

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA**  
(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Anjaw**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Hawai: Latitude: 28.2179994/ Longitude: 94.7277528/Altitude: 1296 m amsl

Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
No weather summary available	<b>Generally clear/dry weather forecasted.</b> Daily maximum and minimum temperature for the following period is predicted to be 21-22°C and 09-10°C respectively. Expected morning and evening relative humidity will be 73-78% and 21-31% respectively. Wind direction is mainly variable and a speed range of 5-6 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

- Spraying operation should be done only on dry/clear weather**
- Obtain seeds from reputed/certified/reliable source**
- Use fertilizers/pesticides as per recommended doses for the location**
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides**
- Warning: Spraying of DDT in crops is lethal**

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Pea	Vegetative	Cut-worm	<ul style="list-style-type: none"> <li>Regular monitoring of crop against attack of cutworm is advised,</li> </ul>
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> <li>In case of rain delay harvesting</li> </ul>
Black Gram & Green Gram	Vegetative	Powdery mildew	<ul style="list-style-type: none"> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none"> <li>Ridge should be properly made,</li> <li>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</li> <li>Foliar spray of Dithane <a href="#">M-45@2.5g/litre</a> of water for management of potato late blight.</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> </ul>
Peach	Post-harvesting		<ul style="list-style-type: none"> <li>Training &amp; pruning of diseased/criss-cross branches to harvest more solar energy &amp; for proper growth.</li> </ul>
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Pineapple	Harvesting/ Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>After winter harvest, collection/Selection of suckers &amp; slip to be done for next season planting.</li> </ul>
<b>LIVESTOCKS</b>			
Livestock	Stage	Disease	Precautionary Practices to be followed
Poultry	All stages		<ul style="list-style-type: none"> <li>Day old chick-Maintain warmth by lighting,</li> <li>In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li> <li>Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>Application of quick lime is highly recommended in order to rectify water pH.</li> <li>Application of fish feed (mustard oil cake) is essential for achieving higher yield</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</li> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>Deworm with anti helmentic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li><b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>Heavy mortality in cloven footed animals has been reported.</li> <li>Supportive treatment of infected animals under supervision of veterinary department officials,</li> <li>Avoid mixing of infected and healthy animals,</li> <li>Keep infected animals separated from the healthy ones,</li> <li>Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li> <li>Provide feed supplements</li> </ul>

Mithun		FMD	<ul style="list-style-type: none"><li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided from vaccination.</li></ul>
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department  
Contact: - [IAAS.BASAR@gmail.com](mailto:IAAS.BASAR@gmail.com), Phone Number: - 03795-226247/37, -96 (Fax)

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA**  
(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Changlang**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Changlang (HQ): Latitude: 27.1305856/Longitude: 95.7342373/Altitude: 580 masl

Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall = Changlang: 0.0 mm Miao: 0.0 mm	<b>Generally clear/dry weather forecasted.</b> Daily maximum and minimum temperature for the following period is predicted to be 25-27°C and 13-15°C respectively. Expected morning and evening relative humidity will be 75-78% and 19-33% respectively. Wind direction is mainly E & ESE with speed range of 5-6 kmph.
<b>Warning</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

- Spraying operation should be done only on dry/clear weather
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> <li>In case of rain delay harvesting</li> </ul>
Pea	Vegetative	Cut-worm	<ul style="list-style-type: none"> <li>Regular monitoring of crop against attack of cutworm is advised,</li> <li>Spray neem-based insecticides against leaf eating insects</li> </ul>
Black Gram & Green Gram	Vegetative	Powdery mildew	<ul style="list-style-type: none"> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing.</li> <li>Use locally available traps to control rats menace.</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li>Ridge should be properly made,</li> <li><b>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</b></li> </ul>
Tomato	Fruiting		<ul style="list-style-type: none"> <li>Removing side shoots is an important job which prevents the fruits being shaded by leaves.</li> <li>Provide shed to protect from frost</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> <li>One sword sucker may be allowed after shooting (Flowering),</li> <li>Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,</li> <li>Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.</li> </ul>
Guava	Harvisting	Fruit fly	<ul style="list-style-type: none"> <li>Harvest with care and store in dry places</li> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects</li> </ul>
Large Cardamom	Fruiting	Chirkey Disease	<ul style="list-style-type: none"> <li><b>Remove dry/diseased/old tillers &amp; branches &amp; spray Bio NPK@ 2ml/lit water for proper growth.</b></li> </ul>
Ginger/Turmeric	Vegetative		<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended to retain soil moisture</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> <li>Provide sugar syrup</li> </ul>
<b>LIVESTOCKS</b>			
Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b>			
<ul style="list-style-type: none"> <li><b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> <li><b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li> </ul>			
Goat	All stages		<ul style="list-style-type: none"> <li>Deworming for gastrointestinal parasite</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</li> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> </ul>

		mouth and foot.) Swine Fever	<ul style="list-style-type: none"><li>• Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li><li>• <b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li></ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"><li>• Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li><li>• Heavy mortality in cloven footed animals has been reported.</li><li>• Supportive treatment of infected animals under supervision of veterinary department officials,</li><li>• Avoid mixing of infected and healthy animals,</li><li>• Keep infected animals separated from the healthy ones,</li><li>• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li><li>• Provide feed supplements</li></ul>
Poultry	All stages		<ul style="list-style-type: none"><li>• Day old chick-Maintain warmth by lighting,</li><li>• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li><li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li></ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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Contact: - [IAAS.BASAR@gmail.com](mailto:IAAS.BASAR@gmail.com), Phone Number: - 03795-226247/37, -96 (Fax)

Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Dibang Valley**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Anini: Latitude: 28.2179994/Longitude: 94.7277528/Altitude: 1968 masl

Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall = 1.0 mm (Anini)	<b>Generally clear/dry weather forecasted.</b> Daily maximum and minimum temperature for the following period is predicted to be 18-19°C and 09-11°C respectively. Expected morning and evening relative humidity will be 74-84% and 16-31% respectively. Wind direction is mainly S with speed range of 6-7 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### General recommendations

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- Go for spray operation only on dry/clear weather.
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> <li>In case of rain delay harvesting</li> </ul>
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>Provide irrigation to plants</li> <li>Mulching with locally available materials like straw/dray grass to retain soil moisture</li> <li>Spray neem-based pesticides against leaf eating insects</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
VEGETABLES			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li><b>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</b></li> <li><b>Use neem-based insecticides against cut-worm</b></li> </ul>
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> <li><b><u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u></b></li> <li><b><u>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</u></b></li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
HORTICULTURAL CROPS			
Peach	Post-harvesting		<ul style="list-style-type: none"> <li>Training &amp; pruning of diseased/criss-cross branches to harvest more solar energy &amp; for proper growth.</li> </ul>
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> <li>One sword sucker may be allowed after shooting (Flowering),</li> <li>Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,</li> <li>Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate</li> </ul>
Kiwi	Harvesting		<ul style="list-style-type: none"> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Large Cardamom	Fruiting	Chirkey Disease	<ul style="list-style-type: none"> <li><b>Remove dry/diseased/old tillers &amp; branches &amp; spray Bio NPK@ 2ml/lit water for proper growth.</b></li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lit of water to protect against soil borne disease and insect.</li> </ul>
Honey Bees			
Honey bees			<ul style="list-style-type: none"> <li>Cover the boxes with locally available dry grass or straw to provide warmth</li> </ul>
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General			

<ul style="list-style-type: none"> <li>• <b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> <li>• <b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li> </ul>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>• Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</li> <li>• Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>• Deworm with anti helmentic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li>• <b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>• Heavy mortality in cloven footed animals has been reported.</li> <li>• Supportive treatment of infected animals under supervision of veterinary department officials,</li> <li>• Avoid mixing of infected and healthy animals,</li> <li>• Keep infected animals separated from the healthy ones,</li> <li>• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li> <li>• Provide feed supplements</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>• Day old chick-Maintain warmth by lighting,</li> <li>• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li> <li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>• Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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Agrometeorological Field Unit  
ICAR, BASAR

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## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA**

(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: East Kameng**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall = 0.0 mm	Generally clear/dry weather forecasted. Daily maximum and minimum temperature for the following period is predicted to be 24-25°C and 12-13°C respectively. Expected morning and evening relative humidity will be 81-84% and 29-42% respectively. Expected wind direction is mainly SSE with speed range of 5 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"> <li><b>Moderate to dense fog likely to occur at isolated places</b></li> </ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing
- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> <li>In case of rain delay harvesting</li> </ul>
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing</li> <li>Provide irrigation to plants</li> <li>Complete sowing by 1<sup>st</sup> fortnight of Nov. for better yield</li> </ul>
Soybean	Harvesting		<ul style="list-style-type: none"> <li>Immediately harvest soybean &amp; thoroughly dry in sun.</li> </ul>
Pulses	Vegetative		<ul style="list-style-type: none"> <li>irrigation and weeding advocated</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none"> <li>Ridge should be properly made,</li> <li>Red Ants: - Drenching with Chlorpyrifos @ 2 ml per litre of water,</li> <li>Foliar spray of Dithane <a href="#">M-45@2.5g/litre</a> of water for management of potato late blight.</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> </ul>
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Remove diseased part &amp; keep inflorescence clean.</li> <li>Uproot &amp; burn virus infected plants</li> </ul>
Pineapple	Active vegetative		<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Remove excess suckers to increase fruit size and improve quality.</li> </ul>
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Proper drainage to be done and avoid water stagnation</li> <li>Earthing up of ginger/turmeric along with basal application of required fertilizer should be done</li> </ul>
Orchards			<ul style="list-style-type: none"> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>LIVESTOCKS</b>			
Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b>			
<ul style="list-style-type: none"> <li><b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> <li><b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li> </ul>			
Pigs	All stages	FMD (high fever and appearance	<ul style="list-style-type: none"> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> </ul>

		of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"><li>Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li></ul> <b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b>
Poultry	All stages		<ul style="list-style-type: none"><li>Day old chick-Maintain warmth by lighting,</li><li>In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li><li>Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li></ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"><li>Heavy mortality in cloven footed animals has been reported.</li><li>Supportive treatment of infected animals under supervision of veterinary department officials,</li><li>Avoid mixing of infected and healthy animals,</li><li>Keep infected animals separated from the healthy ones,</li><li>Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li><li>Provide feed supplements</li></ul>
Fishery			<ul style="list-style-type: none"><li>Application of quick lime is highly recommended in order to rectify water pH.</li><li>Application of fish feed (mustard oil cake) is essential for achieving higher yield</li></ul>
Mithun		FMD	<ul style="list-style-type: none"><li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li><li>Pregnant animals above 7 months of pregnancy should be avoided.</li></ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department  
Contact: - [IAAS.BASAR@gmail.com](mailto:IAAS.BASAR@gmail.com), Phone Number: - 03795-226247/37, -96 (Fax)

Agrometeorological Field Unit  
ICAR. BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA**  
(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: East Siang**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Pasighat: Latitude: 28.0700/Longitude: 95.3300/Altitude: 153 masl

Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall: 0.6 mm; T. Max: 28.0°C; T. Min: 17.0°C ; RH: 68-89%	<b>Generally clear/dry weather forecasted.</b> Daily maximum and minimum temperature for the following period is predicted to be 26-27°C and 15-16°C respectively. Expected morning and evening relative humidity will be 71-74% and 24-57% respectively. Expected wind direction is mainly S with speed range of 3-6 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> <li>In case of rain delay harvesting</li> </ul>
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>Provide irrigation to plants</li> <li>Mulching with locally available materials like straw/dray grass to retain soil moisture</li> <li>Spray neem-based pesticides against leaf eating insects</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
VEGETABLES			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li><b>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</b></li> <li><b>Use neem-based insecticides against cut-worm</b></li> </ul>
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> <li><u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u></li> <li><u>To manage the disease, provide adequate drainage and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/ neem cake.</u></li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
HORTICULTURAL CROPS			
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> <li>One sword sucker may be allowed after shooting (Flowering),</li> <li>Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,</li> <li>Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate</li> </ul>
Kiwi	Harvesting		<ul style="list-style-type: none"> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.</li> </ul>
Ginger/Turmeric	Vegetative		<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Earthing up of ginger/turmeric along with basal application of required fertilizer should be done</li> </ul>
Honey Bees			
Honey bees			<ul style="list-style-type: none"> <li>Cover the boxes with locally available dry grass or straw to provide warmth</li> </ul>
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General			
<ul style="list-style-type: none"> <li><b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> </ul>			

• <b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>• Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</li> <li>• Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>• Deworm with anti helmentic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li>• <b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>• Heavy mortality in cloven footed animals has been reported.</li> <li>• Supportive treatment of infected animals under supervision of veterinary department officials,</li> <li>• Avoid mixing of infected and healthy animals,</li> <li>• Keep infected animals separated from the healthy ones,</li> <li>• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li> <li>• Provide feed supplements</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>• Day old chick-Maintain warmth by lighting,</li> <li>• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li> <li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>• Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Kurung Kumey**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Koloriang: Latitude: 27.9167°/Longitude: 93.3500°/Altitude: 1040 masl

Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Past weather summary not available	<b>Generally clear dry weather forecasted.</b> Daily maximum and minimum temperature for the following period is predicted to be 18-19°C and 09-11°C respectively. Expected morning and evening relative humidity will be 74-84% and 16-31% respectively. Wind direction is mainly S with wind speed range of 6-7 kmph.
Warning	<b>Moderate to dense fog likely to occur at isolated places</b>

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

- Spray operations should be done only on dry/clear weather or in extreme case use stickers
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing
- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> </ul>
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
Jhum rice	Harvesting		<ul style="list-style-type: none"> <li>Immediate harvesting of left-over rice advocated</li> <li>Proper sun drying before storage.</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none"> <li>Ridge should be properly made,</li> <li>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</li> <li>Foliar spray of Dithane <a href="#">M-45@2.5g/litre</a> of water for management of potato late blight.</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Peach	Post-harvesting		<ul style="list-style-type: none"> <li>Training &amp; pruning of diseased/criss-cross branches to harvest more solar energy &amp; for proper growth.</li> </ul>
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> </ul>
Kiwi	Harvesting		<ul style="list-style-type: none"> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.</li> </ul>
Large Cardamom	Fruiting	Chirkey Disease	<ul style="list-style-type: none"> <li><b>Remove dry/diseased/old tillers &amp; branches &amp; spray Bio NPK@ 2ml/lit water for proper growth.</b></li> </ul>
Ginger/Turmeric	Vegetative		<ul style="list-style-type: none"> <li>Proper drainage to be done and avoid water stagnation</li> <li>Earthing up of ginger/turmeric along with basal application of required fertilizer should be done</li> </ul>
<b>Honey Bees</b>			
			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
<b>LIVESTOCKS</b>			
<b>General</b>			
<ul style="list-style-type: none"> <li><b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> <li><b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li> </ul>			
Livestock	Stage	Disease	Precautionary Practices to be followed
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li><b>Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</b></li> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li><b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>Heavy mortality in cloven footed animals has been reported.</li> </ul>

			<ul style="list-style-type: none"><li>• Supportive treatment of infected animals under supervision of veterinary department officials,</li><li>• Avoid mixing of infected and healthy animals,</li><li>• Keep infected animals separated from the healthy ones,</li><li>• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li><li>• Provide feed supplements</li></ul>
Poultry	All stages		<ul style="list-style-type: none"><li>• Day old chick-Maintain warmth by lighting,</li><li>• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li><li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li></ul>
Mithun		FMD	<ul style="list-style-type: none"><li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li><li>• Pregnant animals above 7 months of pregnancy should be avoided.</li></ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA**  
(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Lohit**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall = 0.0 mm	Mostly sunny to partly cloudy with no rainfall. Daily maximum and minimum temperature for the following period is predicted to be 24-25°C and 12-13°C respectively. Expected morning and evening relative humidity will be 81-84% and 27-42% respectively. Wind direction is mainly S with speed range of 5 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

- Spraying operation should be done only on dry/clear weather
- Go for low cost poly-houses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> <li>In case of rain delay harvesting</li> </ul>
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>Provide irrigation to plants</li> <li>Mulching with locally available materials like straw/dray grass to retain soil moisture</li> <li>Spray neem-based pesticides against leaf eating insects</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
<b>VEGETABLES</b>			
Potato	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li><b>Red Ants: - Drenching with Chlorpyrifos @ 2 ml per litre of water,</b></li> <li><b>Use neem-based insecticides against cut-worm</b></li> </ul>
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> <li><b><u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u></b></li> <li><b><u>To manage the disease, provide adequate drainage and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/ neem cake.</u></b></li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Large Cardamom	Fruiting	Chirkey Disease	<ul style="list-style-type: none"> <li><b>Remove dry/diseased/old tillers &amp; branches &amp; spray Bio NPK@ 2ml/lit water for proper growth.</b></li> </ul>
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> <li>One sword sucker may be allowed after shooting (Flowering),</li> <li>Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,</li> <li>Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate</li> </ul>
Kiwi	Harvesting		<ul style="list-style-type: none"> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyrifos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.</li> </ul>
Ginger/Turmeric	Vegetative		<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Earthing up of ginger/turmeric along with basal application of required fertilizer should be done</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Cover the boxes with locally available dry grass or straw to provide warmth</li> </ul>
<b>LIVESTOCKS</b>			

Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b> <ul style="list-style-type: none"> <li>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</li> <li>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</li> </ul>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</li> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li><b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>Heavy mortality in cloven footed animals has been reported.</li> <li>Supportive treatment of infected animals under supervision of veterinary department officials,</li> <li>Avoid mixing of infected and healthy animals,</li> <li>Keep infected animals separated from the healthy ones,</li> <li>Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li> <li>Provide feed supplements</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Day old chick-Maintain warmth by lighting,</li> <li>In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li> <li>Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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 Contact: - [IAAS.BASAR@gmail.com](mailto:IAAS.BASAR@gmail.com), Phone Number: - 03795-226247/37, -96 (Fax)

Agrometeorological Field Unit  
 ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

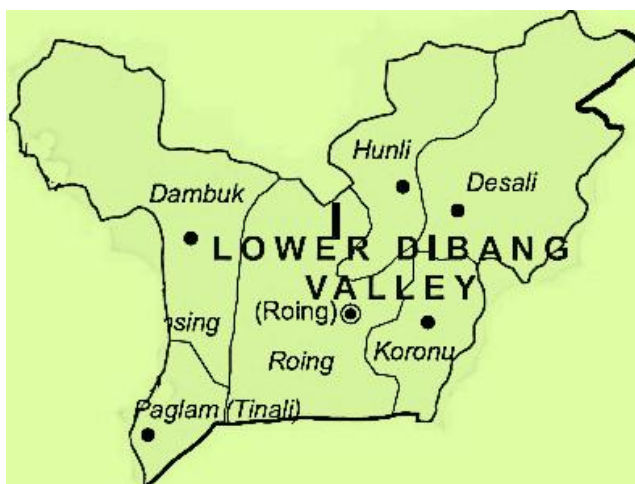


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Lower Dibang Valley**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall = 3.8 mm (Roing)	Mostly sunny with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 23-24°C and 12-14°C respectively. Expected morning and evening relative humidity will be 72-84% and 21-40% respectively. Wind direction is variable with speed range of 6 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- Spraying operation should be done only on dry/clear weather
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> </ul>
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Vegetative	Leaf-eating insects	<ul style="list-style-type: none"> <li>Provide irrigation to plants</li> <li><b>Spray neem-based insecticides against leaf eating insects</b></li> </ul>
Soybean	Harvesting		<ul style="list-style-type: none"> <li>Harvest soybean &amp; thoroughly dry in sun.</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
<b>VEGETABLES</b>			
Potato	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li><b>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</b></li> <li><b>Spray neem-based insecticides against cut-worm</b></li> </ul>
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Large Cardamom	Fruiting	Chirkey Disease	<ul style="list-style-type: none"> <li><b>Remove dry/diseased/old tillers &amp; branches &amp; spray Bio NPK @ 2ml/lit water for proper growth.</b></li> </ul>
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Banana	Multiple stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> <li>One sword sucker may be allowed after shooting (Flowering),</li> <li>Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,</li> <li>Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.</li> </ul>
Orchards			<ul style="list-style-type: none"> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
<b>LIVESTOCKS</b>			
Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b>			
<ul style="list-style-type: none"> <li><b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> <li><b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li> </ul>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight<b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>

Poultry	All stages		<ul style="list-style-type: none"><li>• Day old chick-Maintain warmth by lighting,</li><li>• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultry shed during night,</li><li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li></ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"><li>• Heavy mortality in cloven footed animals has been reported.</li><li>• Supportive treatment of infected animals under supervision of veterinary department officials,</li><li>• Avoid mixing of infected and healthy animals,</li><li>• Keep infected animals separated from the healthy ones,</li><li>• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li><li>• Provide feed supplements</li></ul>
Goat	All stages		<ul style="list-style-type: none"><li>• Deworming for gastrointestinal parasite</li></ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department  
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Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Lower Subansiri**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall = NA	<b>Mostly sunny to partly cloudy with no possibility of rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 24-25°C and 12-13°C respectively. Expected morning and evening relative humidity will be 81-84% and 27-42% respectively. Wind direction is mainly S with speed range of 5 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- Spraying operation should be done only on dry/clear weather
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Pea	Sowing		<ul style="list-style-type: none"> <li>Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing</li> <li>Provide irrigation to plants</li> <li>Complete sowing by 1<sup>st</sup> fortnight of Nov. for better yield</li> </ul>
Soybean	Harvesting		<ul style="list-style-type: none"> <li>Immediately harvest soybean &amp; thoroughly dry in sun.</li> </ul>
Rice	Maturity/ Harvesting	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> <li><b>harvest the mature crop</b></li> <li><b>proper sun-drying before storag</b></li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
Pulses	Vegetative	Blister beetle	<ul style="list-style-type: none"> <li>irrigation and weeding advocated</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none"> <li>Ridge should be properly made,</li> <li>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</li> <li>Foliar spray of Dithane <a href="#">M-45@2.5g/litre</a> of water for management of potato late blight.</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Peach	Post-harvesting		<ul style="list-style-type: none"> <li>Training &amp; pruning of diseased/criss-cross branches to harvest more solar energy &amp; for proper growth.</li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> </ul>
Kiwi	Harvesting		<ul style="list-style-type: none"> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lit of water to protect against soil borne disease and insect.</li> </ul>
Guava	Fruit Development	Fruit fly	<ul style="list-style-type: none"> <li>Basin cleaning and manuring</li> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects</li> </ul>
Large Cardamom	Fruiting	Chirkey Disease	<ul style="list-style-type: none"> <li><b>Remove dry/diseased/old tillers &amp; branches &amp; spray Bio NPK@ 2ml/lit water for proper growth.</b></li> </ul>
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Proper drainage to be done and avoid water stagnation</li> <li></li> </ul>
Orchards			<ul style="list-style-type: none"> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>

LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b> <ul style="list-style-type: none"><li>• Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</li><li>• Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</li></ul>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"><li>• Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</li><li>• Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li><li>• Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li><li>• <b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li></ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"><li>• Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li><li>• Heavy mortality in cloven footed animals has been reported.</li><li>• Supportive treatment of infected animals under supervision of veterinary department officials,</li><li>• Avoid mixing of infected and healthy animals,</li><li>• Keep infected animals separated from the healthy ones,</li><li>• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li><li>• Provide feed supplements</li></ul>
Poultry	All stages		<ul style="list-style-type: none"><li>• Day old chick-Maintain warmth by lighting,</li><li>• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li><li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li></ul>
Mithun		FMD	<ul style="list-style-type: none"><li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li><li>• Pregnant animals above 7 months of pregnancy should be avoided.</li></ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA**  
(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Papum Pare**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall: 0.0 mm; T. Max: 30.0°C; T. Min: 16.0°C ; RH: 66-91%	<b>Mostly sunny with no possibility of rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 15-16°C respectively. Expected morning and evening relative humidity will be 75-79% and 32-48% respectively. Expected wind direction mainly WNW & WSW with speed range of 5 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- Spraying operation should be done only on dry/clear weather
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Harvesting		<ul style="list-style-type: none"><li>• Sun-dry &amp; properly winnow the grains for safe storage.</li></ul>
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"><li>• Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li></ul>
Pea	Vegetative	Leaf-eating insects	<ul style="list-style-type: none"><li>• Provide irrigation to plants</li><li>• Spray neem-based insecticides against leaf eating insects</li></ul>
Soybean	Harvesting		<ul style="list-style-type: none"><li>• Immediately harvest soybean &amp; thoroughly dry in sun.</li></ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"><li>• Harvest mature cobs and dry properly before storing</li><li>• Use locally available traps to control rats menace</li></ul>
VEGETABLES			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"><li>• Light irrigation is essential,</li><li>• In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li><li>• Spray with neem based pesticides against aphids</li></ul>
Potato	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"><li>• <b>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</b></li><li>• <b>Spray neem-based insecticides against cut-worm</b></li></ul>
HORTICULTURAL CROPS			
Large Cardamom	Fruiting	Chirkey Disease	<ul style="list-style-type: none"><li>• <b>Remove dry/diseased/old tillers &amp; branches &amp; spray Bio NPK@ 2ml/lit water for proper growth.</b></li></ul>
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"><li>• Harvest the mature fruit with stalk and store in dry places.</li><li>• <b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li><li>• <b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li><li>• <b>Breakdown the soil collected around the tree trunk</b></li></ul>
Banana	Multiple stages	Sigatoka Leaf spot	<ul style="list-style-type: none"><li>• One sword sucker may be allowed after shooting (Flowering),</li><li>• Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,</li><li>• Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate</li></ul>
Pineapple	Sowing		<ul style="list-style-type: none"><li>• Clean the vicinity of plants by weeding and loosen up the soil.</li><li>• Remove sly and use it as a new planting material.</li><li>• Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lit of water to protect against soil borne disease and insect.</li></ul>
Orchards			<ul style="list-style-type: none"><li>• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li><li>• Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li></ul>
Honey Bees			
Honey bees			<ul style="list-style-type: none"><li>• Box must be covered with straw/dry leaves to provide warmth</li></ul>
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General			
<ul style="list-style-type: none"><li>• <b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li><li>• <b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li></ul>			
Goat	All stages		<ul style="list-style-type: none"><li>• Deworming for gastrointestinal parasite</li></ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"><li>• Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li><li>• Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight<b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li></ul>
Poultry	All stages		<ul style="list-style-type: none"><li>• Day old chick-Maintain warmth by lighting,</li></ul>

			<ul style="list-style-type: none"><li>• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultry shed during night,</li><li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li></ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"><li>• Heavy mortality in cloven footed animals has been reported.</li><li>• Supportive treatment of infected animals under supervision of veterinary department officials,</li><li>• Avoid mixing of infected and healthy animals,</li><li>• Keep infected animals separated from the healthy ones,</li><li>• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li><li>• Provide feed supplements</li></ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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**Agrometeorological Field Unit  
ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Tawang**

No: 100/2017/Fri

Dated: 15<sup>th</sup> December, 2017



Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall = 0.0 mm	Sunny with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 09-10°C and 03-04°C respectively. Expected morning and evening relative humidity will be 50-54% and 11-20% respectively. Wind direction is variable with probable speed range of 4-6 kmph.
Warning:	<ul style="list-style-type: none"><li>Moderate to dense fog likely to occur at isolated places</li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- All spraying operation should be done only on dry/clear weather
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants	<ul style="list-style-type: none"> <li><b>Red Ants: - Drenching with Chlorpyrifos @ 2 ml per litre of water,</b></li> </ul>
<b>HORTICULTURAL CROPS</b>			
Peach	Post-harvesting		<ul style="list-style-type: none"> <li>Training &amp; pruning of diseased/criss-cross branches to harvest more solar energy &amp; for proper growth.</li> </ul>
Banana	Multiple stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> <li><b>Cover the mature bunches with gunny bags to protect from cold and frost.</b></li> <li>One sword sucker may be allowed after shooting (Flowering),</li> <li>Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,</li> </ul>
Kiwi	Harvesting		<ul style="list-style-type: none"> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Apple	Post-harvesting		<ul style="list-style-type: none"> <li>Pruning of dead and diseased branches advocated</li> <li>Apply Bordeaux paste after pruning</li> </ul>
Orchards			<ul style="list-style-type: none"> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Provide sugar syrup near the box</li> <li>Cover the boxes with locally available dry grass to provide warmth.</li> </ul>
<b>LIVESTOCKS</b>			
Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b> <ul style="list-style-type: none"> <li><b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> <li><b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li> </ul>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</li> <li>Close all the ventilation in the house and cover with locally available dry straw/grass</li> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li><b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>Heavy mortality in cloven footed animals has been reported.</li> <li>Supportive treatment of infected animals under supervision of veterinary department officials,</li> <li>Avoid mixing of infected and healthy animals,</li> <li>Keep infected animals separated from the healthy ones,</li> <li>Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li> <li>Provide feed supplements</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Day old chick-Maintain warmth by lighting,</li> <li>In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during</li> </ul>

			night, <ul style="list-style-type: none"><li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li></ul>
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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Contact: - [IAAS.BASAR@gmail.com](mailto:IAAS.BASAR@gmail.com), Phone Number: - 03795-226247/37, -96 (Fax)

Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Tirap**

No: 100/2017/Fri

Dated: 15<sup>th</sup> December, 2017



Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall = 0.0 mm	Mostly sunny with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 25-27°C and 13-14°C respectively. Expected morning and evening relative humidity will be 75-78% and 19-33% respectively. Wind direction is mainly ESE & E with speed range of 5-6 kmph.
Warning:	<ul style="list-style-type: none"><li>Moderate to dense fog likely to occur at isolated places</li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated.
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> <li>In case of rain delay harvesting</li> </ul>
Pea	Vegetative	Cut-worm	<ul style="list-style-type: none"> <li>Regular monitoring of crop against attack of cutworm is advised,</li> <li>Spray neem-based insecticides against leaf eating insects</li> </ul>
Black Gram & Green Gram	Vegetative	Powdery mildew	<ul style="list-style-type: none"> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing.</li> <li>Use locally available traps to control rats menace.</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li>Ridge should be properly made,</li> <li><b>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</b></li> </ul>
Tomato	Fruiting		<ul style="list-style-type: none"> <li>Removing side shoots is an important job which prevents the fruits being shaded by leaves.</li> <li>Provide shed to protect from frost</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> <li>One sword sucker may be allowed after shooting (Flowering),</li> <li>Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,</li> <li>Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.</li> </ul>
Guava	Harvisting	Fruit fly	<ul style="list-style-type: none"> <li>Harvest with care and store in dry places</li> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects</li> </ul>
Large Cardamom	Fruiting	Chirkey Disease	<ul style="list-style-type: none"> <li><b>Remove dry/diseased/old tillers &amp; branches &amp; spray Bio NPK@ 2ml/lit water for proper growth.</b></li> </ul>
Ginger/Turmeric	Vegetative		<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended to retain soil moisture</li> </ul>
<b>Honey Bees</b>			
			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
<b>LIVESTOCKS</b>			
Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b>			
<ul style="list-style-type: none"> <li><b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> <li><b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li> </ul>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li><b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>

Poultry	All stages		<ul style="list-style-type: none"><li>• Day old chick-Maintain warmth by lighting,</li><li>• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li><li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li></ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"><li>• Heavy mortality in cloven footed animals has been reported.</li><li>• Supportive treatment of infected animals under supervision of veterinary department officials,</li><li>• Avoid mixing of infected and healthy animals,</li><li>• Keep infected animals separated from the healthy ones,</li><li>• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li><li>• Provide feed supplements</li></ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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**Agrometeorological Field Unit**  
**ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Upper Siang**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall = 0.0 mm	<b>Mostly sunny with no possibility of rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 21-22°C and 09-10°C respectively. Expected morning and evening relative humidity will be 73-78% and 21-31% respectively. Wind direction is variable with speed range of 5-6 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

- Disinfecting the animal/bird sheds with lime powder/bleaching powder/4%NaOH at regular interval is advocated
- Spraying operation should be done only on dry/clear weather
- Go for low cost poly-houses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> <li>In case of rain delay harvesting</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
VEGETABLES			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none"> <li>Ridge should be properly made,</li> <li>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</li> <li>Foliar spray of Dithane <a href="#">M-45@2.5g/litre</a> of water for management of potato late blight.</li> </ul>
HORTICULTURAL CROPS			
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> </ul>
Peach	Post-harvesting		<ul style="list-style-type: none"> <li>Training &amp; pruning of diseased/criss-cross branches to harvest more solar energy &amp; for proper growth.</li> </ul>
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Kiwi	Harvesting		<ul style="list-style-type: none"> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.</li> </ul>
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> <li>Proper drainage to be done and avoid water stagnation</li> <li>Earthing up of ginger/turmeric along with basal application of required fertilizer should be done</li> </ul>
Honey Bees			
Honey bees			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> <li>Provide sugar syrup</li> </ul>
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General			
<ul style="list-style-type: none"> <li>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</li> <li>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</li> </ul>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</li> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li><b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>Heavy mortality in cloven footed animals has been reported.</li> <li>Supportive treatment of infected animals under supervision of veterinary department officials,</li> <li>Avoid mixing of infected and healthy animals,</li> <li>Keep infected animals separated from the healthy ones,</li> </ul>

			<ul style="list-style-type: none"><li>• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li><li>• Provide feed supplements</li></ul>
Fishery			<ul style="list-style-type: none"><li>• Application of quick lime is highly recommended in order to rectify water pH.</li><li>• Application of fish feed (mustard oil cake) is essential for achieving higher yield</li></ul>
Poultry	All stages		<ul style="list-style-type: none"><li>• Day old chick-Maintain warmth by lighting,</li><li>• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li><li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li></ul>
Mithun		FMD	<ul style="list-style-type: none"><li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li><li>• Pregnant animals above 7 months of pregnancy should be avoided.</li></ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA**  
(Integrated Agro-Meteorological Advisory Services)

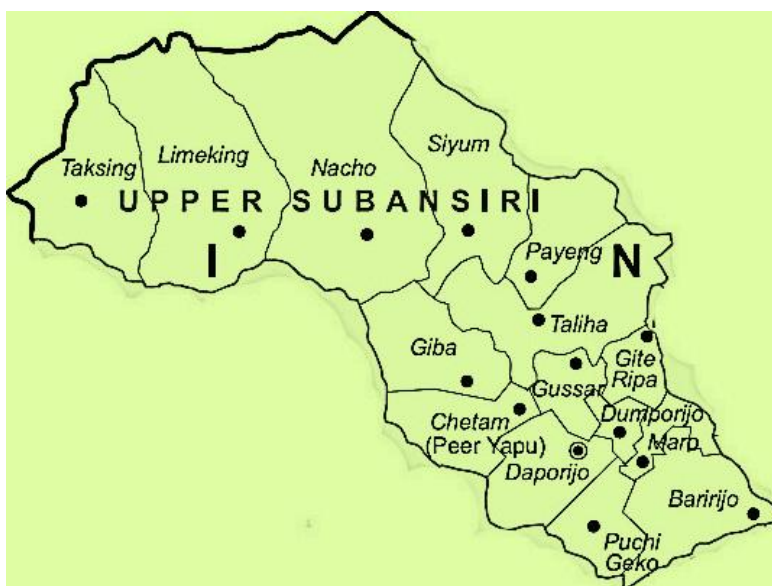


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Upper Subansiri**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Daporijo: 6.0 mm	Mostly sunny with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 24-25°C and 12-13°C respectively. Expected morning and evening relative humidity will be 81-84% and 27-42% respectively. Expected wind direction is mainly S with speed range of 5 kmph.
<b>Warning</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- Avoid spray of insecticides during flowering stage as it may hinder pollination by honey bees and other insects.
- Spraying operation should be done only on dry/clear weather
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing</li> <li>Provide irrigation to plants</li> <li>Complete sowing by 1<sup>st</sup> fortnight of Nov. for better yield</li> </ul>
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Soybean	Harvesting		<ul style="list-style-type: none"> <li>Immediately harvest soybean &amp; thoroughly dry in sun.</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none"> <li>Ridge should be properly made,</li> <li>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</li> <li>Foliar spray of Dithane <a href="#">M-45@2.5g/litre</a> of water for management of potato late blight.</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Large Cardamom	Fruiting	Chirkey Disease	<ul style="list-style-type: none"> <li><b>Remove dry/diseased/old tillers &amp; branches &amp; spray Bio NPK @ 2ml/lit water for proper growth.</b></li> </ul>
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> </ul>
Kiwi	Vegetative		<ul style="list-style-type: none"> <li>Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.</li> </ul>
Orchards			<ul style="list-style-type: none"> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Provide sugar syrup near the box</li> <li>Add insulation and ventilation systems</li> </ul>
<b>LIVESTOCKS</b>			
Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b>			
<ul style="list-style-type: none"> <li><b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> <li><b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li> </ul>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</li> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li><b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>Heavy mortality in cloven footed animals has been reported.</li> <li>Supportive treatment of infected animals under supervision of veterinary department officials,</li> <li>Avoid mixing of infected and healthy animals,</li> </ul>

			<ul style="list-style-type: none"><li>• Keep infected animals separated from the healthy ones,</li><li>• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li><li>• Provide feed supplements</li></ul>
Poultry	All stages		<ul style="list-style-type: none"><li>• Day old chick-Maintain warmth by lighting,</li><li>• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li><li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li></ul>
Mithun		FMD	<ul style="list-style-type: none"><li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li><li>• Pregnant animals above 7 months of pregnancy should be avoided.</li></ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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Agrometeorological Field Unit  
ICAR. BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA**  
(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: West Kameng**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
Rainfall = Bomdila: 0.0 ; Bhalukpong: 0.0 mm	Mostly sunny with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 18-19°C and 09-11°C respectively. Expected morning and evening relative humidity will be 74-84% and 16-31% respectively. Wind direction variable NNW with speed range of 6-7 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- Spraying operation should be done only on dry/clear weather
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
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FIELD CROPS			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> <li>In case of rain delay harvesting</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
Pea	Vegetative		<ul style="list-style-type: none"> <li>Provide irrigation to plants</li> <li>Weeding advocated</li> </ul>
VEGETABLES			
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none"> <li>Ridge should be properly made,</li> <li>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</li> <li>Foliar spray of Dithane <a href="#">M-45@2.5g/litre</a> of water for management of potato late blight.</li> </ul>
HORTICULTURAL CROPS			
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> </ul>
Kiwi	Harvesting		<ul style="list-style-type: none"> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lit of water to protect against soil borne disease and insect.</li> </ul>
Orchards			<ul style="list-style-type: none"> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
Apple	Vegetative	Wooly aphids	<ul style="list-style-type: none"> <li>Swab the stem with mineral oil against wooly aphid.</li> </ul>
Honey Bees			
Honey bees			<ul style="list-style-type: none"> <li>Provide sugar syrup near the box</li> <li>Add insulation and ventilation systems</li> </ul>
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b> <ul style="list-style-type: none"> <li><b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> <li><b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li> </ul>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</li> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li><b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>Heavy mortality in cloven footed animals has been reported.</li> <li>Supportive treatment of infected animals under supervision of veterinary department officials,</li> </ul>

			<ul style="list-style-type: none"><li>• Avoid mixing of infected and healthy animals,</li><li>• Keep infected animals separated from the healthy ones,</li><li>• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li><li>• Provide feed supplements</li></ul>
Poultry	All stages		<ul style="list-style-type: none"><li>• Day old chick-Maintain warmth by lighting,</li><li>• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,</li><li>• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.</li></ul>
Mithun		FMD	<ul style="list-style-type: none"><li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li><li>• Pregnant animals above 7 months of pregnancy should be avoided.</li></ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका Agro-met Advisory Bulletin

(Period: 16<sup>th</sup> to 19<sup>th</sup> December, 2017)

ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA**  
(Integrated Agro-Meteorological Advisory Services)



AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: West Siang**

**No: 100/2017/Fri**

**Dated: 15<sup>th</sup> December, 2017**



Basar: Latitude: 27°59.53/Longitude: 94.41.269/Altitude: 616 amsl

Weather summary of the previous week	Weather forecast valid up to 20 <sup>th</sup> Dec'2017
<b>Basar:</b> Rainfall = 5.8 mm. T. Max: 21.1°C, T. Min: 7.2°C, RH: 53-95%, Wind Speed: 3-5 kmph, Wind Direction: NW	<b>Mostly sunny with no possibility of rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 26-27°C and 13-14°C respectively. Expected morning and evening relative humidity will be 75-78% and 19-33% respectively. Wind direction is mainly ESE variable with speed range of 5-6 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li><b>Moderate to dense fog likely to occur at isolated places</b></li></ul>

## Weather Based Agro-meteorological Advisories Bulletin

### General Recommendations

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>Sun-dry &amp; properly winnow the grains for safe storage.</li> <li>In case of rain delay harvesting</li> </ul>
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>Provide irrigation to plants</li> <li>Mulching with locally available materials like straw/dray grass to retain soil moisture</li> <li>Spray neem-based pesticides against leaf eating insects</li> </ul>
Maize	Harvesting	Rat	<ul style="list-style-type: none"> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
<b>VEGETABLES</b>			
Potato	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li><b>Red Ants: - Drenching with Chlorpyrifos @ 2 ml per litre of water,</b></li> <li><b>Use neem-based insecticides against cut-worm</b></li> </ul>
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> <li>Light irrigation is essential,</li> <li>In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.</li> <li>Spray with neem based pesticides against aphids</li> </ul>
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> <li><b><u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u></b></li> <li><b><u>To manage the disease, provide adequate drainage and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/ neem cake.</u></b></li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Peach	Post-harvesting		<ul style="list-style-type: none"> <li>Training &amp; pruning of diseased/criss-cross branches to harvest more solar energy &amp; for proper growth.</li> </ul>
Large Cardamom	Fruiting	Chirkey Disease	<ul style="list-style-type: none"> <li><b>Remove dry/diseased/old tillers &amp; branches &amp; spray Bio NPK@ 2ml/lit water for proper growth.</b></li> </ul>
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>Harvest the mature fruit with stalk and store in dry places.</li> <li><b>Collect &amp; dispose rotten fallen fruits/ install fruit-fly traps</b></li> <li><b>Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.</b></li> <li><b>Breakdown the soil collected around the tree trunk</b></li> </ul>
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> <li>One sword sucker may be allowed after shooting (Flowering),</li> <li>Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,</li> <li>Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate</li> </ul>
Kiwi	Harvesting		<ul style="list-style-type: none"> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyrifos 20EC@ 2ml/lit of water to protect against soil borne disease and insect.</li> </ul>
Ginger/Turmeric	Vegetative		<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Earthing up of ginger/turmeric along with basal application of required fertilizer should be done</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Cover the boxes with locally available dry grass or straw to provide warmth</li> </ul>

LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b> <ul style="list-style-type: none"> <li>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</li> <li>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</li> </ul>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born piglets and lukewarm food &amp; water</li> <li>Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system</li> <li>Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li><b>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</b></li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>Heavy mortality in cloven footed animals has been reported.</li> <li>Supportive treatment of infected animals under supervision of veterinary department officials,</li> <li>Avoid mixing of infected and healthy animals,</li> <li>Keep infected animals separated from the healthy ones,</li> <li>Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)</li> <li>Provide feed supplements</li> </ul>
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Mithun		FMD	<ul style="list-style-type: none"> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
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