

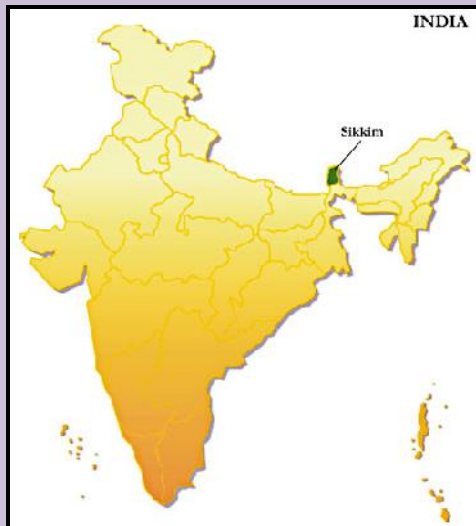


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF EAST SIKKIM

PERIOD:

16th NOVEMBER' to 20th NOVEMBER' 2019

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



ISSUED ON 15th 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

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

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	16/11/2019	17/11/2019	18/11/2019	19/11/2019	20/11/2019
Rainfall (mm)	No rain	No rain	Very light rain	Very light rain	No rain
Max Temp (°C)	21	20	19	18	18
Min Temp (°C)	13	13	13	12	12
Sky condition	Partially clear	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	75	80	90	92	89
Min RH (%)	62	69	70	75	72
Wind Speed (Kmph)	003	003	003	003	003
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
12/11/2019	000	16.0	13.5
13/11/2019	000	19.0	12.9
14/11/2019	000	20.7	13.3

Weather forecast valid up to 20th November 2019


- There is no probability of rainfall.
- Max temp may be varying from 18-21°C, whereas, Min temp may vary from 0-13 °C
- Sky will remain generally cloudy
- Max RH is likely to be 75-92 %, whereas, Min RH may vary from 62-75 %
- Wind speed may likely vary from 0-3 km/hr.
- Wind direction may blow from northeasterly
- Weekly cumulative rainfall= 003.0 mm

AGRO-METEOROLOGICAL 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

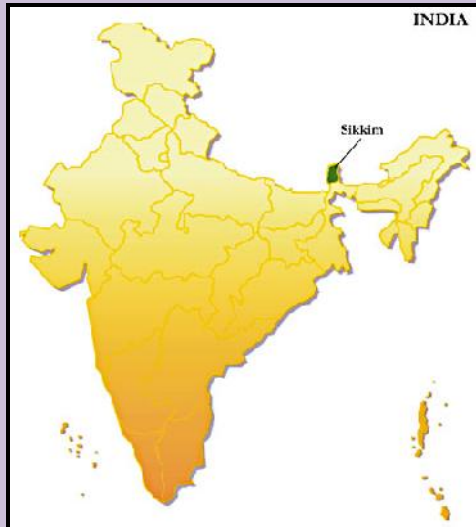


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF NORTH SIKKIM

PERIOD:

16th NOVEMBER' to 20th NOVEMBER' 2019

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



ISSUED ON 15th November 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 NORTH-DISTRICT for next five days

Parameter/Date	16/11/2019	17/11/2019	18/11/2019	19/11/2019	20/11/2019
Rainfall (mm)	No rain	No rain	Very light rainfall	Very light rainfall	No rain
Max Temp (°C)	25	25	25	23	23
Min Temp (°C)	14	14	14	13	13
Sky condition	Partially clear	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	70	75	90	92	90
Min RH (%)	55	60	75	78	75
Wind Speed (Kmph)	004	004	003	004	004
Wind Direction (deg)	E	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 (mm)	Max. Temp (°C)	Min. Temp (°C)
12/11/2019	000	N/A	N/A
13/11/2019	000	24.0	13.9
14/11/2019	000	N/A	14.0

Weather forecast valid up to 20th November 2019


- Probability of no rain.
- Max temp may be varying from 23-25°C, whereas, Min temp may vary from 13-14°C
- Sky will remain generally cloudy.
- Max RH is likely to be 70-90 %, whereas, Min RH may vary from 55-78 %
- Wind speed may likely vary from 3-4 km/hr.
- Wind direction may blow from southeasterly direction.
- Weekly cumulative rainfall= 006.0 mm

AGRO-METEOROLOGICAL 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
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<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

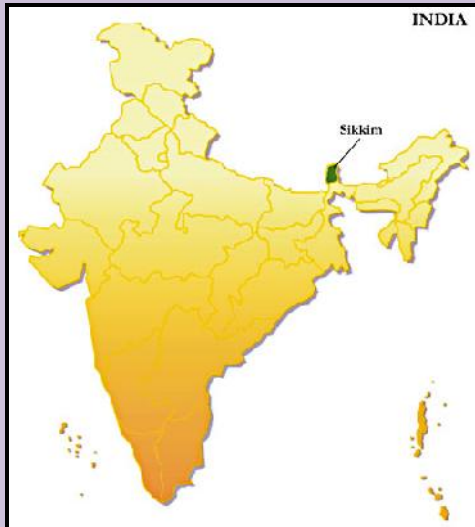


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF SOUTH SIKKIM

PERIOD:

16th NOVEMBER' to 20th NOVEMBER' 2019

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



ISSUED ON 15th 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

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

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	16/11/2019	17/11/2019	18/11/2019	19/11/2019	20/11/2019
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp (°C)	25	24	23	22	22
Min Temp (°C)	13	13	13	13	13
Sky condition	Partially clear	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	65	70	75	85	85
Min RH (%)	45	55	65	70	70
Wind Speed (Kmph)	002	003	002	003	003
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)	(°C)	(°C)
12/11/2019	N/A	21.5	12.9
13/11/2019	N/A	24.2	12.5
14/11/2019	000	23.8	13.0

Weather forecast valid up to 20th November 2019


- There will be no rainfall
- Max temp may be varying from 22-25°C, whereas, Min temp may vary from 0-13°C
- Sky will remain generally cloudy.
- Max RH is likely to be 65-85 %, whereas, Min RH may vary from 45-70 %
- Wind speed may likely vary from 2-3 km/hr.
- Wind direction may blow from northeasterly direction
- Weekly cumulative rainfall= 000.0 mm

AGRO-METEOROLOGICAL 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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<i>Sh. Santanu Das</i>	SMS	Agril. Meteorology
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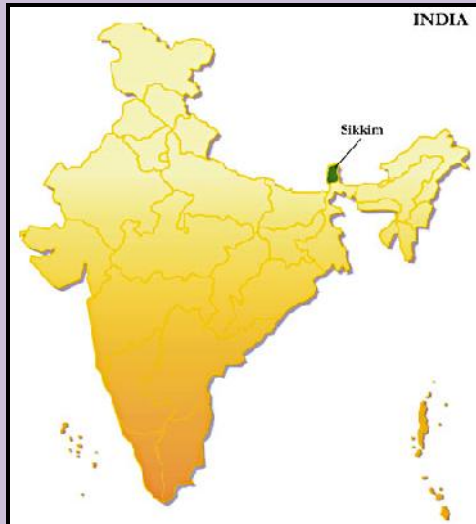


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF WEST SIKKIM

PERIOD:

16th NOVEMBER' to 20th NOVEMBER' 2019

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



ISSUED ON 15th November 2019

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- 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 WEST-DISTRICT for next five days

Parameter/Date	16/11/2019	17/11/2019	18/11/2019	19/11/2019	20/11/2019
Rainfall (mm)	No rain	No rain	No rain	Very light rainfall	No rain
Max Temp (°C)	24	23	22	20	20
Min Temp (°C)	13	13	13	12	11
Sky condition	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	70	75	85	90	90
Min RH (%)	57	60	68	75	75
Wind Speed (Kmph)	003	004	003	003	004
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)	(°C)	(°C)
12/11/2019	000	N/A	N/A
13/11/2019	000	N/A	N/A
14/11/2019	000	N/A	N/A

Weather forecast valid up to 20th November 2019


- Probability of no rainfall
- Max temp may be varying from 20-24°C, whereas, Min temp may vary from 11-13°C
- Sky will remain generally cloudy.
- Max RH is likely to be 70-90 %, whereas, Min RH may vary from 57-75 %
- Wind speed may likely vary from 3-4 km/hr.
- Wind direction may blow from northwesterly.
- Weekly cumulative rainfall= 002.0 mm

AGRO-METEOROLOGICAL 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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