

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 2017)

ग्रामीण कृषि मौसम सेवा



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

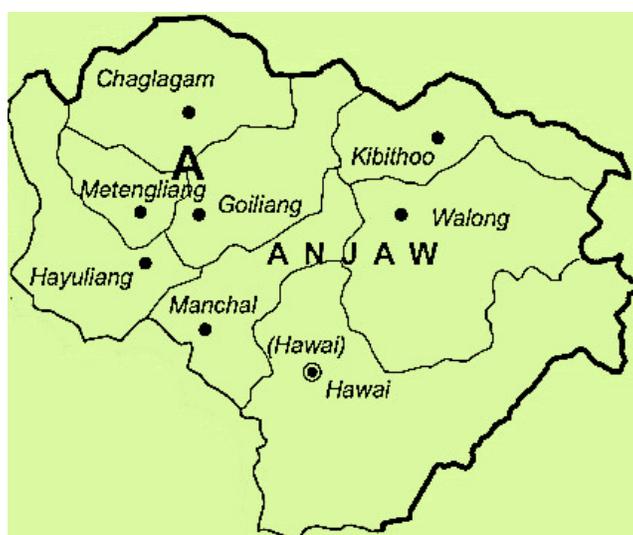


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Anjaw**

**No: 95/2017/Tue**

**Dated: 28<sup>th</sup> November, 2017**



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

Weather summary of the previous week	Weather forecast valid up to 3 <sup>rd</sup> Dec'2017
No weather summary available	<b>Partly cloudy with possibility of light/moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 16-17°C respectively. Expected morning and evening relative humidity will be 75-88% and 27-50% respectively. Wind direction is mainly SSE at a 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

- **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>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li><b>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</b></li> <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	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>Light inter-culture operations is advised,</li> <li>Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.</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>
<b>HORTICULTURAL CROPS</b>			
Guava	Ripening		<ul style="list-style-type: none"> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects.</li> </ul>
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li><b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</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 water</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>
<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 poultry shed 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 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> </ul>

			<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>
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>
<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)

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 2017)

ग्रामीण कृषि मौसम सेवा

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

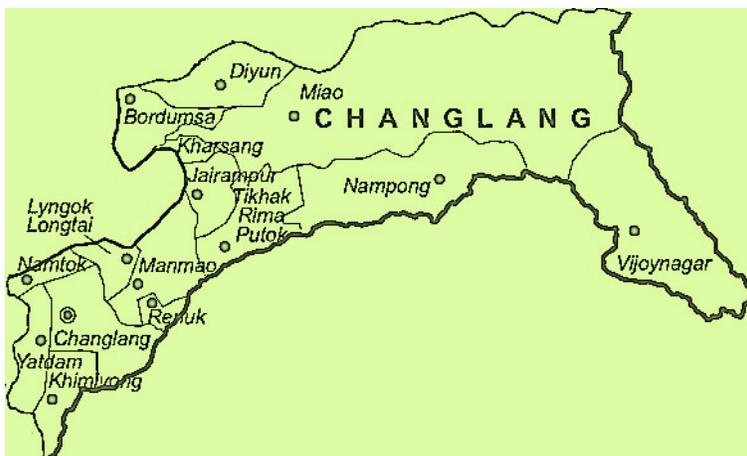


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Changlang**

No: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



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

Weather summary of the previous week	Weather forecast valid up to 2 <sup>nd</sup> Dec'2017
Rainfall = Changlang: 0.0 mm Miao: 0.0 mm (up to 24 <sup>th</sup> Nov)	<b>Generally clear/dry weather forecasted.</b> Daily maximum and minimum temperature for the following period is predicted to be 28°C and 14-15°C respectively. Expected morning and evening relative humidity will be 78-82% and 29-35% respectively. Wind direction is mainly ESE with speed range of 5-6 kmph.
<b>Warning</b>	<b>Moderate to dense fog likely to occur at isolated places</b>

### 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> </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	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <b>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</b></li> <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	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>• Light inter-culture operations is advised,</li> <li>• Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.</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 Chlorpyrifos @ 2 ml per litre of water,</b></li> </ul>
Tomato	Fruiting		<ul style="list-style-type: none"> <li>• Removing sideshoots is an important job which prevents the fruits being shaded by leaves.</li> <li>• Provide shed to protect from excessive rainfall</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>• Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>• <b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetyl AI paste.</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 + Chlorpyrifos 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	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>
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> <li>• Mulching with locally available materials like dry grass/paddy straw recommended</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)	<ul style="list-style-type: none"> <li>• Provide proper bedding materials especially to new-born</li> </ul>

		and appearance of mucous membrane of the mouth and foot.) Swine Fever	<p>piglets and lukewarm food &amp; water</p> <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 helminthic 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>

**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)

**Agrometeorological Field Unit  
ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 2017)

ग्रामीण कृषि मौसम सेवा



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

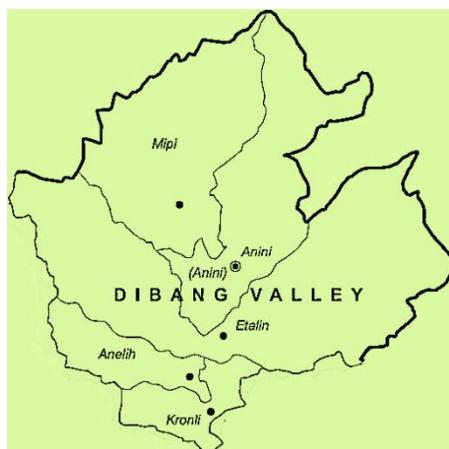


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Dibang Valley**

**No: 95/2017/Tue**

**Dated: 28<sup>th</sup> November, 2017**



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

Weather summary of the previous week	Weather forecast valid up to 3 <sup>rd</sup> Dec'2017
Rainfall = 10.0 mm (Anini) (up to 24 <sup>th</sup> Nov)	<b>Generally clear/dry weather forecasted with light rainfall in few isolated places.</b> Daily maximum and minimum temperature for the following period is predicted to be 22-23°C and 11-12°C respectively. Expected morning and evening relative humidity will be 78-88% and 27-61% respectively. Wind direction is mainly SSE & S with speed range of 7 kmph.
<b>Warning:</b>	<b>• Moderate to dense fog likely to occur at isolated places</b>

### 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
<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>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <li>• Harvest mature cobs and dry properly before storing</li> <li>• Use locally available traps to control rats menace</li> </ul>
Pulses	Flowering	Blister beetle	<ul style="list-style-type: none"> <li>• Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest</li> </ul>
<b>VEGETABLES</b>			
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li>• <b>Farmers are advised to prepare field for sowing of potato,</b></li> <li>• <b>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</b></li> <li>• <b>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</b></li> <li>• <b>Normal weight of potato-25-30 grams</b></li> <li>• <b>Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant</b></li> </ul>
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>• Transplanting of healthy seedlings may be done in well prepared field,</li> <li>• Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <li>• <b><u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u></b></li> <li>• Weeding of the standing crop may be done,</li> <li>• Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> <li>• Harvesting and marketing of tender okra fruits,</li> <li>• Collection and destruction of borer damaged pod,</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>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>• Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>• <b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or foseetyl AI paste.</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</li> </ul>

			and transported to the market in hard condition.
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	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>
Apple	Vegetative	Wooly aphids	<ul style="list-style-type: none"> <li>• Swab the stem with mineral oil against wooly aphid.</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>• In case of rain provide sugar syrup</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</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>			
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>
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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 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: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



Weather summary of the previous week	Weather forecast valid up to 2 <sup>nd</sup> Dec'2017
Rainfall = 0.0 mm (up to 24 <sup>th</sup> Nov)	Generally clear/dry weather forecasted with possibility light rainfall on 29 <sup>th</sup> Nov. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 11-12°C respectively. Expected morning and evening relative humidity will be 78-85% and 24-50% respectively. Expected wind direction is mainly SE 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

- 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>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> <li>• On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>• Do not disturb the soil structure by spading/hoeing in the field.</li> <li>• Hand weeding with care is recommended.</li> </ul>
Pulses	Flowering	Blister beetle	<ul style="list-style-type: none"> <li>• Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest</li> </ul>
<b>VEGETABLES</b>			
Rabi vegetables	Sowing/Transplanting		<ul style="list-style-type: none"> <li>• <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u></li> <li>• Weeding of the standing crop may be done,</li> <li>• Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/sowing	Red Ants/Cutworm	<ul style="list-style-type: none"> <li>• <b>Farmers are advised to prepare field for sowing of potato,</b></li> <li>• <b>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</b></li> <li>• <b>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</b></li> <li>• <b>Normal weight of potato-25-30 grams</b></li> <li>• <b>Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant</b></li> </ul>
<b>HORTICULTURAL CROPS</b>			
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>
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>• Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>• <b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosefly AI paste.</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	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>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</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>			
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 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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 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: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



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

Weather summary of the previous week	Weather forecast valid up to 2 <sup>nd</sup> Dec'2017
Rainfall: 0.0 mm; T. Max: 29.0°C; T. Min: 19.0°C ; RH: 55-86% (up to 24 <sup>th</sup> Nov)	<b>Generally clear/dry weather forecasted.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 16-17°C respectively. Expected morning and evening relative humidity will be 82-88% and 32-40% respectively. Expected wind direction is mainly S 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

- 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	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	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li><b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
Pulses	Flowering	Blister beetle	<ul style="list-style-type: none"> <li>Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest</li> </ul>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> <li>On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>Do not disturb the soil structure by spading/hoeing in the field.</li> <li>Hand weeding with care is recommended.</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>Light inter-culture operations is advised,</li> <li>Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.</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 Chlorpyrifos @ 2 ml per litre of water,</b></li> </ul>
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul style="list-style-type: none"> <li>On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids,</li> <li>On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass,</li> <li>Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.</li> </ul>
Tomato	Fruiting		<ul style="list-style-type: none"> <li>Removing sideshoots is an important job which prevents the fruits being shaded by leaves.</li> <li>As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.</li> </ul>
Ginger/turmeric	Vegetative stage	Soft Rot	<ul style="list-style-type: none"> <li>Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers</li> <li>For management of soft rot in ginger: Need based drenching of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li><b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or foseily AI paste.</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>

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	Flowering stage	Chirkey Disease (fungal infection) & 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>
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>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>On prolong rain, provide sugar syrup</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</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>			
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> <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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 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: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



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

Weather summary of the previous week	Weather forecast valid up to 2 <sup>nd</sup> Dec'2017
Past weather summary not available	Generally clear/ dry weather forecasted with very light rain on 29 <sup>th</sup> Nov. Daily maximum and minimum temperature for the following period is predicted to be 20-21°C and 8-10°C respectively. Expected morning and evening relative humidity will be 78-85% and 32-65% respectively. Wind direction is mainly S with wind speed range of 5-6 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	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li><b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <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>			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <li><b><u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u></b></li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li><b>Farmers are advised to prepare field for sowing of potato,</b></li> <li><b>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</b></li> <li><b>Red Ants: - Drenching with Chlorpyrifos @ 2 ml per litre of water,</b></li> <li><b>Normal weight of potato-25-30 grams</b></li> <li><b>Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant</b></li> </ul>
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>Transplanting of healthy seedlings may be done in well prepared field,</li> <li>Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> <li>Harvesting and marketing of tender okra fruits,</li> <li>Collection and destruction of borer damaged pod,</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	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li><b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetyl AI paste.</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>
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection)	<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> </ul>

		& Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> <li>Remove diseased part &amp; keep inflorescence clean.</li> <li>Uproot &amp; burn virus infected plants</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>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>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</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><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> <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>			

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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 2017)

ग्रामीण कृषि मौसम सेवा



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

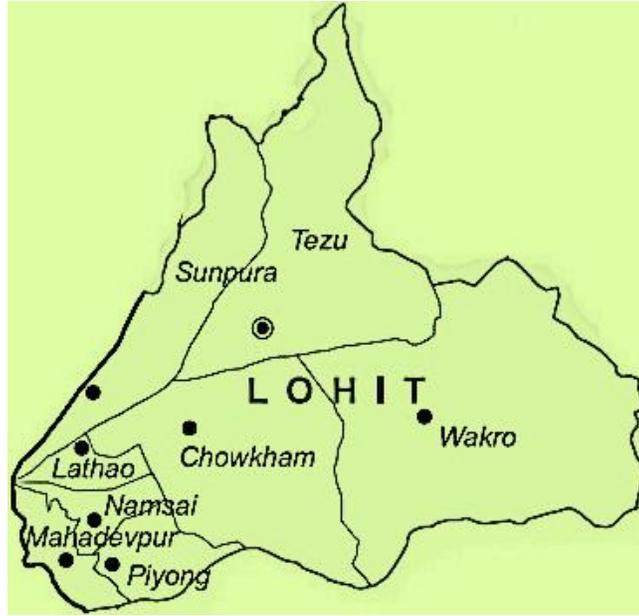


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Lohit**

No: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



Weather summary of the previous week	Weather forecast valid up to 2 <sup>nd</sup> Dec'2017
Rainfall = 2.2 mm (up to 24 <sup>th</sup> Nov)	Generally clear/dry weather forecasted with very light rain on 29 <sup>th</sup> Nov. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 11-12°C respectively. Expected morning and evening relative humidity will be 78-85% and 24-50% respectively. Wind direction is mainly SE with speed range of 5-6 kmph.
<b>Warning:</b>	<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

- 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>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <li>• Harvest mature cobs and dry properly before storing</li> <li>• Use locally available traps to control rats menace</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	Flowering	Blister beetle	<ul style="list-style-type: none"> <li>• Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>• Light inter-culture operations is advised,</li> <li>• Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.</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 Chlorpyrifos @ 2 ml per litre of water,</b></li> </ul>
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul style="list-style-type: none"> <li>• On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids,</li> <li>• On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass,</li> <li>• Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.</li> </ul>
Tomato	Fruiting		<ul style="list-style-type: none"> <li>• Removing sideshoots is an important job which prevents the fruits being shaded by leaves.</li> <li>• Provide shed to protect from excessive rainfall</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>• Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>• <b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</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>
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>
Ginger/Turmeric	Active vegetative		<ul style="list-style-type: none"> <li>• Mulching with locally available materials like dry grass/paddy straw recommended</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>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</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>			

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 helminthic 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>
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>

**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)

**Agrometeorological Field Unit  
ICAR. BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



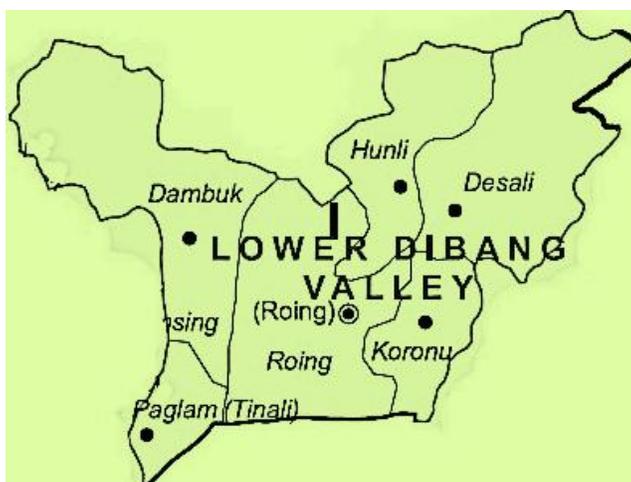
भा.क.अनु.प. - पू.प.सं.  
ICAR - RCNEH

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

**District: Lower Dibang Valley**

No: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



Weather summary of the previous week	Weather forecast valid up to 3 <sup>rd</sup> Dec'2017
Rainfall = 1.6 mm (Roing) (up to 24 <sup>th</sup> Nov)	Generally clear/dry weather forecasted with very light rain on 29 <sup>th</sup> Nov. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 11-12°C respectively. Expected morning and evening relative humidity will be 78-85% and 24-50% respectively. Wind direction is mainly SE with speed range of 5-6 kmph.
<b>Warning:</b>	<b>• Moderate to dense fog likely to occur at isolated places</b>

### 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	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>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li><b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> <li>On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>Do not disturb the soil structure by spading/hoeing in the field.</li> <li>Hand weeding with care is recommended.</li> </ul>
<b>VEGETABLES</b>			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <li><b><u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u></b></li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li><b>Farmers are advised to prepare field for sowing of potato,</b></li> <li><b>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</b></li> <li><b>Red Ants: - Drenching with Chlorpyrifos @ 2 ml per litre of water,</b></li> <li><b>Normal weight of potato-25-30 grams</b></li> <li><b>Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant</b></li> </ul>
Cucurbits (Bottle gourd, Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul style="list-style-type: none"> <li>On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids,</li> <li>On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass,</li> <li>Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li><b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</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>
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>
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>

Large Cardamom	Flowering stage	Chirkey Disease (fungal infection) & 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>
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>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
<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>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 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>
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  
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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 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: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



Weather summary of the previous week	Weather forecast valid up to 3 <sup>rd</sup> Dec'2017
Rainfall = NA	Generally clear/dry weather forecasted with very light rain on 29 <sup>th</sup> Nov. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 11-12°C respectively. Expected morning and evening relative humidity will be 78-85% and 24-50% respectively. Wind direction is mainly SE with speed range of 5-6 kmph.
<b>Warning:</b>	<b>Moderate to dense fog likely to occur at isolated places</b>

### 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>			
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>
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> <li><b>Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage.</b></li> <li><b>Alternate drying and wetting of field is highly desirable in WRC field</b></li> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> <li>On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>Do not disturb the soil structure by spading/hoeing in the field.</li> <li>Hand weeding with care is recommended.</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li><b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
Pulses	Flowering	Blister beetle	<ul style="list-style-type: none"> <li>Application of fertilizers and spray operations to be delayed/avoided</li> <li>Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest</li> </ul>
<b>VEGETABLES</b>			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <li><b><u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u></b></li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li><b>Farmers are advised to prepare field for sowing of potato,</b></li> <li><b>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</b></li> <li><b>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</b></li> <li><b>Normal weight of potato-25-30 grams</b></li> <li><b>Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant</b></li> </ul>
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>Transplanting of healthy seedlings may be done in well prepared field,</li> <li>Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> <li>Harvesting and marketing of tender okra fruits,</li> <li>Collection and destruction of borer damaged pod,</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

Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosefly AI paste.</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>
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>
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> </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>
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>

### Agroforestry

Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
-----------	---------	--	---

### 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
<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> </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 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>			

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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 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: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



Weather summary of the previous week	Weather forecast valid up to 3 <sup>rd</sup> Dec'2017
Rainfall: 0.8 mm; T. Max: 31.0°C; T. Min: 17.0°C ; RH: 57-80% (up to 24 <sup>th</sup> Nov)	<b>Generally clear/dry weather forecasted with moderate rainfall on 29<sup>th</sup> Nov.</b> Daily maximum and minimum temperature for the following period is predicted to be 29-30°C and 16-17°C respectively. Expected morning and evening relative humidity will be 80-90% and 30-54% respectively. Expected wind direction mainly W with speed range of 5-6 kmph.
<b>Warning:</b>	<b>• Moderate to dense fog likely to occur at isolated places</b>

### 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	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>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li><b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <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	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>Light inter-culture operations is advised,</li> <li>Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.</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 Chlorpyrifos @ 2 ml per litre of water,</b></li> </ul>
Tomato	Fruiting		<ul style="list-style-type: none"> <li>Removing sideshoots is an important job which prevents the fruits being shaded by leaves.</li> <li>Provide shed to protect from excessive rainfall</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li><b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetyl AI paste.</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 + Chlorpyrifos 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>
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>
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>
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
<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>			
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>Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals,</li> <li>1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision against FMD</li> <li>Reduce concentrate diet up to 5%</li> <li>Provide adequate potable water</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><b>Provide preventive dose of anti-coccidial drugs to poultry.</b></li> <li>Proper ventilation of shed</li> <li>Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.</li> <li>Remove wet litter</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>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li><b><u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u></b></li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 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: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



Weather summary of the previous week	Weather forecast valid up to 2 <sup>nd</sup> Dec'2017
Rainfall = 0.0 mm (up to 24 <sup>th</sup> Nov)	Generally clear/dry weather forecasted. Daily maximum and minimum temperature for the following period is predicted to be 13-15°C and 06-08°C respectively. Expected morning and evening relative humidity will be 75-88% and 30-45% respectively. Wind direction is mainly SE & SSE with probable speed range of 5-9 kmph.
<b>Warning:</b>	<b>• Moderate to dense fog likely to occur at isolated places</b>

### 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> <li>• In case of rain delay harvesting</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <li>• Harvest mature cobs and dry properly before storing</li> <li>• Use locally available traps to control rats menace</li> </ul>
<b>VEGETABLES</b>			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <li>• <b><u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u></b></li> <li>• Weeding of the standing crop may be done,</li> <li>• Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li>• <b>Farmers are advised to prepare field for sowing of potato,</b></li> <li>• <b>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</b></li> <li>• <b>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</b></li> <li>• <b>Normal weight of potato-25-30 grams</b></li> <li>• <b>Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant</b></li> </ul>
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>• Transplanting of healthy seedlings may be done in well prepared field,</li> <li>• Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> <li>• Harvesting and marketing of tender okra fruits,</li> <li>• Collection and destruction of borer damaged pod,</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>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>• Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>• <b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosefly AI paste.</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	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>
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> </ul>

			<ul style="list-style-type: none"> <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>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
<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>
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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 2017)

ग्रामीण कृषि मौसम सेवा



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

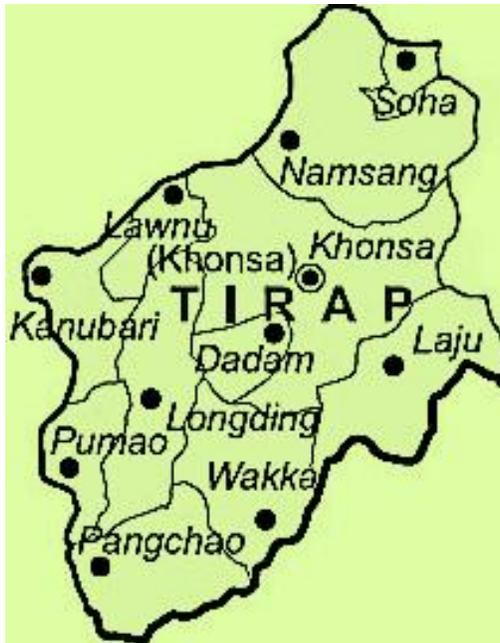


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Tirap**

No: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



Weather summary of the previous week	Weather forecast valid up to 3 <sup>rd</sup> Dec'2017
Rainfall = 0.0 mm (up to 24 <sup>th</sup> Nov)	Generally clear/dry weather forecasted with light rain on 29 <sup>th</sup> Nov. Daily maximum and minimum temperature for the following period is predicted to be 28°C and 14-15°C respectively. Expected morning and evening relative humidity will be 78-82% and 29-35% respectively. Wind direction is mainly ESE with speed range of 5-6 kmph.
<b>Warning:</b>	<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>			
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>
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>
Soybean	Harvesting		<ul style="list-style-type: none"> <li>Immediately harvest soybean &amp; thoroughly dry in sun.</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li><b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
<b>VEGETABLES</b>			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <li><b><u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u></b></li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li><b>Farmers are advised to prepare field for sowing of potato,</b></li> <li><b>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</b></li> <li><b>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</b></li> <li><b>Normal weight of potato-25-30 grams</b></li> <li><b>Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant</b></li> </ul>
Tomato	Fruiting		<ul style="list-style-type: none"> <li>Removing sideshoots is an important job which prevents the fruits being shaded by leaves.</li> <li>Provide shed to protect from excessive rainfall</li> </ul>
Summer Vegetables	Multiple stages		<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Use pheromone traps/light traps against brinjal shoot and fruit borer.</li> <li>New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.</li> </ul>
Ginger/turmeric	Vegetative stage	Soft Rot	<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers</li> <li>For management of soft rot in ginger: Need based drenching of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li><b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</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 + Chlorpyrifos 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	Flowering stage	Chirkey Disease (fungal infection) & 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>
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>			
			<ul style="list-style-type: none"> <li>• Box must be covered with straw/dry leaves to provide warmth</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</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>			
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>
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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



भा क अरु प - पू प सं  
ICAR - RCNEH

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

**District: Upper Siang**

No: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



Weather summary of the previous week	Weather forecast valid up to 2 <sup>nd</sup> Dec'2017
Rainfall = 0.0 mm	Generally clear/dry weather forecasted with very light rain on 29 <sup>th</sup> Nov. Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 16-17°C respectively. Expected morning and evening relative humidity will be 75-88% and 27-50% respectively. Wind direction is mainly SSE with speed range of 6 kmph.
<b>Warning:</b>	<b>• Moderate to dense fog likely to occur at isolated places</b>

### 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
<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>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <li>• Harvest mature cobs and dry properly before storing</li> <li>• Use locally available traps to control rats menace</li> </ul>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> <li>• On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>• Do not disturb the soil structure by spading/hoeing in the field.</li> <li>• Hand weeding with care is recommended.</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>• Transplanting of healthy seedlings may be done in well prepared field,</li> <li>• Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <li>• <b><u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u></b></li> <li>• Weeding of the standing crop may be done,</li> <li>• Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li>• <b>Farmers are advised to prepare field for sowing of potato,</b></li> <li>• <b>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</b></li> <li>• <b>Red Ants: - Drenching with Chlorpyrifos @ 2 ml per litre of water,</b></li> <li>• <b>Normal weight of potato-25-30 grams</b></li> <li>• <b>Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant</b></li> </ul>
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> <li>• Harvesting and marketing of tender okra fruits,</li> <li>• Collection and destruction of borer damaged pod,</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>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>• Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>• <b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetyl AI paste.</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 water</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	Seedling		<ul style="list-style-type: none"> <li>• Proper drainage to be done and avoid water stagnation</li> </ul>

			<ul style="list-style-type: none"> <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>Box must be covered with straw/dry leaves to provide warmth</li> <li>Provide sugar syrup</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</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>			
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 helminthic 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>
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 poultry shed 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>			

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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 2017)

ग्रामीण कृषि मौसम सेवा



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

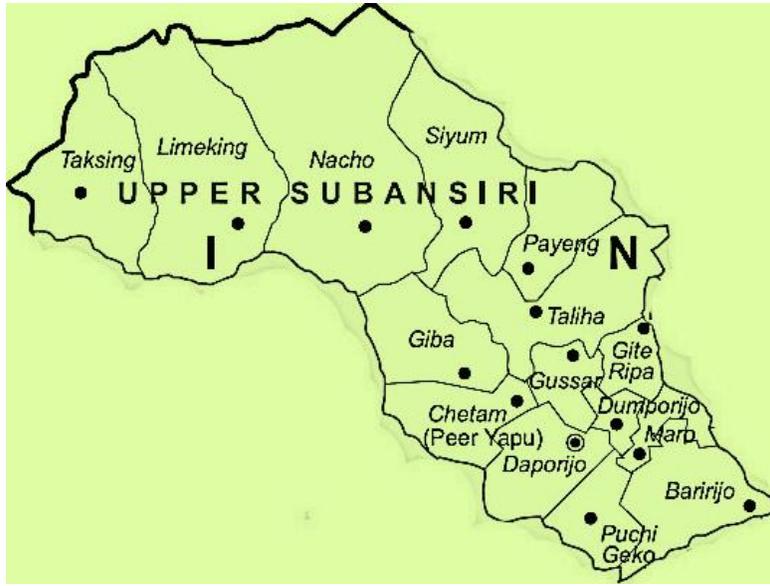


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Upper Subansiri**

No: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



Weather summary of the previous week	Weather forecast valid up to 2 <sup>nd</sup> Dec'2017
Daporijo: 0.4 mm (up to 24 <sup>th</sup> Nov)	Generally clear/dry weather forecasted with light rain on 29 <sup>th</sup> Nov. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 11-12°C respectively. Expected morning and evening relative humidity will be 78-85% and 24-50% respectively. Expected wind direction mainly SE with speed range of 5-6 kmph.
<b>Warning</b>	<b>Moderate to dense fog likely to occur at isolated places</b>

### 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	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li><b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <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	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> <li>Farmers are advised to prepare field for sowing of potato,</li> <li><b>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</b></li> <li><b>Red Ants: - Drenching with Chlorpyrifos @ 2 ml per litre of water,</b></li> <li><b>Normal weight of potato-25-30 grams</b></li> <li><b>Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant</b></li> </ul>
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>Transplanting of healthy seedlings may be done in well prepared field,</li> <li>Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <li><b><u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u></b></li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> <li>Harvesting and marketing of tender okra fruits,</li> <li>Collection and destruction of borer damaged pod,</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>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li><b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetyl AI paste.</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 water</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> </ul>

			<ul style="list-style-type: none"> <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>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
<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>			

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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 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: 95/2017/Tue

Dated: 28<sup>th</sup> November, 2017



Weather summary of the previous week	Weather forecast valid up to 3 <sup>rd</sup> Dec'2017
Rainfall = Bomdila: 0.0 ; Bhalukpong: 0.0 mm (up to 24 <sup>th</sup> Nov)	<b>Generally clear/dry weather forecasted.</b> Daily maximum and minimum temperature for the following period is predicted to be 21-22°C and 10-12°C respectively. Expected morning and evening relative humidity will be 80-88% and 32-51% respectively. Wind direction is mainly NW & NNW with speed range of 6-7 kmph.
<b>Warning:</b>	<b>• Moderate to dense fog likely to occur at isolated places</b>

### 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> <li>• In case of rain delay harvesting</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <b><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></b></li> <li>• Harvest mature cobs and dry properly before storing</li> <li>• Use locally available traps to control rats menace</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>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> <li>• On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>• Do not disturb the soil structure by spading/hoeing in the field.</li> <li>• Hand weeding with care is recommended.</li> </ul>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>• Transplanting of healthy seedlings may be done in well prepared field,</li> <li>• Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> <li>• Harvesting and marketing of tender okra fruits,</li> <li>• Collection and destruction of borer damaged pod,</li> </ul>
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <li>• <b><u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u></b></li> <li>• Weeding of the standing crop may be done,</li> <li>• Monitoring of standing crops against attack of insect pests and diseases.</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	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>• Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>• <b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetyl AI paste.</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/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</li> </ul>

			land/plain areas to avoid water stagnation in fruit orchards
Apple	Vegetative	Woolly aphids	<ul style="list-style-type: none"> <li>Swab the stem with mineral oil against woolly aphid.</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>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</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>			
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>			

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: 29<sup>th</sup> Nov to 1<sup>st</sup> Dec, 2017)

ग्रामीण कृषि मौसम सेवा



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

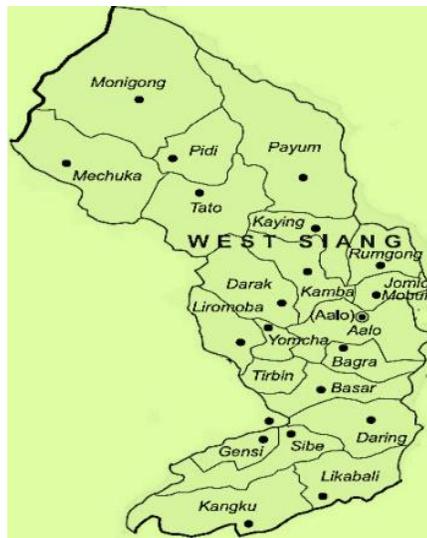


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: West Siang**

**No: 95/2017/Tue**

**Dated: 28<sup>th</sup> November, 2017**



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

Weather summary of the previous week	Weather forecast valid up to 2 <sup>nd</sup> Dec'2017
<b>Basar:</b> Rainfall = 0.4 mm. T. Max: 24.6°C, T. Min: 9.6°C, RH: 53-97%, Wind Speed: 3-6 kmph, Wind Direction: SW & ENE	<b>Generally clear/dry weather forecasted.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 14-15°C respectively. Expected morning and evening relative humidity will be 75-82% and 20-50% respectively. Wind direction is mainly W with speed range of 5-7 kmph.
<b>Warning:</b>	<b>Moderate to dense fog likely to occur at isolated places</b>

## 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>
Pea	Vegetative	Cut-worm	<ul style="list-style-type: none"> <li>Regular monitoring of crop against attack of cutworm is advised,</li> </ul>
Soybean	Harvesting		<ul style="list-style-type: none"> <li>Immediately harvest soybean &amp; thoroughly dry in sun.</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>
<b>VEGETABLES</b>			
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting  <u>Cut worm</u>	<ul style="list-style-type: none"> <li>Light inter-culture operations is advised,</li> <li>Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.</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>
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> <li>Harvesting and marketing of tender okra fruits,</li> <li>Collection and destruction of borer damaged pod,</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>
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul style="list-style-type: none"> <li>On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids,</li> <li>On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass,</li> <li>Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</b></li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li><b>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosefly AI paste.</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/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>
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> </ul>
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) &	<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> </ul>

		Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> <li>Uproot &amp; burn virus infected plants</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> <li>Provide sugar syrup</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</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>			
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>
Goat	All stages		<ul style="list-style-type: none"> <li>Deworming for gastrointestinal parasite</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>			

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)