

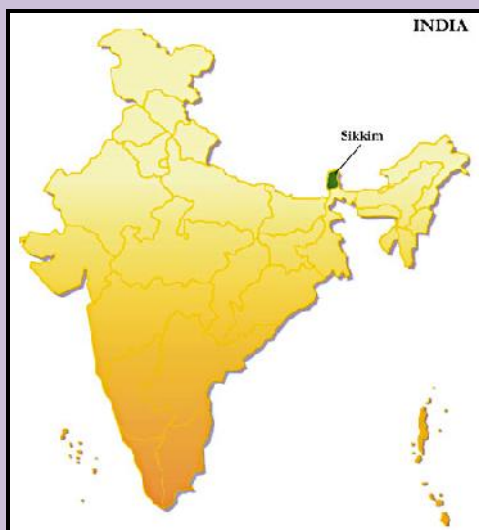


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF NORTH SIKKIM

PERIOD:

28th SEPTEMBER to 02nd OCTOBER' 2019

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



ISSUED ON 27th 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	28/09/2019	29/09/2019	30/09/2019	01/09/2019	02/09/2019
Rainfall (mm)	Moderate rainfall	Moderate rainfall	Moderate rainfall	Light rainfall	Light rainfall
Max Temp ($^{\circ}$ C)	27	24	22	24	26
Min Temp ($^{\circ}$ C)	18	18	17	18	18
Sky condition	Overcast	Overcast	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	92	93	94	91	91
Min RH (%)	82	85	86	82	82
Wind Speed (Kmph)	003	002	002	003	003
Wind Direction (deg)	E	SE	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)	($^{\circ}$ C)	($^{\circ}$ C)
24/9/2019	021	N/A	N/A
25/9/2019	015	27.1	N/A
26/9/2019	004	27.5	17.6

Weather forecast valid up to 2nd October 2019


- Probability of moderate rainfall.
- Max temp may be varying from 22-26 $^{\circ}$ C, whereas, Min temp may vary from 17-18 $^{\circ}$ C
- Sky will remain generally cloudy.
- Max RH is likely to be 91-94 %, whereas, Min RH may vary from 82-86 %
- Wind speed may likely vary from 3-4 km/hr.
- Wind direction may blow from south easterly direction.
- Weekly cumulative rainfall= 120 mm
- **HEAVY RAIN VERY LIKELY TO OCCUR ON SATURDAY.**

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
<i>Agricultural and Horticultural crops:</i>			
Rice	Tillering		<ul style="list-style-type: none">◆ Maintain 5 cm of water in the paddy field.◆ First weeding should be completed at 30-35 days after transplanting.
Black gram (Pahelo dal) /Rjmash/Cowpe a	Vegetative		<ul style="list-style-type: none">◆ Farmers are advised to provide proper drainage in the field to avoid wilting in high rainfall areas.◆ First weeding should be completed after 25-30 days of sowing to avoid weed competition.
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.
Animal Sciences and livestock management			
Cattle			<ul style="list-style-type: none"> ◆ Provide plenty of cold clean drinking water to your livestock at the time between 01 to 3 pm during the peak summer months. ◆ Maintain hygienic condition of animal shed and disinfect the animal shed with 10% formalin solution.
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> ◆ Provide proper ventilation to poultry birds to prevent from heat stress during summer months ◆ Periodic supplementation of vitamins and minerals to your livestock is very much essential during hot weather. ◆ Special care should be taken for mite and Gastro Intestinal tape worm in case of poultry during the hot and humid summer months. ◆ Take preventive measures against Coccidiosis of poultry during summer months.
Pig	All stages	Swine fever	<ul style="list-style-type: none"> ◆ 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.

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

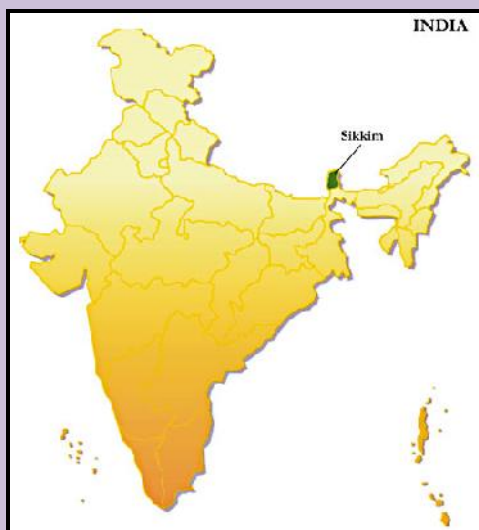


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF EAST SIKKIM

PERIOD:

28th SEPTEMBER to 02nd OCTOBER' 2019

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



ISSUED ON 27th September 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 EAST-DISTRICT for next five days

Parameter/Date	28/09/2019	29/09/2019	30/09/2019	01/09/2019	02/09/2019
Rainfall (mm)	Moderate rainfall	Moderate rainfall	Moderate rainfall	Light rainfall	Light rainfall
Max Temp (⁰ C)	20	19	19	21	21
Min Temp (⁰ C)	16	16	15	16	16
Sky condition	Overcast	Overcast	Overcast	Generally cloudy	Generally cloudy
Max RH (%)	93	95	94	92	91
Min RH (%)	83	87	87	83	81
Wind Speed (Kmph)	001	002	002	003	003
Wind Direction (deg)	S	NE	E	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
24/9/2019	007	19.2	15.7
25/9/2019	013	20.4	15.4
26/9/2019	056	19.5	15.8

Weather forecast valid up to 2nd October 2019

- Probability of moderate rainfall
- Max temp may be varying from 19-21°C, whereas, Min temp may vary from 15-16°C
- Sky will remain overcast
- Max RH is likely to be 91-94 %, whereas, Min RH may vary from 81-87 %
- Wind speed may likely vary from 1-3 km/hr.
- Wind direction may blow from northeasterly
- Weekly cumulative rainfall=81 mm
- **HEAVY RAIN LIKELY TO OCCUR ON FRIDAY AND HEAVY RAIN VERY LIKELY TO OCCUR ON SATURDAY**

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
<i>Agricultural and Horticultural crops:</i>			
Rice	Tillering		<ul style="list-style-type: none">◆ Maintain 5 cm of water in the paddy field.◆ First weeding should be completed at 30-35 days after transplanting.
Black gram (Pahelo dal) /Rjmash/Cowpe a	Vegetative		<ul style="list-style-type: none">◆ Farmers are advised to provide proper drainage in the field to avoid wilting in high rainfall areas.◆ First weeding should be completed after 25-30 days of sowing to avoid weed competition.
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.

Animal Sciences and livestock management

Cattle			<ul style="list-style-type: none"> ◆ Provide plenty of cold clean drinking water to your livestock at the time between 01 to 3 pm during the peak summer months. ◆ Maintain hygienic condition of animal shed and disinfect the animal shed with 10% formalin solution.
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> ◆ Provide proper ventilation to poultry birds to prevent from heat stress during summer months ◆ Periodic supplementation of vitamins and minerals to your livestock is very much essential during hot weather. ◆ Special care should be taken for mite and Gastro Intestinal tape worm in case of poultry during the hot and humid summer months. ◆ Take preventive measures against Coccidiosis of poultry during summer months.
Pig	All stages	Swine fever	<ul style="list-style-type: none"> ◆ 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.

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>Sh. Boniface Lepcha</i>	SMS	Horticulture
<i>Sh. Santanu Das</i>	SMS	Agril. Meteorology
<i>Miss Tirtha Kumari Chettri</i>	Met. Observer	Biochemistry



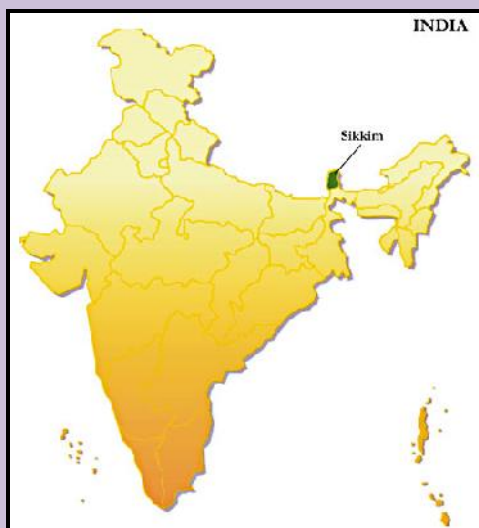
AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF SOUTH SIKKIM

PERIOD:

28th SEPTEMBER to 02nd OCTOBER' 2019



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



ISSUED ON 27th September 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 SOUTH-DISTRICT for next five days

Parameter/Date	28/09/2019	29/09/2019	30/09/2019	01/09/2019	02/09/2019
Rainfall (mm)	Light rainfall	Moderate rainfall	Light rainfall	Light rainfall	Light rainfall
Max Temp ($^{\circ}\text{C}$)	25	24	24	26	26
Min Temp ($^{\circ}\text{C}$)	18	17	17	17	18
Sky condition	Generally cloudy	Cloudy	Generally cloudy	Generally cloudy	Partially clear
Max RH (%)	92	93	93	90	90
Min RH (%)	82	83	84	80	80
Wind Speed (Kmph)	003	003	002	002	003
Wind Direction (deg)	S	N	NE	N	N

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)	($^{\circ}\text{C}$)	($^{\circ}\text{C}$)
24/9/2019	N/A	24.0	17.3
25/9/2019	N/A	22.1	17.3
26/9/2019	N/A	23.5	17.2

Weather forecast valid up to 2nd October 2019

- There will be chances of moderate rainfall
- Max temp may be varying from 24-26 $^{\circ}\text{C}$, whereas, Min temp may vary from 17-18 $^{\circ}\text{C}$
- Sky will remain generally cloudy
- Max RH is likely to be 90-93 %, whereas, Min RH may vary from 80-84 %
- Wind speed may likely vary from 2-3 km/hr.
- Wind direction may blow from north direction
- Weekly cumulative rainfall= 59 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
<i>Agricultural and Horticultural crops:</i>			
Rice	Tillering		<ul style="list-style-type: none">◆ Maintain 5 cm of water in the paddy field.◆ First weeding should be completed at 30-35 days after transplanting.
Black gram (Pahelo dal) /Rjmash/Cowpe a	Vegetative		<ul style="list-style-type: none">◆ Farmers are advised to provide proper drainage in the field to avoid wilting in high rainfall areas.◆ First weeding should be completed after 25-30 days of sowing to avoid weed competition.
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.

Animal Sciences and livestock management

Cattle			<ul style="list-style-type: none"> ◆ Provide plenty of cold clean drinking water to your livestock at the time between 01 to 3 pm during the peak summer months. ◆ Maintain hygienic condition of animal shed and disinfect the animal shed with 10% formalin solution.
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> ◆ Provide proper ventilation to poultry birds to prevent from heat stress during summer months ◆ Periodic supplementation of vitamins and minerals to your livestock is very much essential during hot weather. ◆ Special care should be taken for mite and Gastro Intestinal tape worm in case of poultry during the hot and humid summer months. ◆ Take preventive measures against Coccidiosis of poultry during summer months.
Pig	All stages	Swine fever	<ul style="list-style-type: none"> ◆ 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.

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

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<i>Sh. Boniface Lepcha</i>	SMS	Horticulture
<i>Sh. Santanu Das</i>	SMS	Agril. Meteorology
<i>Miss Tirtha Kumari Chettri</i>	Met. Observer	Biochemistry

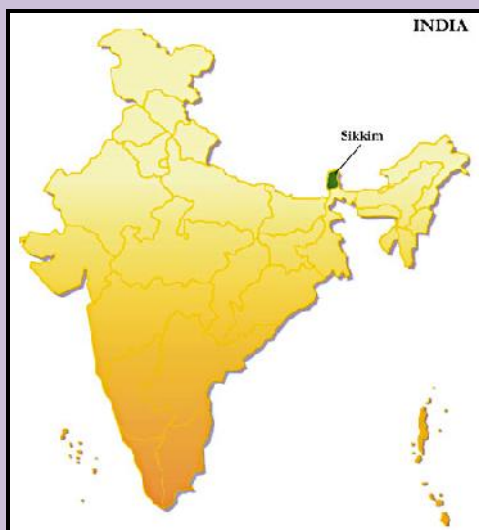


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF WEST SIKKIM

PERIOD:

28th SEPTEMBER to 02nd OCTOBER' 2019

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



ISSUED ON 27th September 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 WEST-DISTRICT for next five days

Parameter/Date	28/09/2019	29/09/2019	30/09/2019	01/09/2019	02/09/2019
Rainfall (mm)	Light rainfall	Moderate rainfall	Moderate rainfall	Light rainfall	Light rainfall
Max Temp ($^{\circ}\text{C}$)	23	22	21	24	25
Min Temp ($^{\circ}\text{C}$)	17	16	16	17	17
Sky condition	Cloudy	Cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	92	94	93	92	91
Min RH (%)	84	86	85	82	82
Wind Speed (Kmph)	003	002	002	003	003
Wind Direction (deg)	S	N	N	N	N

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)	($^{\circ}\text{C}$)	($^{\circ}\text{C}$)
24/9/2019	008	22.2	16.2
25/9/2019	009	21.4	16.8
26/9/2019	004	23.9	15.2

Weather forecast valid up to 2nd October 2019


- Probability of moderate rainfall
- Max temp may be varying from 22-25 $^{\circ}\text{C}$, 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 82-86 %
- Wind speed may likely vary from 2-3 km/hr.
- Wind direction may blow from northerly
- Weekly cumulative rainfall= 59 mm
- **HEAVY RAIN LIKELY TO OCCUR ON FRIDAY AND HEAVY RAIN VERY LIKELY TO OCCUR ON SATURDAY.**

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
<i>Agricultural and Horticultural crops:</i>			
Rice	Tillering		<ul style="list-style-type: none">◆ Maintain 5 cm of water in the paddy field.◆ First weeding should be completed at 30-35 days after transplanting.
Black gram (Pahelo dal) /Rjmash/Cowpe a	Vegetative		<ul style="list-style-type: none">◆ Farmers are advised to provide proper drainage in the field to avoid wilting in high rainfall areas.◆ First weeding should be completed after 25-30 days of sowing to avoid weed competition.
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.
Animal Sciences and livestock management			
Cattle			<ul style="list-style-type: none"> ◆ Provide plenty of cold clean drinking water to your livestock at the time between 01 to 3 pm during the peak summer months. ◆ Maintain hygienic condition of animal shed and disinfect the animal shed with 10% formalin solution.
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> ◆ Provide proper ventilation to poultry birds to prevent from heat stress during summer months ◆ Periodic supplementation of vitamins and minerals to your livestock is very much essential during hot weather. ◆ Special care should be taken for mite and Gastro Intestinal tape worm in case of poultry during the hot and humid summer months. ◆ Take preventive measures against Coccidiosis of poultry during summer months.
Pig	All stages	Swine fever	<ul style="list-style-type: none"> ◆ 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.

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