technique should be maintained at the field; however, secondary source of irrigation should be available for vegetable crops.
- 🖶 सिँचाइ लागू गर्नुहोस यदि तापक्रम ४-५ डिग्री सेल्सियस तल झरे पिछ।
- यदि सुख्खा अवस्था लामो समयसम्म खेतमा रहन्छ भने पानी प्रयोग गर्नुहोस् खेतलाई
 चिसो राख्नुहोस्।
- 🖶 जनावरहरूको निर्माणको लागि जगा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रन हुने हेर्नुस् ।
- खेती मा पानी संरक्षण गरनुको लागि तकनिक गरेर राख्नुपर्छः यद्यपि तरकारी बालीका लागि सिंचाइको दोस्रो स्रोत उपलब्ध हन्पर्दछ।

लाग सियाइका दास्रा स्नात उपलब्द हुनुपदछ।					
Name of the	Stage	Cultural practices/	Agro-Met Advisories		
crop/Animal		Pest/ Diseases			
	Agric	ultural and Horticultu	ıral crops:		
Potato	Vegetative		■ As a rule, soil must keep wet but hardening or too wet condition must be avoided. ■ Irrigate the crop at 30-35 DAS and maintain the available soil moisture (ASM) at about 75 %. ■ To protect the potato from chilling injury apply light irrigation on it. ■ At 40-45 DAS little hoeing / earthing up should be done. ■ Infected plants with late blight disease must be destroyed as soon as detected. ■ Spray Blitox @ 2.5 g/l at 7-10 days interval to control Late blight disease. ■ VARIANT FOR THE PROPERTY OF THE		

		I	1	
			•	आल् पत्ता लाई नष्ट गरदीन पर्दछ। ग्लेट ब्लाईट रोग नियन्त्रण गर्न 7-10 दिनको मध्यान्तरमा ब्लिटक्स @ 2.5 g/l स्त्रे गर्नुहोस।
Field pea	Pod formation			Soil moisture should be maintained for good growth and yield.
			•	One or two light and uniform irrigation should be given at flowering
				and fruiting stage. माट्रोको नाम राम्नो बदि र उत्पादनको
				लगि कायम गर्नपर्दछ। एक वा दई हल्का र एकसमान सिंचाड
	D			फूलर फलेंफ्ल चरणमा दिन् पर्छ।
Rapeseed- Mustard/Toria	Fruiting		•	Flowering and siliqua formation stages are critical for irrigation. So
TVIustara, Toria				two irrigation at pre-bloom and pod formation stage are beneficial.
				In Sikkim condition mulching materials like maize stover and rice
				straw can be used to conserve soil
				moisture. For management of aphid, spray neem
				oil (1500 ppm) @ 4ml/l. फूल फुल्ने र स्थितिक्वा गठन चर्णहरू
				सिंचाइको लागि महत्त्वपूर्ण छ। त्यसोभए फूल्-फूलने र फल लागने
			_	चरणमा दुई सिंचाई लाभदायक छन्। सिक्किमको अवस्थामा मकै को बोट
			•	(स्केंक़ो) र चामल पराल
				मलिचेंग सामग्रीहरू माटोको अ संरक्षण् गर्न प्रयोग गर्न सिकृट्छ।
			-	एफिडको व्यवस्थापनका लागि, नीमको तेल (1500 पीपीएम) @ 4ml मिले / एल स्प्रे गर्नुहोस्
Cole crops	Head formation		-	During head initiation of and development stages proper moisture
				level of soil should be maintained. Cole crops should be harvest either on
				afternoon or early in the morning. Being a shallow crops earthing up
			_	must be carried on cole crops. Avoid stagnant water in the field.
				प्रमुखं पहलको क्रममा र विकास
				चरणहरूमा माटोको उचित ओस त
			•	कोल बालीह (cabbage. cauliflower and broccoli)या त दिउसी
				वा बिहान सबेरै उठाउन पर्छ। हल्का जरा बाली भएको कोल बालीमा
				माटो उठाएर लगाउन पर्छ। खेतमा जामेको पानीलाई हटान्श।
Tomato	Fruiting			Strict monitoring of crop against
				attack of late blight. Cover the crop during night to protect
				from frost. Apply irrigation at the base of plant
				whenever required. लेटब्लइट आक्रमण रोकनोको लगि
				नियन्त्रन रेख देख गर्नुस्। शीतबाट बचाउन रातमा बार्ल

	ढाक्न्होस्। आवश्यकता अनुशार बिरुवाको फेदमा सिंचाई प्रयोग गर्नुहोस।
	Animal Sciences and livestock management
Sheep/goat	 During winter months special care should be taken for sheep, goat for external parasites. जाडो महिनाहरूमा भेडा र बाखा हरुलाई
	परजीवीहरू बाटा ब्चाउनु लागि विशेष ध्यान राख्नु पर्छ।
Poultry/chicken	 ★ Keep the Vanaraja chicks in warm condition (32-33°C) 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.
	 पहिलो चार हप्ताहरूमा भागराजा चल्लाहर न्यांनो अवस्थामा (३२-३३०८) राख्न्होस चिसो त्रनावका कारण क्खराहरूको मृत्युलाई रोक्न कम गर्नुको लाग सस्तो पशु प्पालन गृह बनाउन् पर्छ। पश पालन गृह तापमान कायम गर्नुको लाग लगातार बिज्ली प्रयोग गर्नुस र आपतकालिनको लाग सिंगिर अथबा ब्खारी प्रयोग गर्न सिकन्छ।

Agro-Met Advisory member of ICAR-NOFRI and KVK- East Sikkim

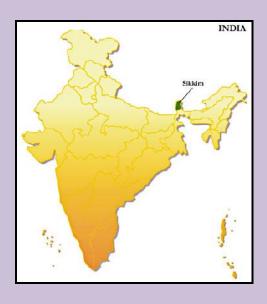
Name	Designation	Department
Dr. R. K. Avasthe	Joint Director	Soil Science
Dr. Raghavendra Singh	Senior scientist and Head (I/C)	Agronomy
Dr. P. K. Pathak	SMS	Animal science
Dr. J.K. Singh	SMS	Plant Breeding
Dr. Manoj Kumar	SMS	Agronomy
Sh. Boniface Lepcha	SMS	Horticulture
Sh. Santanu Das	SMS	Agril. Meteorology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



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

5th FEBRUARY to 9th FEBRUARY 2020

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





ISSUED ON 4th February 2020

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 WEST-DISTRICT for next five days

Parameter/Date	05/02/2020	06/02/2020	07/02/2020	08/02/2020	09/02/2020
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp (⁰ C)	15	14	13	14	14
Min Temp (⁰ C)	05	04	04	05	05
Sky condition	Generally cloudy	Generally cloudy	Partially clear	Partially clear	Generally cloudy
Max RH (%)	81	88	80	80	81
Min RH (%)	70	78	69	69	70
Wind Speed (KmpH)	003	004	004	003	003
Wind Direction (deg)	W	W	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)		
31-1-2020	005	N/A	N/A		
1-2-2020	000	13.8	N/A		
2-2-2020	000	N/A	04.3		

- There is probability of no rainfall on coming days.
- Max temp may be varying from 13-15°C, whereas, Min temp may vary from 4-5°C
- Sky will remain generally cloudy.
- Max RH is likely to be 81-88 %, whereas, Min RH may vary from 69-78 %
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from northwesterly.
- > Weekly cumulative rainfall= 010.0 mm

- Apply irrigation if temperature falls down below 4-5°C.
- ☐ If dry condition prevails on field for longer time, apply water keep the field moist.
- ♣ While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable.
- ♣ Suitable soil water conservation technique should be maintained at the field; however, secondary source of irrigation should be available for vegetable crops.
- 🖶 सिँचाइ लागू गर्नुहोस यदि तापक्रम ४-५ डिग्री सेल्सियस तल झरे पिछ।
- यदि सुख्खा अवस्था लामो समयसम्म खेतमा रहन्छ भने पानी प्रयोग गर्नुहोस् खेतलाई
 चिसो राख्नुहोस्।
- 🖶 जनावरहरूको निर्माणको लागि जगा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रन हुने हेर्नुस् ।
- खेती मा पानी संरक्षण गरनुको लागि तकनिक गरेर राख्नुपर्छः; यद्यपि तरकारी बालीका लागि सिंचाइको दोस्रो स्रोत उपलब्ध हन्पर्दछ।

लाग रिवाइका दासा सारा उक्तक्व हुन्। वदा							
Name of the	Stage	Cultural practices/	Agro-Met Advisories				
crop/Animal		Pest/ Diseases					
	Agricultural and Horticultural crops:						
	Agrica	นเนเลเ ลแน ทบเนนนเน	และ ตบคร.				
Potato	Vegetative		As a rule, soil must keep wet but				
	stage		hardening or too wet condition must				
			be avoided.				
			■ Irrigate the crop at 30-35 DAS and maintain the available soil moisture				
			(ASM) at about 75 %.				
			To protect the potato from chilling				
			injury apply light irrigation on it.				
			At 40-45 DAS little hoeing / earthing				
			up should be done.				
			Infected plants with late blight				
			disease must be destroyed as soon as detected.				
			Spray Blitox @ 2.5 g/l at 7-10 days				
			interval to control Late blight disease.				
	-		एक ज़ियमको रु माटो				
			भिजेको हुन्पर्दछ तर कडा हुँदै छ वा				
			धेर्रै भिजेको अवस्थाबाट टाढा रहर				
			पछ।				
			 ३०३५ दिन बाद बालीमा सिँचाइ गर्नुहोस र उपलब्ध माटोको निम्ने 				
			(ASM) लाई ७५% मा कायम				
			राखनुहोस्				
			 आल्लाई जारोबाट बचाउन यसमा 				
			हल्का सिचार्ड लगाउनहोस।				
			 ४०-४५दिनको बाद ेखेतिमा मात् 				
			उठाएर लगाउन परछ।				
			 लेटब्लइट रोग सक्रमित हुन बित्तिक । आलू पत्ता लाई नष्ट गरदीन पर्दछ। 				
			Sitt ittle the site of the site of				

		•	लेटू ब्लाइंट रोग नियन्त्रण गर्ने
			7-10 दिनको मध्यान्तरमा ब्लिटक्स @ 2.5 g/l स्त्रे गर्नहोस।
Field pea	Pod formation		Soil moisture should be maintained for good growth and yield.
			One or two light and uniform
			irrigation should be given at flowering
		_	and fruiting stage.
		*	माटोको नमि रामो बेदि र उत्पादनको लिग कायम् गर्नुपर्दछ।
			एक वा दई हल्का र एकसमान सिंचाइ फूल र फलेफूल चरणमा दिन् पर्छ।
Rapeseed-	Fruiting		Flowering and siliqua formation
Mustard/Toria			stages are critical for irrigation. So two irrigation at pre-bloom and pod
			formation stage are beneficial.
			In Sikkim condition mulching
			materials like maize stover and rice
			straw can be used to conserve soil moisture.
			For management of aphid, spray neem
			oil (1500 ppm) @ 4ml/l.
			फूल फूल्ने र सिंलिक्वा गठन चरणहरू सिंचाइको लागि महत्त्वपूर्ण छ
			त्यसीभए फूल-फूलने र फल लागने
		_	चरणमा दुई सिचाई लाभदायक छन्।
		•	सिक्किमको अवस्थामा मकै को बोट (सकेको) र चामल पराल जम्म
			मुलचिंग सामग्रीहरू माटोको ओ
			सरक्षण् गर्न प्रयोग गर्न सिक्ट्छ।
			एफिडको व्यवस्थापनका लागि, नीमको तेल (1500 पीपीएम) @ 4ml मिले /
			ver the period of the period o
Cole crops	Head formation		During head initiation of and
			development stages proper moisture
			level of soil should be maintained. Cole crops should be harvest either on
			afternoon or early in the morning.
			Being a shallow crops earthing up
		_	must be carried on cole crops.
			Avoid stagnant water in the field. प्रमुख पहलको क्रममा र विकास
			चरणहरूमा माटोको उचित ओस तह
			कायम राख्न्पर्दछ।
			कोल बालीहरू (cabbage, cauliflower and broccoli)या त दिउसी
			वा बिहान सबेरै उठाउन पर्छ।
			हल्का जरा बाली भएको कोल बालीमा
			मारो उठाएर् लगाउन् पर्छ।
Tomato	Fruiting		खेतमा ज़ामेको पार्नीलाई हटान्श। Strict monitoring of crop against
Tomato	Truiting		attack of late blight.
			Cover the crop during night to protect
			from frost. Apply irrigation at the base of plant
			whenever required.
			लेटब्लइट आक्रमण रोकनोको लागि नियन्त्रन रेख देख गर्नुस।
			शीतबाट बचाउन रातेमा बार्ल
			ढाक्न्होस्।

		 आवश्यकता अनुशार बिरुवाको फेदम सिंचाई प्रयोग गर्नुहोस।
		West a section
	Animal Sciences and	d livestock management
Sheep/goat		During winter months special care
		should be taken for sheep, goat for
		external parasites.
		🔷 जाडो महिनाहरूमा भेडा र बाखा हरुलाई
		परजीवीहरू बाटा ब्चाउनु लागि विशेष
		ध्यान राख्नु पर्छ।
Poultry/chicken		★ Keep the Vanaraja chicks in warm
		condition (32-33°C) 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.
		 पहिलो चार हप्ताहरूमा भानाराजा चल्लाहरू न्यानो अवस्थामा (३२-३३०C)
		राख्नुहोस
		🔷 चिसी तुनावका कारण कुखुराहरूको
		मृत्युलाई रोक्न कम गर्नुको लागि सस्तो
		पंश पालन गृह बनाउन पर्छ।
		लगि लगातार बिजली प्रयोग गर्नस
		 पशे पालन गृह तापमान कायम गर्नको लागि लगातार बिज्ली प्रयोग गर्न्स । आपतकालिनको लागि सिगिर अथबा ब्खारी प्रयोग गर्न सिकन्छ।
		प्रयोग गर्न सिकन्छ।

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	Senior scientist and Head (I/C)	Agronomy			
Dr. P. K. Pathak	SMS	Animal science			
Dr. J.K. Singh	SMS	Plant Breeding			
Dr. Manoj Kumar	SMS	Agronomy			
Sh. Boniface Lepcha	SMS	Horticulture			
Sh. Santanu Das	SMS	Agril. Meteorology			
Miss Tirtha Kumari Chettri	Met. Observer	Biochemistry			