

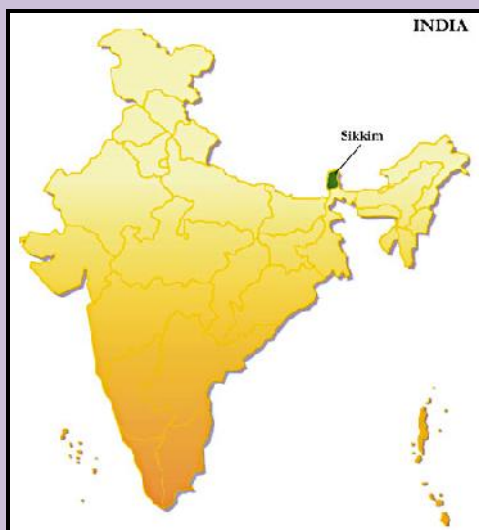


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF NORTH SIKKIM

PERIOD:

16th OCTOBER to 20th OCTOBER' 2019

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



ISSUED ON 15th 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	16/10/2019	17/10/2019	18/10/2019	19/10/2019	20/10/2019
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp ($^{\circ}\text{C}$)	24	25	24	24	24
Min Temp ($^{\circ}\text{C}$)	16	15	15	16	16
Sky condition	Clear sky	Clear sky	Clear sky	Partially clear	Partially clear
Max RH (%)	75	85	88	86	85
Min RH (%)	35	31	34	38	34
Wind Speed (Kmph)	009	008	009	008	008
Wind Direction (deg)	SE	S	SE	SE	SE

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

Weather for preceding week			
Date	Rainfall	Max. Temp	Min. Temp
	(mm)	($^{\circ}\text{C}$)	($^{\circ}\text{C}$)
12/10/2019	000	24.8	16.9
13/10/2019	000	26.3	15.5
14/10/2019	000	26.1	15.6

Weather forecast valid up to 20th October 2019


- There is no probability of rain.
- Max temp may be varying from 24-25 $^{\circ}\text{C}$, whereas, Min temp may vary from 15-16 $^{\circ}\text{C}$
- Sky will remain clear.
- Max RH is likely to be 75-85 %, whereas, Min RH may vary from 31-38 %
- Wind speed may likely vary from 8-9 km/hr.
- Wind direction may blow from southeasterly direction.
- Weekly cumulative rainfall= 000.0 mm

AGRO-METEOREOLOGICAL 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

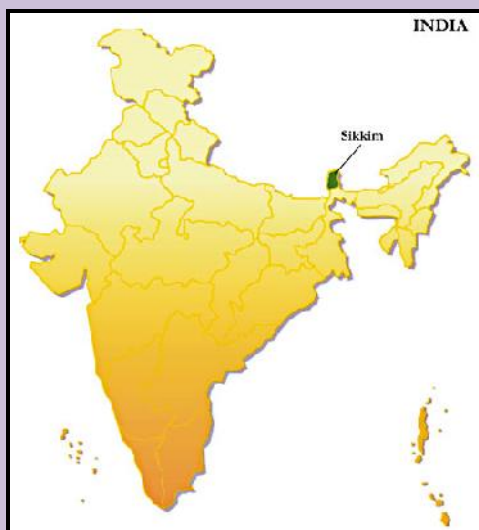


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF EAST SIKKIM

PERIOD:

16th OCTOBER to 20th OCTOBER' 2019

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



ISSUED ON 15th October 2019

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

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

Value Added forecast for EAST-DISTRICT for next five days

Parameter/Date	16/10/2019	17/10/2019	18/10/2019	19/10/2019	20/10/2019
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp (°C)	25	25	24	24	24
Min Temp (°C)	16	16	16	17	16
Sky condition	Partially clear	Clear sky	Clear sky	Partially clear	Partially clear
Max RH (%)	75	85	91	92	94
Min RH (%)	34	41	52	52	52
Wind Speed (Kmph)	010	008	008	007	007
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
12/10/2019	002	19.2	14.5
13/10/2019	Trace	21.1	14.3
14/10/2019	000	20.8	13.5

Weather forecast valid up to 20th October 2019

- There is no chances of rainfall in coming days
- Max temp may be varying from 24-25 °C, whereas, Min temp may vary from 16-17 °C
- Sky will remain clear sky
- Max RH is likely to be 75-94 %, whereas, Min RH may vary from 34-52 %
- Wind speed may likely vary from 7-10 km/hr.
- Wind direction may blow from northeasterly
- Weekly cumulative rainfall= 000.0 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

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
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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



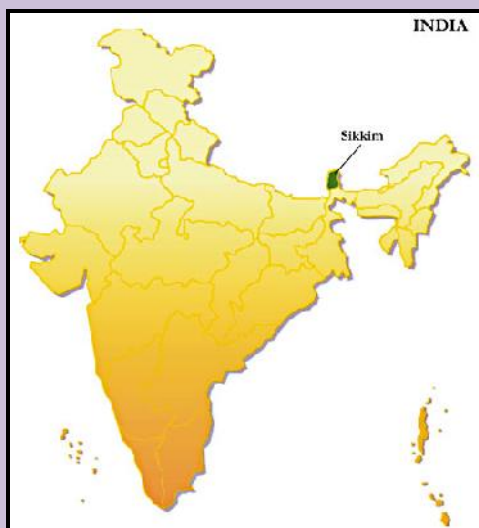
AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF SOUTH SIKKIM

PERIOD:

16th OCTOBER to 20th OCTOBER' 2019



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



ISSUED ON 15th October 2019

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- 4) South District with HQ at Namchi

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

Value Added forecast for SOUTH-DISTRICT for next five days

Parameter/Date	16/10/2019	17/10/2019	18/10/2019	19/10/2019	20/10/2019
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp (°C)	25	24	23	23	24
Min Temp (°C)	16	16	16	17	16
Sky condition	Partially clear	Clear sky	Clear sky	Partially clear	Partially clear
Max RH (%)	64	75	85	85	88
Min RH (%)	24	29	37	38	37
Wind Speed (Kmph)	008	007	006	006	006
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)
12/10/2019	N/A	23.5	15.5
13/10/2019	N/A	24.8	15.2
14/10/2019	N/A	25.6	14.3

Weather forecast valid up to 20th October 2019

- There will be no rainfall
- Max temp may be varying from 23-25°C, whereas, Min temp may vary from 16-17°C
- Sky will remain clear
- Max RH is likely to be 64-88 %, whereas, Min RH may vary from 24-38 %
- Wind speed may likely vary from 6-8 km/hr.
- Wind direction may blow from northerly direction
- Weekly cumulative rainfall= 000.0 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>Dr. R. K. Avasthe</i>	Joint Director	Soil Science
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<i>Sh. Santanu Das</i>	SMS	Agril. Meteorology
<i>Miss Tirtha Kumari Chettri</i>	Met. Observer	Biochemistry

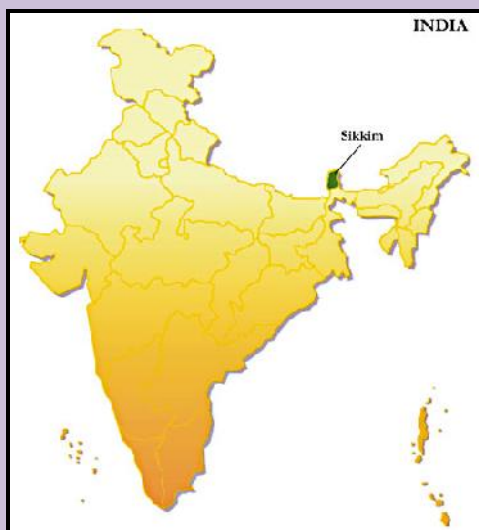


AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF WEST SIKKIM

PERIOD:

16th OCTOBER to 20th OCTOBER' 2019

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



ISSUED ON 15th 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	16/10/2019	17/10/2019	18/10/2019	19/10/2019	20/10/2019
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp (°C)	24	24	23	24	24
Min Temp (°C)	16	15	16	16	16
Sky condition	Clear sky	Clear sky	Clear sky	Partially clear	Partially clear
Max RH (%)	87	92	94	93	93
Min RH (%)	33	38	43	38	34
Wind Speed (Kmph)	011	010	009	009	009
Wind Direction (deg)	NW	NW	NW	NW	NW

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

Weather for preceding week			
Date	Rainfall	Max. Temp	Min. Temp
	(mm)	(°C)	(°C)
12/10/2019	N/A	22.1	14.3
13/10/2019	N/A	23.4	13.7
14/10/2019	N/A	24.4	13.4

Weather forecast valid up to 20th October 2019


- Probability of no rainfall
- Max temp may be varying from 23-24°C, whereas, Min temp may vary from 15-16°C
- Sky will remain clear sky.
- Max RH is likely to be 87-94 %, whereas, Min RH may vary from 33-38 %
- Wind speed may likely vary from 9-11 km/hr.
- Wind direction may blow from northwesterly.
- Weekly cumulative rainfall= 000.0 mm

AGRO-METEOREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock (English)

- ➡ 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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