

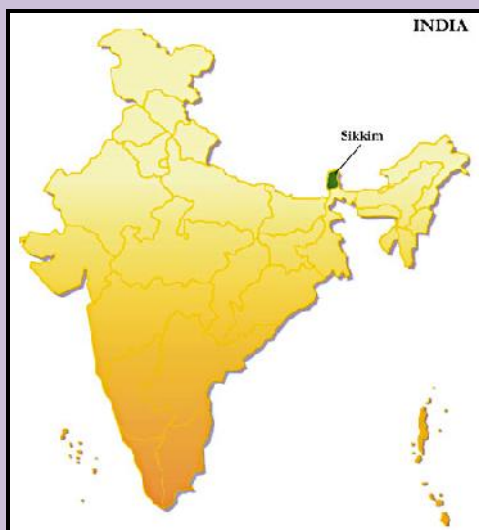


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF NORTH SIKKIM

## PERIOD:

**21<sup>st</sup> SEPTEMBER to 25<sup>th</sup> SEPTEMBER' 2019**

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



**ISSUED ON 20<sup>th</sup> September 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	21/09/2019	22/09/2019	23/09/2019	24/09/2019	25/09/2019
Rainfall (mm)	Light rainfall	Moderate rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp ( $^{\circ}\text{C}$ )	29	28	28	27	26
Min Temp ( $^{\circ}\text{C}$ )	19	18	18	18	18
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	91	93	91	92	94
Min RH (%)	81	83	81	83	84
Wind Speed (Kmph)	3	3	2	3	4
Wind Direction (deg)	SE	SE	S	NW	W

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)	( $^{\circ}\text{C}$ )	( $^{\circ}\text{C}$ )
17/9/2019	098	21.1	18.9
18/9/2019	028	22.9	18.8
19/9/2019	000	23.7	18.4

### Weather forecast valid up to 25<sup>th</sup> September 2019


- Probability of light rainfall
- Max temp may be varying from 26-29 $^{\circ}\text{C}$ , whereas, Min temp may vary from 18-19 $^{\circ}\text{C}$
- Sky will remain generally cloudy
- Max RH is likely to be 91-94 %, whereas, Min RH may vary from 81-84 %
- Wind speed may likely vary from 2-4 km/hr.
- Wind direction may blow from south easterly
- Weekly cumulative rainfall= 62 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
<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

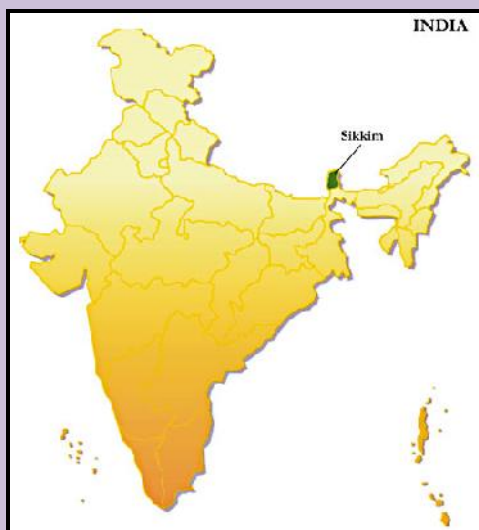


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF EAST SIKKIM

## PERIOD:

**21<sup>st</sup> SEPTEMBER to 25<sup>th</sup> SEPTEMBER' 2019**

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



**ISSUED ON 20<sup>th</sup> September 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	21/09/2019	22/09/2019	23/09/2019	24/09/2019	25/09/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp ( $^{\circ}\text{C}$ )	22	21	22	21	21
Min Temp ( $^{\circ}\text{C}$ )	16	16	17	16	16
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	91	93	90	92	94
Min RH (%)	81	80	80	82	83
Wind Speed (Kmph)	2	3	3	2	2
Wind Direction (deg)	NE	NE	NE	E	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)	( $^{\circ}\text{C}$ )	( $^{\circ}\text{C}$ )
17/9/2019	025	19.5	17.2
18/9/2019	008	19.4	16.7
19/9/2019	005	22.6	16.3

### **Weather forecast valid up to 25<sup>th</sup> September 2019**

- Probability of light rainfall
- Max temp may be varying from 21-22 $^{\circ}\text{C}$ , whereas, Min temp may vary from 16-17 $^{\circ}\text{C}$
- Sky will remain generally cloudy
- Max RH is likely to be 91-94 %, whereas, Min RH may vary from 80-83 %
- Wind speed may likely vary from 2-3 km/hr.
- Wind direction may blow from northeasterly
- Weekly cumulative rainfall=46 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
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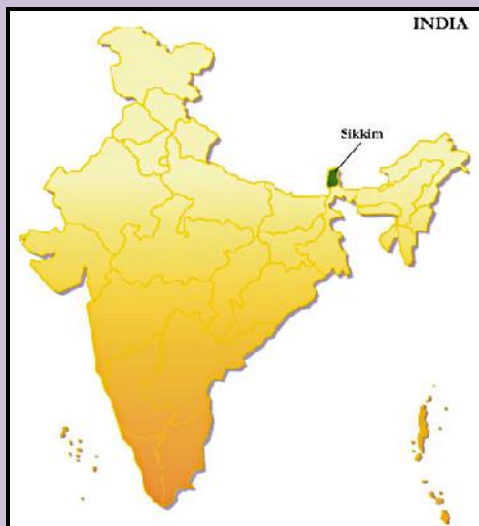
# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF SOUTH SIKKIM

**PERIOD:**

**21<sup>st</sup> SEPTEMBER to 25<sup>th</sup> SEPTEMBER' 2019**



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



**ISSUED ON 20<sup>th</sup> September 2019**

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

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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 SOUTH-DISTRICT for next five days**

Parameter/Date	21/09/2019	22/09/2019	23/09/2019	24/09/2019	25/09/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp ( $^{\circ}\text{C}$ )	27	25	26	25	24
Min Temp ( $^{\circ}\text{C}$ )	17	16	17	16	16
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	93	91	91	92
Min RH (%)	81	84	80	80	83
Wind Speed (Kmph)	004	003	002	002	003
Wind Direction (deg)	N	NE	NE	E	W

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)	( $^{\circ}\text{C}$ )	( $^{\circ}\text{C}$ )
17/9/2019	N/A	23.4	18.0
18/9/2019	N/A	23.3	17.7
19/9/2019	N/A	28.1	17.9

### **Weather forecast valid up to 25<sup>th</sup> September 2019**

- There will be chances of light rainfall
- Max temp may be varying from 24-27 $^{\circ}\text{C}$ , whereas, Min temp may vary from 16-17 $^{\circ}\text{C}$
- Sky will remain generally cloudy
- Max RH is likely to be 90-92%, whereas, Min RH may vary from 80-83 %
- Wind speed may likely vary from 2-3 km/hr.
- Wind direction may blow from northeasterly
- Weekly cumulative rainfall= 43 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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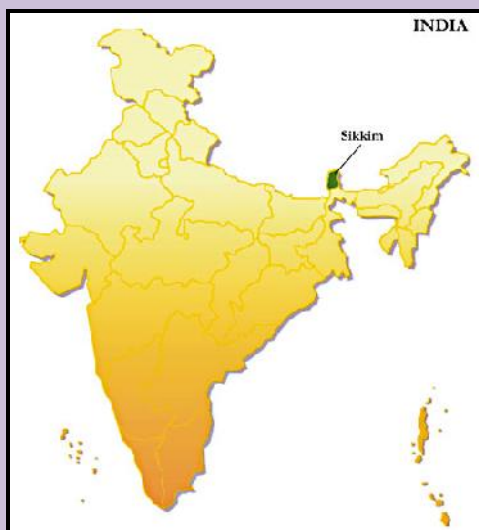


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF WEST SIKKIM

## PERIOD:

**21<sup>st</sup> SEPTEMBER to 25<sup>th</sup> SEPTEMBER' 2019**

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



**ISSUED ON 20<sup>th</sup> September 2019**

### Meteorological Sub-division of Sikkim

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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	21/09/2019	22/09/2019	23/09/2019	24/09/2019	25/09/2019
Rainfall (mm)	Light rainfall	Light rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp ( $^{\circ}\text{C}$ )	26	25	25	24	24
Min Temp ( $^{\circ}\text{C}$ )	16	16	16	16	16
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	91	90	92	92
Min RH (%)	80	83	80	82	84
Wind Speed (Kmph)	003	002	002	003	003
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)	( $^{\circ}\text{C}$ )	( $^{\circ}\text{C}$ )
17/9/2019	N/A	23.4	18.0
18/9/2019	N/A	23.3	17.7
19/9/2019	N/A	28.1	17.9

### Weather forecast valid up to 25<sup>th</sup> September 2019


- Probability of light rainfall
- Max temp may be varying from 24-26 $^{\circ}\text{C}$ , whereas, Min temp may vary from 0-16 $^{\circ}\text{C}$
- Sky will remain generally cloudy
- Max RH is likely to be 90-92%, whereas, Min RH may vary from 80-84 %
- Wind speed may likely vary from 2-3 km/hr.
- Wind direction may blow from northwesterly
- Weekly cumulative rainfall= 47mm

## 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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