

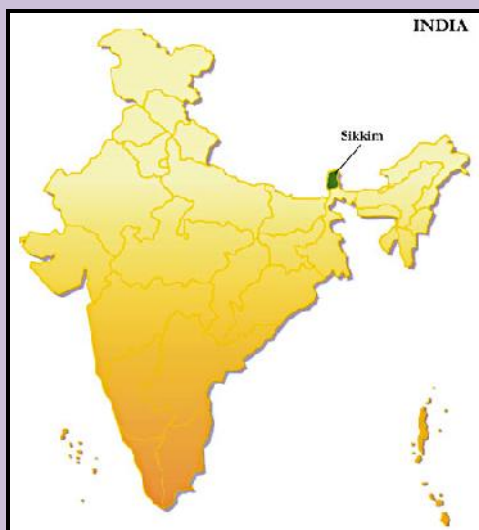


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF NORTH SIKKIM

PERIOD:

29th OCTOBER to 3rd NOVEMBER' 2019

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



ISSUED ON 29th October 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

Issued by: Santanu Das, SMS (Agril. Meteorology), ICAR-KVK, East Sikkim, Ranipool

Value Added forecast for NORTH-DISTRICT for next five days

Parameter/Date	30/10/2019	31/10/2019	01/11/2019	02/11/2019	03/11/2019
Rainfall (mm)	No rain	Very light rain	Light rain	No rain	No rain
Max Temp (°C)	26	26	24	24	25
Min Temp (°C)	13	13	13	13	13
Sky condition	Partially clear	Generally cloudy	Partially clear	Partially clear	Partially clear
Max RH (%)	85	91	93	84	82
Min RH (%)	58	65	62	58	60
Wind Speed (Kmph)	008	009	008	007	010
Wind Direction (deg)	SE	SE	SE	SE	SE

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

Weather for preceding week			
Date	Rainfall	Max. Temp	Min. Temp
	(mm)	(°C)	(°C)
26/10/2019	000	25.3	13.9
27/10/2019	000	23.0	14.2
28/10/2019	000	24.3	15.1

Weather forecast valid up to 3rd November 2019


- Probability of No rain.
- Max temp may be varying from 24-26°C, whereas, Min temp may vary from 0-13°C
- Sky will remain partially clear.
- Max RH is likely to be 82-91 %, whereas, Min RH may vary from 58-65 %
- Wind speed may likely vary from 7-10 km/hr.
- Wind direction may blow from southeasterly direction.
- Weekly cumulative rainfall= 6 mm

AGRO-METEOREOLOGICAL ADVISORIES

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 crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<i>Agricultural and Horticultural crops:</i>			
Rice	Grain maturity to harvesting and postharvest		<ul style="list-style-type: none">◆ 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/flowering		<ul style="list-style-type: none">◆ Irrigate crop at flowering stage.
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none">◆ 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	<ul style="list-style-type: none">◆ 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		<ul style="list-style-type: none">◆ 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 Mandarin	Planting/fruiting		<ul style="list-style-type: none"> ◆ 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.
<i>Animal Sciences and livestock management</i>			
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> ◆ 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.
Sheep/goat			<ul style="list-style-type: none"> ◆ 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
<i>Dr. R. K. Avasthe</i>	Joint Director	Soil Science
<i>Dr. Raghavendra Singh</i>	Senior scientist and Head (I/C)	Agronomy
<i>Dr. P. K. Pathak</i>	SMS	Animal science
<i>Dr. J.K. Singh</i>	SMS	Plant Breeding
<i>Dr. Manoj Kumar</i>	SMS	Agronomy
<i>Sh. Boniface Lepcha</i>	SMS	Horticulture
<i>Sh. Santanu Das</i>	SMS	Agril. Meteorology
<i>Miss Tirtha Kumari Chettri</i>	Met. Observer	Biochemistry

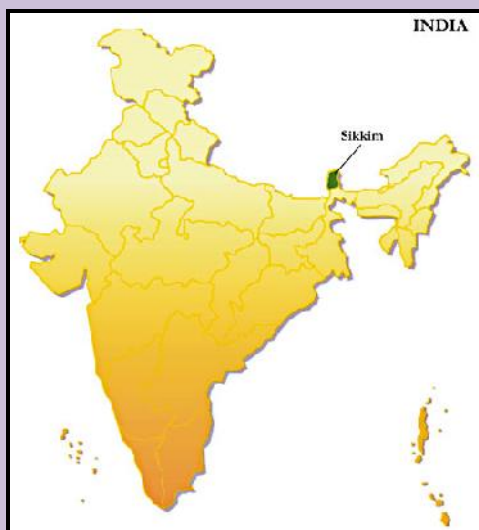


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF EAST SIKKIM

PERIOD:

29th OCTOBER to 3rd NOVEMBER' 2019

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



ISSUED ON 29th October 2019

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

Issued by: Santanu Das, SMS (Agril. Meteorology), ICAR-KVK, East Sikkim, Ranipool

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	30/10/2019	31/10/2019	01/11/2019	02/11/2019	03/11/2019
Rainfall (mm)	No rain	No rain	002	No rain	No rain
Max Temp ($^{\circ}$ C)	21	20	18	19	19
Min Temp ($^{\circ}$ C)	12	12	11	11	12
Sky condition	Partially clear	Partially clear	Partially clear	Clear sky	Clear sky
Max RH (%)	82	85	91	83	82
Min RH (%)	61	63	62	63	61
Wind Speed (Kmph)	008	006	009	009	009
Wind Direction (deg)	NE	NE	NE	NE	NE

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

Weather for preceding week			
Date	Rainfall	Max. Temp	Min. Temp
26/10/2019	000	19.2	12.5
27/10/2019	000	18.4	13.2
28/10/2019	000	19.9	12.7

Weather forecast valid up to 3rd November 2019


- There is no probability of rainfall.
- Max temp may be varying from 18-21 $^{\circ}$ C, whereas, Min temp may vary from 11-12 $^{\circ}$ C
- Sky will remain partially clear
- Max RH is likely to be 82-91 %, whereas, Min RH may vary from 61-63 %
- Wind speed may likely vary from 8-9 km/hr.
- Wind direction may blow from northeasterly
- Weekly cumulative rainfall= 2 mm

AGRO-METEOREOLOGICAL ADVISORIES

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 crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<i>Agricultural and Horticultural crops:</i>			
Rice	Grain maturity to harvesting and postharvest		<ul style="list-style-type: none"> ◆ 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/flowering		<ul style="list-style-type: none"> ◆ Irrigate crop at flowering stage.
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ 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		<ul style="list-style-type: none"> ◆ 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 Mandarin	Planting/fruiting		<ul style="list-style-type: none"> 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.
<i>Animal Sciences and livestock management</i>			
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> 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.
Sheep/goat			<ul style="list-style-type: none"> 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
<i>Dr. R. K. Avasthe</i>	Joint Director	Soil Science
<i>Dr. Raghavendra Singh</i>	Senior scientist and Head (I/C)	Agronomy
<i>Dr. P. K. Pathak</i>	SMS	Animal science
<i>Dr. J.K. Singh</i>	SMS	Plant Breeding
<i>Dr. Manoj Kumar</i>	SMS	Agronomy
<i>Sh. Boniface Lepcha</i>	SMS	Horticulture
<i>Sh. Santanu Das</i>	SMS	Agril. Meteorology
<i>Miss Tirtha Kumari Chettri</i>	Met. Observer	Biochemistry

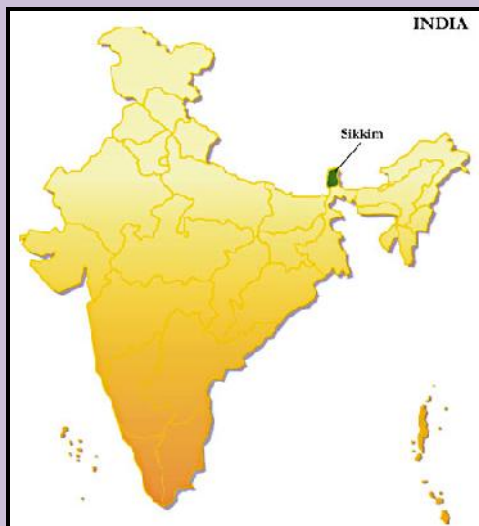


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF SOUTH SIKKIM PERIOD:



29th OCTOBER to 3rd NOVEMBER' 2019

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



ISSUED ON 29th October 2019

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- 4) South District with HQ at Namchi

Issued by: Santanu Das, SMS (Agril. Meteorology), ICAR-KVK, East Sikkim, Ranipool

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	30/10/2019	31/10/2019	01/11/2019	02/11/2019	03/11/2019
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp ($^{\circ}\text{C}$)	24	24	22	22	23
Min Temp ($^{\circ}\text{C}$)	14	14	13	13	13
Sky condition	Partially clear	Partially clear	Partially clear	Clear sky	Clear sky
Max RH (%)	82	84	88	83	80
Min RH (%)	68	65	63	66	61
Wind Speed (Kmph)	006	006	008	007	008
Wind Direction (deg)	NE	NE	NE	NE	NE

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

Weather for preceding week			
Date	Rainfall	Max. Temp	Min. Temp
	(mm)	($^{\circ}\text{C}$)	($^{\circ}\text{C}$)
26/10/2019	N/A	23.5	12.9
27/10/2019	N/A	21.1	13.2
28/10/2019	N/A	25.3	13.5

Weather forecast valid up to 3rd November 2019


- There will be no rainfall
- Max temp may be varying from 22-24 $^{\circ}\text{C}$, whereas, Min temp may vary from 13-14 $^{\circ}\text{C}$
- Sky will remain partially clear.
- Max RH is likely to be 82-88 %, whereas, Min RH may vary from 61-68 %
- Wind speed may likely vary from 6-8 km/hr.
- Wind direction may blow from northeasterly direction
- Weekly cumulative rainfall= 000.0 mm

AGRO-METEOREOLOGICAL ADVISORIES

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 crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<i>Agricultural and Horticultural crops:</i>			
Rice	Grain maturity to harvesting and postharvest		<ul style="list-style-type: none">◆ 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/flowering		<ul style="list-style-type: none">◆ Irrigate crop at flowering stage.
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none">◆ 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	<ul style="list-style-type: none">◆ 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		<ul style="list-style-type: none">◆ 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 Mandarin	Planting/fruiting		<ul style="list-style-type: none"> ◆ 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.
<i>Animal Sciences and livestock management</i>			
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> ◆ 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.
Sheep/goat			<ul style="list-style-type: none"> ◆ 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

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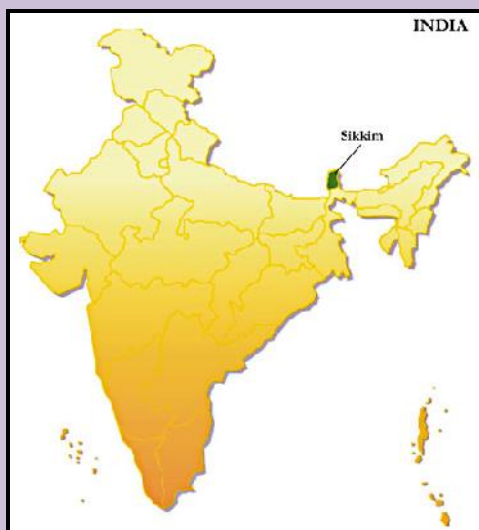


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF WEST SIKKIM

PERIOD:

29th OCTOBER to 3rd NOVEMBER' 2019

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



ISSUED ON 29th October 2019

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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

Issued by: Santanu Das, SMS (Agril. Meteorology), ICAR-KVK, East Sikkim, Ranipool

Value Added forecast for WEST-DISTRICT for next five days

Parameter/Date	30/10/2019	31/10/2019	01/11/2019	02/11/2019	03/11/2019
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp ($^{\circ}\text{C}$)	23	23	21	21	22
Min Temp ($^{\circ}\text{C}$)	13	13	12	12	12
Sky condition	Partially clear	Generally cloudy	Partially clear	Partially clear	Partially clear
Max RH (%)	90	91	92	91	90
Min RH (%)	76	75	72	74	76
Wind Speed (Kmph)	008	009	010	009	009
Wind Direction (deg)	NW	NW	NW	NW	NW

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

Weather for preceding week			
Date	Rainfall	Max. Temp	Min. Temp
	(mm)	($^{\circ}\text{C}$)	($^{\circ}\text{C}$)
26/10/2019	N/A	22.1	12.6
27/10/2019	N/A	20.2	08.0
28/10/2019	N/A	23.4	13.2

Weather forecast valid up to 3rd November 2019


- Probability of no rainfall
- Max temp may be varying from 21-23 $^{\circ}\text{C}$, whereas, Min temp may vary from 12-13 $^{\circ}\text{C}$
- Sky will remain partially clear.
- Max RH is likely to be 90-92 %, whereas, Min RH may vary from 72-76 %
- Wind speed may likely vary from 8-10 km/hr.
- Wind direction may blow from northwesterly.
- Weekly cumulative rainfall= 000.0 mm

AGRO-METEOREOLOGICAL ADVISORIES

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 crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<i>Agricultural and Horticultural crops:</i>			
Rice	Grain maturity to harvesting and postharvest		<ul style="list-style-type: none">◆ 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/flowering		<ul style="list-style-type: none">◆ Irrigate crop at flowering stage.
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none">◆ 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	<ul style="list-style-type: none">◆ 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		<ul style="list-style-type: none">◆ 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 Mandarin	Planting/fruiting		<ul style="list-style-type: none"> ◆ 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.
<i>Animal Sciences and livestock management</i>			
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> ◆ 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.
Sheep/goat			<ul style="list-style-type: none"> ◆ During winter months special care should be taken for sheep, goat for external parasites.

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