

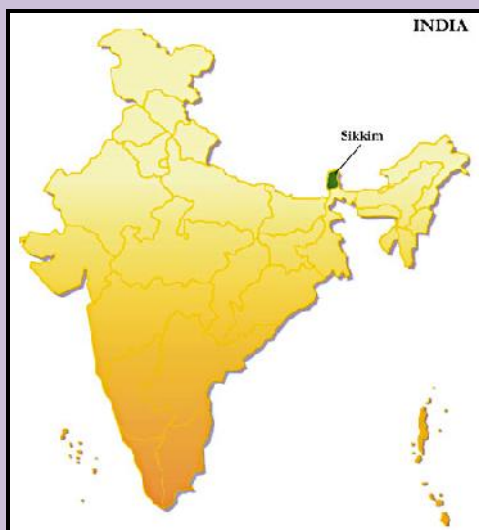


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF EAST SIKKIM

## PERIOD:

**23<sup>rd</sup> OCTOBER to 27<sup>th</sup> OCTOBER' 2019**

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



**ISSUED ON 22<sup>nd</sup> 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 EAST-DISTRICT for next five days

Parameter/Date	23/10/2019	24/10/2019	25/10/2019	26/10/2019	27/10/2019
Rainfall (mm)	No rain	Very light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp ( $^{\circ}\text{C}$ )	20	20	18	16	17
Min Temp ( $^{\circ}\text{C}$ )	14	14	13	11	11
Sky condition	Partially clear	Generally cloudy	Generally cloudy	Cloudy	Generally cloudy
Max RH (%)	82	90	92	94	90
Min RH (%)	75	75	78	78	78
Wind Speed (Kmph)	005	005	003	003	004
Wind Direction (deg)	NE	E	SE	E	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
19/10/2019			
20/10/2019			
21/10/2019			

### Weather forecast valid up to 27<sup>th</sup> October 2019

- Probability of light rainfall.
- Max temp may be varying from 16-20  $^{\circ}\text{C}$ , whereas, Min temp may vary from 11-14  $^{\circ}\text{C}$
- Sky will remain generally cloudy
- Max RH is likely to be 82-94 %, whereas, Min RH may vary from 75-82 %
- Wind speed may likely vary from 3-5 km/hr.
- Wind direction may blow from northeasterly
- Weekly cumulative rainfall= 25 mm

## AGRO-METEREOLOGICAL ADVISORIES


### General Advisories for all the crops/ livestock

- ➡ If there is a probability of light rainfall, farmers are advised to keep drainage facilities on their field and harvest all the matured crops.
- ➡ During high humidity and cloudy weather there may be infestation of insect pest, so the farmers are suggested to apply neem oil.
- ➡ Bunds to be provide to reduce nutrient lost due to high rainfall.
- ➡ Rain water harvesting through *jalkund* should be done to conserve excess rain water during high rainfall.
- ➡ Excess water stagnation may cause fungal and bacterial diseases to the crops.
- ➡ While selecting site for construction of 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
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Tillering		<ul style="list-style-type: none"><li>◆ Maintain 5 cm of water in the paddy field.</li><li>◆ First weeding should be completed at 30-35 days after transplanting.</li></ul>
Black gram (Pahelo dal) /Rjmash/Cowpe a	Vegetative		<ul style="list-style-type: none"><li>◆ Farmers are advised to provide proper drainage in the field to avoid wilting in high rainfall areas.</li><li>◆ First weeding should be completed after 25-30 days of sowing to avoid weed competition.</li></ul>
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none"><li>◆ Allow minimum entry to crop field to reduce disease infestation.</li><li>◆ Allow proper drainage to avoid stagnation of water in the field.</li><li>◆ Timely monitor the field to check the attack of bacterial wilt due to high humidity and temperature.</li></ul>
Red cherry pepper/Brinjal/ Toamto	Fruiting	Blight	<ul style="list-style-type: none"><li>◆ Allow proper drainage to remove excess rain water from the field.</li><li>◆ Timely monitor the field to check the attack of bacterial will due to high humidity and temperature.</li><li>◆ Due to high temperature and high</li></ul>

			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"> <li>❖ The nursery site should be dry and free from water stagnation as well as high moisture in the soil.</li> <li>❖ To protect from heavy rain the nursery should be in semi protected area.</li> </ul>
Sikkim Mandarin	Planting/fruiting		<ul style="list-style-type: none"> <li>❖ 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.</li> </ul>

### *Animal Sciences and livestock management*

Cattle			<ul style="list-style-type: none"> <li>❖ Provide plenty of cold clean drinking water to your livestock at the time between 01 to 3 pm during the peak summer months.</li> <li>❖ Maintain hygienic condition of animal shed and disinfect the animal shed with 10% formalin solution.</li> </ul>
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> <li>❖ Provide proper ventilation to poultry birds to prevent from heat stress during summer months</li> <li>❖ Periodic supplementation of vitamins and minerals to your livestock is very much essential during hot weather.</li> <li>❖ Special care should be taken for mite and Gastro Intestinal tape worm in case of poultry during the hot and humid summer months.</li> <li>❖ Take preventive measures against <b>Coccidiosis</b> of poultry during summer months.</li> </ul>
Pig	All stages	Swine fever	<ul style="list-style-type: none"> <li>❖ Provide creep area (separate enclosure, where the piglets have access but the sow does not) with heat source (200 watt bulb) to reduce piglet mortality due to cold weather.</li> </ul>

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

<b>Name</b>	<b>Designation</b>	<b>Department</b>
<b><i>Dr. R. K. Avasthe</i></b>	<b>Joint Director</b>	<b>Soil Science</b>
<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

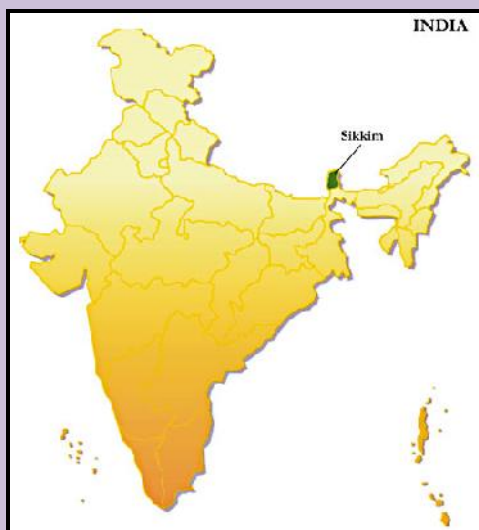


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF NORTH SIKKIM

## PERIOD:

**23<sup>rd</sup> OCTOBER to 27<sup>th</sup> OCTOBER' 2019**

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



**ISSUED ON 22<sup>nd</sup> 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	23/10/2019	24/10/2019	25/10/2019	26/10/2019	27/10/2019
Rainfall (mm)	No rain	Light rain	Light rain	Moderate rain	Very light rain
Max Temp (°C)	23	23	21	19	20
Min Temp (°C)	14	14	13	12	13
Sky condition	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	83	90	91	93	90
Min RH (%)	70	72	80	83	75
Wind Speed (Kmph)	006	005	004	005	004
Wind Direction (deg)	SE	S	SE	S	S

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)
19/10/2019	000	25.1	15.0
20/10/2019	000	21.7	16.1
21/10/2019	000	17.2	14.8

### Weather forecast valid up to 27<sup>th</sup> October 2019

- Probability of light rainfall.
- Max temp may be varying from 19-23°C, whereas, Min temp may vary from 12-14°C
- Sky will remain generally cloudy.
- Max RH is likely to be 83-93 %, whereas, Min RH may vary from 70-83 %
- Wind speed may likely vary from 4-6 km/hr.
- Wind direction may blow from southerly direction.
- Weekly cumulative rainfall= 36 mm


## AGRO-METEOROLOGICAL ADVISORIES

### General Advisories for all the crops/ livestock

- ➡ If there is a probability of light rainfall, farmers are advised to keep drainage facilities on their field and harvest all the matured crops.
- ➡ During high humidity and cloudy weather there may be infestation of insect pest, so the farmers are suggested to apply neem oil.
- ➡ Bunds to be provide to reduce nutrient lost due to high rainfall.
- ➡ Rain water harvesting through *jalkund* should be done to conserve excess rain water during high rainfall.
- ➡ Excess water stagnation may cause fungal and bacterial diseases to the crops.
- ➡ While selecting site for construction of 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
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Tillering		<ul style="list-style-type: none"><li>◆ Maintain 5 cm of water in the paddy field.</li><li>◆ First weeding should be completed at 30-35 days after transplanting.</li></ul>
Black gram (Pahelo dal) /Rjmash/Cowpe a	Vegetative		<ul style="list-style-type: none"><li>◆ Farmers are advised to provide proper drainage in the field to avoid wilting in high rainfall areas.</li><li>◆ First weeding should be completed after 25-30 days of sowing to avoid weed competition.</li></ul>
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none"><li>◆ Allow minimum entry to crop field to reduce disease infestation.</li><li>◆ Allow proper drainage to avoid stagnation of water in the field.</li><li>◆ Timely monitor the field to check the attack of bacterial wilt due to high humidity and temperature.</li></ul>
Red cherry pepper/Brinjal/ Toamto	Fruiting	Blight	<ul style="list-style-type: none"><li>◆ Allow proper drainage to remove excess rain water from the field.</li><li>◆ Timely monitor the field to check the attack of bacterial will due to high humidity and temperature.</li><li>◆ Due to high temperature and high</li></ul>



			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"> <li>◆ The nursery site should be dry and free from water stagnation as well as high moisture in the soil.</li> <li>◆ To protect from heavy rain the nursery should be in semi protected area.</li> </ul>
Sikkim Mandarin	Planting/fruiting		<ul style="list-style-type: none"> <li>◆ 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.</li> </ul>
<b>Animal Sciences and livestock management</b>			
Cattle			<ul style="list-style-type: none"> <li>◆ Provide plenty of cold clean drinking water to your livestock at the time between 01 to 3 pm during the peak summer months.</li> <li>◆ Maintain hygienic condition of animal shed and disinfect the animal shed with 10% formalin solution.</li> </ul>
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> <li>◆ Provide proper ventilation to poultry birds to prevent from heat stress during summer months</li> <li>◆ Periodic supplementation of vitamins and minerals to your livestock is very much essential during hot weather.</li> <li>◆ Special care should be taken for mite and Gastro Intestinal tape worm in case of poultry during the hot and humid summer months.</li> <li>◆ Take preventive measures against <b>Coccidiosis</b> of poultry during summer months.</li> </ul>
Pig	All stages	Swine fever	<ul style="list-style-type: none"> <li>◆ Provide creep area (separate enclosure, where the piglets have access but the sow does not) with heat source (200 watt bulb) to reduce piglet mortality due to cold weather.</li> </ul>

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

<b>Name</b>	<b>Designation</b>	<b>Department</b>
<b><i>Dr. R. K. Avasthe</i></b>	<b>Joint Director</b>	<b>Soil Science</b>
<i>Dr. Raghavendra Singh</i>	Senior scientist and Head (I/C)	Agronomy
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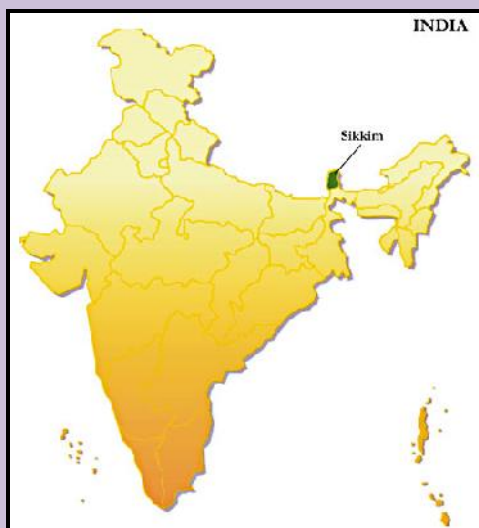
# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF SOUTH SIKKIM

**PERIOD:**

**23<sup>rd</sup> OCTOBER to 27<sup>th</sup> OCTOBER' 2019**



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



**ISSUED ON 22<sup>nd</sup> October 2019**

## **Meteorological Sub-division of Sikkim**

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- 2) East District with HQ at Gangtok
- 3) West District with HQ at Gyalshing
- 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	23/10/2019	24/10/2019	25/10/2019	26/10/2019	27/10/2019
Rainfall (mm)	No rain	No rain	Light rain	Light rain	No rain
Max Temp ( $^{\circ}\text{C}$ )	24	24	22	20	21
Min Temp ( $^{\circ}\text{C}$ )	15	15	14	12	13
Sky condition	Partially clear	Partially clear	Generally cloudy	Cloudy	Generally cloudy
Max RH (%)	80	85	91	93	90
Min RH (%)	72	72	74	80	74
Wind Speed (Kmph)	006	005	004	004	005
Wind Direction (deg)	NE	E	SE	SE	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)	( $^{\circ}\text{C}$ )	( $^{\circ}\text{C}$ )
19/10/2019			
20/10/2019			
21/10/2019			

### **Weather forecast valid up to 27<sup>th</sup> October 2019**

- There will be no rainfall
- Max temp may be varying from 20-24 $^{\circ}\text{C}$ , whereas, Min temp may vary from 12-15 $^{\circ}\text{C}$
- Sky will remain generally cloudy.
- Max RH is likely to be 80-93 %, whereas, Min RH may vary from 72-80 %
- Wind speed may likely vary from 4-6 km/hr.
- Wind direction may blow from northeasterly direction
- Weekly cumulative rainfall= 16 mm

## AGRO-METEREOLOGICAL ADVISORIES


### General Advisories for all the crops/ livestock

- ➡ If there is a probability of light rainfall, farmers are advised to keep drainage facilities on their field and harvest all the matured crops.
- ➡ During high humidity and cloudy weather there may be infestation of insect pest, so the farmers are suggested to apply neem oil.
- ➡ Bunds to be provide to reduce nutrient lost due to high rainfall.
- ➡ Rain water harvesting through *jalkund* should be done to conserve excess rain water during high rainfall.
- ➡ Excess water stagnation may cause fungal and bacterial diseases to the crops.
- ➡ While selecting site for construction of 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
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Tillering		<ul style="list-style-type: none"><li>◆ Maintain 5 cm of water in the paddy field.</li><li>◆ First weeding should be completed at 30-35 days after transplanting.</li></ul>
Black gram (Pahelo dal) /Rjmash/Cowpe a	Vegetative		<ul style="list-style-type: none"><li>◆ Farmers are advised to provide proper drainage in the field to avoid wilting in high rainfall areas.</li><li>◆ First weeding should be completed after 25-30 days of sowing to avoid weed competition.</li></ul>
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none"><li>◆ Allow minimum entry to crop field to reduce disease infestation.</li><li>◆ Allow proper drainage to avoid stagnation of water in the field.</li><li>◆ Timely monitor the field to check the attack of bacterial wilt due to high humidity and temperature.</li></ul>
Red cherry pepper/Brinjal/ Toamto	Fruiting	Blight	<ul style="list-style-type: none"><li>◆ Allow proper drainage to remove excess rain water from the field.</li><li>◆ Timely monitor the field to check the attack of bacterial will due to high humidity and temperature.</li><li>◆ Due to high temperature and high</li></ul>

			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"> <li>◆ The nursery site should be dry and free from water stagnation as well as high moisture in the soil.</li> <li>◆ To protect from heavy rain the nursery should be in semi protected area.</li> </ul>
Sikkim Mandarin	Planting/fruiting		<ul style="list-style-type: none"> <li>◆ 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.</li> </ul>

### *Animal Sciences and livestock management*

Cattle			<ul style="list-style-type: none"> <li>◆ Provide plenty of cold clean drinking water to your livestock at the time between 01 to 3 pm during the peak summer months.</li> <li>◆ Maintain hygienic condition of animal shed and disinfect the animal shed with 10% formalin solution.</li> </ul>
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> <li>◆ Provide proper ventilation to poultry birds to prevent from heat stress during summer months</li> <li>◆ Periodic supplementation of vitamins and minerals to your livestock is very much essential during hot weather.</li> <li>◆ Special care should be taken for mite and Gastro Intestinal tape worm in case of poultry during the hot and humid summer months.</li> <li>◆ Take preventive measures against <b>Coccidiosis</b> of poultry during summer months.</li> </ul>
Pig	All stages	Swine fever	<ul style="list-style-type: none"> <li>◆ Provide creep area (separate enclosure, where the piglets have access but the sow does not) with heat source (200 watt bulb) to reduce piglet mortality due to cold weather.</li> </ul>

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

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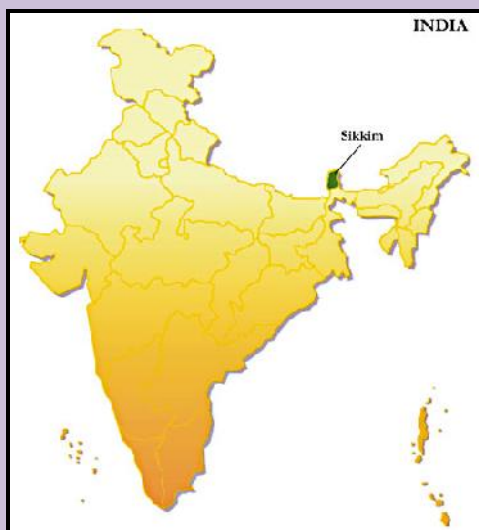


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF WEST SIKKIM

## PERIOD:

**23<sup>rd</sup> OCTOBER to 27<sup>th</sup> OCTOBER' 2019**

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



**ISSUED ON 22<sup>nd</sup> 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 WEST-DISTRICT for next five days

Parameter/Date	23/10/2019	24/10/2019	25/10/2019	26/10/2019	27/10/2019
Rainfall (mm)	NO rain	NO rain	Light rainfall	Light rainfall	NO rain
Max Temp ( $^{\circ}$ C)	23	23	21	19	20
Min Temp ( $^{\circ}$ C)	13	13	12	11	11
Sky condition	Partially cloudy	Generally cloudy	Light rainfall	Light rainfall	Light rainfall
Max RH (%)	84	88	92	93	90
Min RH (%)	76	76	80	85	75
Wind Speed (Kmph)	004	005	004	004	005
Wind Direction (deg)	NW	NW	W	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)	( $^{\circ}$ C)	( $^{\circ}$ C)
19/10/2019	N/A	25.2	11.7
20/10/2019	000	24.4	12.0
21/10/2019	000	23.5	13.1

### Weather forecast valid up to 27<sup>th</sup> October 2019


- Probability of no rainfall
- Max temp may be varying from 19-23 $^{\circ}$ C, whereas, Min temp may vary from 11-13 $^{\circ}$ C
- Sky will remain generally cloudy.
- Max RH is likely to be 85-92 %, whereas, Min RH may vary from 76-85 %
- Wind speed may likely vary from 4-5 km/hr.
- Wind direction may blow from northwesterly.
- Weekly cumulative rainfall= 14 mm

## AGRO-METEOROLOGICAL ADVISORIES

### General Advisories for all the crops/ livestock (English)

- ➡ If there is a probability of light rainfall, farmers are advised to keep drainage facilities on their field and harvest all the matured crops.
- ➡ During high humidity and cloudy weather there may be infestation of insect pest, so the farmers are suggested to apply neem oil.
- ➡ Bunds to be provide to reduce nutrient lost due to high rainfall.
- ➡ Rain water harvesting through *jalkund* should be done to conserve excess rain water during high rainfall.
- ➡ Excess water stagnation may cause fungal and bacterial diseases to the crops.
- ➡ While selecting site for construction of 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
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Tillering		<ul style="list-style-type: none"><li>◆ Maintain 5 cm of water in the paddy field.</li><li>◆ First weeding should be completed at 30-35 days after transplanting.</li></ul>
Black gram (Pahelo dal) /Rjmash/Cowpe a	Vegetative		<ul style="list-style-type: none"><li>◆ Farmers are advised to provide proper drainage in the field to avoid wilting in high rainfall areas.</li><li>◆ First weeding should be completed after 25-30 days of sowing to avoid weed competition.</li></ul>
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none"><li>◆ Allow minimum entry to crop field to reduce disease infestation.</li><li>◆ Allow proper drainage to avoid stagnation of water in the field.</li><li>◆ Timely monitor the field to check the attack of bacterial wilt due to high humidity and temperature.</li></ul>
Red cherry pepper/Brinjal/ Toamto	Fruiting	Blight	<ul style="list-style-type: none"><li>◆ Allow proper drainage to remove excess rain water from the field.</li><li>◆ Timely monitor the field to check the attack of bacterial will due to high humidity and temperature.</li><li>◆ Due to high temperature and high</li></ul>

			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"> <li>◆ The nursery site should be dry and free from water stagnation as well as high moisture in the soil.</li> <li>◆ To protect from heavy rain the nursery should be in semi protected area.</li> </ul>
Sikkim Mandarin	Planting/fruiting		<ul style="list-style-type: none"> <li>◆ 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.</li> </ul>
<b>Animal Sciences and livestock management</b>			
Cattle			<ul style="list-style-type: none"> <li>◆ Provide plenty of cold clean drinking water to your livestock at the time between 01 to 3 pm during the peak summer months.</li> <li>◆ Maintain hygienic condition of animal shed and disinfect the animal shed with 10% formalin solution.</li> </ul>
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> <li>◆ Provide proper ventilation to poultry birds to prevent from heat stress during summer months</li> <li>◆ Periodic supplementation of vitamins and minerals to your livestock is very much essential during hot weather.</li> <li>◆ Special care should be taken for mite and Gastro Intestinal tape worm in case of poultry during the hot and humid summer months.</li> <li>◆ Take preventive measures against <b>Coccidiosis</b> of poultry during summer months.</li> </ul>
Pig	All stages	Swine fever	<ul style="list-style-type: none"> <li>◆ Provide creep area (separate enclosure, where the piglets have access but the sow does not) with heat source (200 watt bulb) to reduce piglet mortality due to cold weather.</li> </ul>

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