

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 18<sup>th</sup> to 20<sup>th</sup> October 2017)

ग्रामीण कृषि मौसम सेवा



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

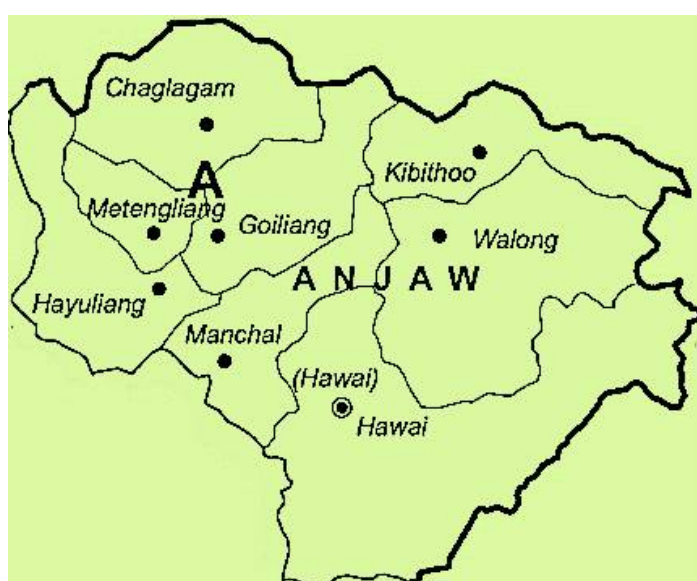


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Anjaw**

**No: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



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

Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
No weather summary available	<b>Sunny/Partly cloudy with possibility of light/moderate rainfall on 21<sup>st</sup> &amp; 22<sup>nd</sup> Oct.</b> Daily maximum and minimum temperature for the following period is predicted to be 25°C and 14°C respectively. Expected morning and evening relative humidity will be 46-88% and 16-71% respectively. Wind direction is mainly E at a speed range of 5-9 kmph.
<b>Warning:</b>	•

### 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>			
Black Gram & Green Gram	Sowing		<ul style="list-style-type: none"> <li>Sowing can be done in rice fallow of <i>jhum</i> without delay</li> <li>Avoid water logging maintaining proper drainage</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>Treat pea with rhizobium@2gm/kg seed before sowing</li> </ul>
Rice	Dough Grain filling stage	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>
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><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>
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li><b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li><b><u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></b></li> <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 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>			
Guava	Fruiting		<ul style="list-style-type: none"> <li>Basin cleaning</li> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects.</li> </ul>
Kiwi	Fruiting		<ul style="list-style-type: none"> <li>Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.</li> </ul>
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li><b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>There are reports of attack of Gummosis in orchards,</li> <li>Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> </ul>

			<ul style="list-style-type: none"> <li>To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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>
Banana	Bunching & planting		<ul style="list-style-type: none"> <li>Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.</li> <li>Remove the male flower in banana bunches to attain better finger/fruit size.</li> <li>Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.</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>Need based spray of broad spectrum fungicide like carbendazim @2g/lit of water.</li> <li>Uproot &amp; burn virus infected plants / Spray Imidacloprid 17.8% SL @ 2ml/10 lit at 10-15 days interval.</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>			
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>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. <ul style="list-style-type: none"> <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> </ul> </li> <li>Remove wet litter</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><b>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</b></li> <li><b>Separate sick animals</b></li> </ul>

			<ul style="list-style-type: none"><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. 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: 18<sup>th</sup> to 20<sup>th</sup> October 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: 83/2017/Tue

Dated: 17<sup>th</sup> October, 2017



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

Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall = Changlang: 0.0 mm Miao: 17.0 mm (up to 13 <sup>th</sup> Oct)	<b>Partly/Mostly cloudy with possibility of light/moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 31-32°C and 20-21°C respectively. Expected morning and evening relative humidity will be 67-96% and 37-86% respectively. Wind direction is mainly E with speed range of 2-6 kmph.
<b>Warning</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

<ul style="list-style-type: none"> <li>• In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, <i>Rabi</i> pulse, pea and oilseeds.</li> <li>• Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.</li> </ul>			
Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Black Gram & Green Gram	Sowing		<ul style="list-style-type: none"> <li>• Sowing can be done in rice fallow of <i>jhum</i> without delay</li> <li>• Avoid water logging maintaining proper drainage</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>• Treat pea with rhizobium@2gm/kg seed before sowing</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></li> <li>• Harvest mature cobs and dry properly before storing</li> <li>• Use locally available traps to control rats menace</li> </ul>
Rice	Dough Grain filling stage	Gundhi bug	<ul style="list-style-type: none"> <li>• Monitor crop against attack of gundhi bug,</li> <li>• Weeding is advised to ward off the alternate host of gundhi bug</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>• <b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></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>			
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>
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li>• <u><b>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</b></u></li> <li>• <u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with <i>Trichoderma</i> @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></li> <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>• <b>Weeding of the standing crop may be done,</b></li> <li>• <b>Monitoring of standing crops against attack of insect pests and diseases.</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>
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>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li>• <b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>• There are reports of attack of Gummosis in orchards,</li> <li>• Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>• Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>• To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>• Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>• Remove sly and use it as a new planting material.</li> <li>• Sucker dipping treatment with Bavistin @ 3g + Chlorpyrifos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.</li> </ul>
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>
Banana	Fruiting/ Ripening	Scary beetle	<ul style="list-style-type: none"> <li>• To control scary beetle – application of Malathion dust @ 0.5% is advised,</li> <li>• Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and 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>			
<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>
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. <ul style="list-style-type: none"> <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> </ul> </li> <li>• Remove wet litter</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<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> </ul>

		Swine Fever	<ul style="list-style-type: none"><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>
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>• <u><b>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.</b></u></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>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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

Agrometeorological Field Unit  
ICAR, BASAR



# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 18<sup>th</sup> to 20<sup>th</sup> October 2017)



ग्रामीण कृषि मौसम सेवा



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

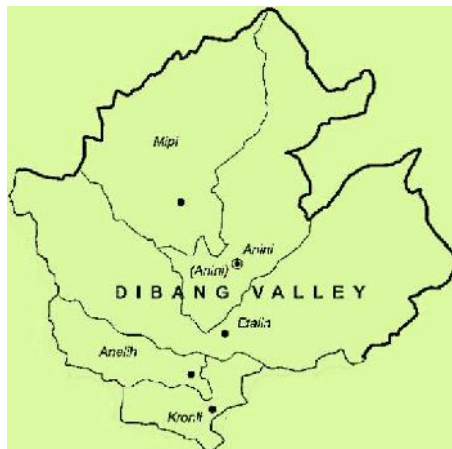


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Dibang Valley**

**No: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



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

Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall = 1.0 mm (Anini) (up to 13 <sup>th</sup> Oct)	Sunny/Partly cloudy with possibility of light/moderate rainfall on 21 <sup>st</sup> & 22 <sup>nd</sup> Oct. Daily maximum and minimum temperature for the following period is predicted to be 24°C and 14-15°C respectively. Expected morning and evening relative humidity will be 44-93% and 18-67% respectively. Wind direction is mainly E with speed range of 5-10 kmph.
<b>Warning:</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
FIELD CROPS			
Black Gram & Green Gram	Sowing		<ul style="list-style-type: none"> <li>Sowing can be done in rice fallow of <i>jhum</i> without delay</li> <li>Avoid water logging maintaining proper drainage</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>Treat pea with rhizobium@2gm/kg seed before sowing</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</li> <li>Proper sun drying before storage</li> </ul>
Rice	Panicle initiation/ Dough Grain filling stage	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><b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></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>
VEGETABLES			
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li><b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li><b><u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with <i>Trichoderma</i> @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></b></li> <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 <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>
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li><b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>There are reports of attack of Gummosis in orchards,</li> <li>Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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/ltr 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>
Banana	Bunching & planting		<ul style="list-style-type: none"> <li>Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.</li> <li>Remove the male flower in banana bunches to attain better finger/fruit size.</li> <li>Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.</li> </ul>
Apple	Vegetative	Wooly aphids	<ul style="list-style-type: none"> <li>Swab the stem with mineral oil against wooly aphid.</li> </ul>
Honey Bees			
Honey bees			<ul style="list-style-type: none"> <li>In case of rain provide sugar syrup</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.)	<ul style="list-style-type: none"> <li>Keep the houses dry and clean.</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> </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. <ul style="list-style-type: none"> <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> </ul> </li> <li>Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li><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></li> <li>Provide UMB/Molasses if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li><b>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</b></li> <li><b>Separate sick animals</b></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>
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> </ul>

			<ul style="list-style-type: none"><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>
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: 18<sup>th</sup> to 20<sup>th</sup> October 2017)

ग्रामीण कृषि मौसम सेवा



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

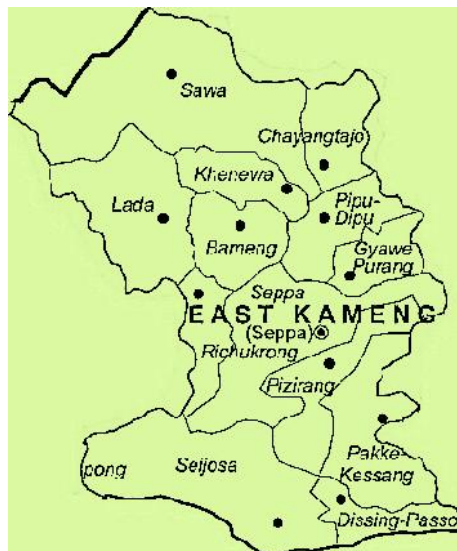


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

### District: East Kameng

**No: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall = 0.0 mm (up to 13 <sup>th</sup> Oct)	Partly/mostly cloudy with possibility of very light rainfall on 21 <sup>st</sup> & 22 <sup>nd</sup> Oct. Daily maximum and minimum temperature for the following period is predicted to be 29-30°C and 17-18°C respectively. Expected morning and evening relative humidity will be 64-98% and 35-89% respectively. Expected wind direction is mainly SE & ESE with speed range of 2-7 kmph.
<b>Warning:</b>	•

### 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

- In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, *Rabi* pulse, pea and oilseeds.
- Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Black Gram & Green Gram	Sowing		<ul style="list-style-type: none"> <li>• Sowing can be done in rice fallow of <i>jhum</i> without delay</li> <li>• Avoid water logging maintaining proper drainage</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>• Treat pea with rhizobium@2gm/kg seed before sowing</li> </ul>
Rice	Panicle initiation/ Dough Grain filling stage	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>• <b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></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>			
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>
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li>• <b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li>• <b><u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></b></li> <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>• <b>Weeding of the standing crop may be done,</b></li> <li>• <b>Monitoring of standing crops against attack of insect pests and diseases.</b></li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Citrus Canker Soot Grab	<ul style="list-style-type: none"> <li>• Undertake necessary tillage operation if there is no rain.</li> <li>• Remove weeds from the tree basin and prepare ring around the tree.</li> <li>• Due to high humidity the problem of citrus canker get aggravated in acid lime leading to excessive fruit drop. Spray copper oxychloride 180 gms with spreptocycline 6 gms in 60 liters of water to control canker</li> <li>• Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> <li>• <b>Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab.</b></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</li> </ul>



		& Chirke and Foorkey (virus infection)	straw recommended <ul style="list-style-type: none"> <li>Remove diseased part &amp; keep inflorescence clean.</li> <li>Uproot &amp; burn virus infected plants</li> </ul>
Pineapple	Active vegetative		<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Remove excess suckers to increase fruit size and improve quality.</li> </ul>
Banana	Bunching & planting		<ul style="list-style-type: none"> <li>Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.</li> <li>Remove the male flower in banana bunches to attain better finger/fruit size.</li> <li>Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.</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>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>
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><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.               <ul style="list-style-type: none"> <li>➤ Day old chick: HVT Marek disease vaccine, 4-7 days:</li> <li>F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days:</li> <li>F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.</li> </ul> </li> <li>Remove wet litter</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> </ul>

			<ul style="list-style-type: none"><li>• Provide 10-30 ml of vitamin B-Complex in feed</li><li>• <b>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</b></li><li>• <b>Separate sick animals</b></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>
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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

Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 18<sup>th</sup> to 20<sup>th</sup> October 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: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



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

Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall: 0.0 mm; T. Max: 35.0°C; T. Min: 23.0°C ; RH: 68-81% (up to 13 <sup>th</sup> Oct)	Sunny/cloudy with possibility of light/moderate rainfall on 21 <sup>st</sup> & 22 <sup>nd</sup> Oct. Daily maximum and minimum temperature for the following period is predicted to be 32-33°C and 22-23°C respectively. Expected morning and evening relative humidity will be 56-97% and 24-76% respectively. Expected wind direction is mainly W with speed range of 2-6 kmph.
<b>Warning:</b>	•

### 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

<ul style="list-style-type: none"> <li>• In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, <i>Rabi</i> pulse, pea and oilseeds.</li> <li>• Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.</li> </ul>			
Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Black Gram & Green Gram	Sowing		<ul style="list-style-type: none"> <li>• Sowing can be done in rice fallow of <i>jhum</i> without delay</li> <li>• Avoid water logging maintaining proper drainage</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>• Treat pea with rhizobium@2gm/kg seed before sowing</li> </ul>
Rice	Dough Grain filling stage	Gundhi bug	<ul style="list-style-type: none"> <li>• Monitor crop against attack of gundhi bug,</li> <li>• Weeding is advised to ward off the alternate host of gundhi bug</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>• Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></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>
VEGETABLES			
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>• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</li> <li>• Normal weight of potato-25-30 grams</li> <li>• Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant</li> </ul>
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li>• <b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li>• <u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></li> <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>
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</li> </ul>

			disease infestation.
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>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li><b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>There are reports of attack of Gummosis in orchards,</li> <li>Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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>
Banana	Fruiting/ Ripening		<ul style="list-style-type: none"> <li>Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and 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>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>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>
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>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</b></li> </ul>

			<b>(Vaccines available in State Veterinary Depts),</b>
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. <ul style="list-style-type: none"> <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> </ul> </li> <li>• Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• <u><b>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.</b></u></li> <li>• Provide UMB/Molases if possible in the feed</li> <li>• Provide 10-30 ml of vitamin B-Complex in feed</li> <li>• <b>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</b></li> <li>• <b>Separate sick animals</b></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: 18<sup>th</sup> to 20<sup>th</sup> October 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: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



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

Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Past weather summary not available	<b>Sunny/Partly cloudy with possibility moderate rainfall on 21<sup>st</sup> &amp; 22<sup>nd</sup> Oct.</b> Daily maximum and minimum temperature for the following period is predicted to be 24°C and 14°C respectively. Expected morning and evening relative humidity will be 68-97% and 30-74% respectively. Wind direction is mainly W with wind speed range of 2-7 kmph.
Warning	•

### 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>			
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>
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> <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>• <b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></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>			
Cauliflower /Cabbage	Nursery Preparation	Cut worm	<ul style="list-style-type: none"> <li>• Maintain proper moisture level in the nursery.</li> <li>• Nursery preparation for early cruciferous crops may be done in raised bed (Preferable in shaded area),</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>
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li>• <u>In present weather conditions, raising nursery of hybrid tomato, cauliflower and cabbage may be done. The seeds should be sown on raised bed (15-20 cm) after treating with <i>Trichoderma</i> @ 10 g/kg are with Captan/Thiram @ 3 g/kg seeds. 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> </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>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li>• <b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>• There are reports of attack of Gummosis in orchards,</li> <li>• Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>• Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>• To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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>
Kiwi	Vegetative		<ul style="list-style-type: none"> <li>• Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw to protect from heavy rainfall</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>
Banana	Bunching & planting		<ul style="list-style-type: none"><li>Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.</li><li>Remove the male flower in banana bunches to attain better finger/fruit size.</li><li>Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.</li><li>Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.</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>
Honey Bees			
			<ul style="list-style-type: none"><li>Box must be covered with straw/dry leaves to provide warmth</li></ul>
LIVESTOCKS			
General			
<ul style="list-style-type: none"><li>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</li><li>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</li></ul>			
Livestock	Stage	Disease	Precautionary Practices to be followed
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"><li>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>
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>Proper ventilation of shed</li><li>Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water</li><li>Follow ‘All in All out’ system of rearing and do not rear birds of different age groups together.</li><li>Avoid overcrowding.</li><li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li><li>Provide adequate clean drinking water+electrolyte and multi-vitamins</li><li>Vaccination as per the schedule with proper consultation with vet.<ul style="list-style-type: none"><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></ul></li><li>Remove wet litter</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><b>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</b></li><li><b>Separate sick animals</b></li></ul>

			<ul style="list-style-type: none"><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>			

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Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 18<sup>th</sup> to 20<sup>th</sup> October 2017)

ग्रामीण कृषि मौसम सेवा



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

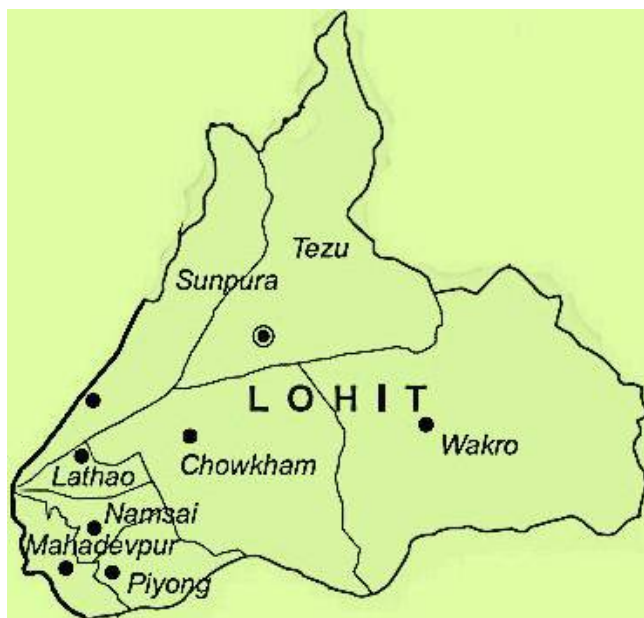


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Lohit**

**No: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall = 0.0 mm (up to 13 <sup>th</sup> Oct)	<b>Partly/mostly cloudy with possibility of light/moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 31°C and 18-19°C respectively. Expected morning and evening relative humidity will be 57-91% and 28-79% respectively. Wind direction is mainly ENE with speed range of 3-7 kmph.
<b>Warning:</b>	•

### 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
FIELD CROPS			
Black Gram & Green Gram	Sowing		<ul style="list-style-type: none"> <li>Sowing can be done in rice fallow of <i>jhum</i> without delay</li> <li>Avoid water logging maintaining proper drainage</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>Treat pea with rhizobium@2gm/kg seed before sowing</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>
Rice	Dough Grain filling stage	Gundhi bug	<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>Monitor crop against attack of gundhi bug,</li> <li>Weeding is advised to ward off the alternate host of gundhi bug</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><b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></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>
VEGETABLES			
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>
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li><b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li><b><u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></b></li> <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><b>Weeding of the standing crop may be done,</b></li> <li><b>Monitoring of standing crops against attack of insect pests and diseases.</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>
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li><b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> </ul>



			<ul style="list-style-type: none"> <li>There are reports of attack of Gummosis in orchards,</li> <li>Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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>
Banana	Fruiting/Ripening		<ul style="list-style-type: none"> <li>Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and 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>
Honey Bees			
Honey bees			<ul style="list-style-type: none"> <li>Provide sugar syrup near the box</li> <li>Add insulation and ventilation systems</li> </ul>
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b> <ul style="list-style-type: none"> <li>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>
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><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. <ul style="list-style-type: none"> <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> </ul> </li> <li>Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li><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></li> <li>Provide UMB/Molases if possible in the feed</li> </ul>

			<ul style="list-style-type: none"><li>• Provide 10-30 ml of vitamin B-Complex in feed</li><li>• <b>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</b></li><li>• <b>Separate sick animals</b></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>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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

**Agrometeorological Field Unit**  
**ICAR. BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 18<sup>th</sup> to 20<sup>th</sup> October 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

**District: Lower Dibang Valley**

**No: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall = 0.0 mm (Roing) (up to 13 <sup>th</sup> Oct)	Sunny/Partly cloudy with possibility of light/moderate rainfall on 21 <sup>st</sup> & 22 <sup>nd</sup> Oct. Daily maximum and minimum temperature for the following period is predicted to be 27°C and 17-18°C respectively. Expected morning and evening relative humidity will be 44-94% and 18-72% respectively. Wind direction is mainly E with speed range of 4-9 kmph.
<b>Warning:</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

<ul style="list-style-type: none"> <li>• In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, <i>Rabi</i> pulse, pea and oilseeds.</li> <li>• Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.</li> </ul>			
Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Black Gram & Green Gram	Sowing		<ul style="list-style-type: none"> <li>• Sowing can be done in rice fallow of <i>jhum</i> without delay</li> <li>• Avoid water logging maintaining proper drainage</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>• Treat pea with rhizobium@2gm/kg seed before sowing</li> </ul>
Rice	Dough Grain filling stage	Gundhi bug	<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>• Monitor crop against attack of gundhi bug,</li> <li>• Weeding is advised to ward off the alternate host of gundhi bug</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>• <b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <u><b>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</b></u></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>			
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>
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li>• <u><b>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</b></u></li> <li>• <u><b>The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</b></u></li> <li>• <u><b>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.</b></u></li> <li>• <b>Weeding of the standing crop may be done,</b></li> <li>• <b>Monitoring of standing crops against attack of insect pests and diseases.</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>			

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>
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li><b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>There are reports of attack of Gummosis in orchards,</li> <li>Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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>
Banana	Fruiting/ Ripening		<ul style="list-style-type: none"> <li>Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and 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>
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><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>
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. <ul style="list-style-type: none"> <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> </ul> </li> <li>Remove wet litter</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>Keep the houses dry and clean.</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> </ul>

			<ul style="list-style-type: none"><li>• Provide adequate potable water</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>• <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></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>
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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Agrometeorological Field Unit  
ICAR. BASAR



# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 18<sup>th</sup> to 20<sup>th</sup> October 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: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



Weather summery of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall = NA	Sunny/Partly cloudy with possibility of light rainfall on 21 <sup>st</sup> & 22 <sup>nd</sup> Oct. Daily maximum and minimum temperature for the following period is predicted to be 29-30°C and 17-18°C respectively. Expected morning and evening relative humidity will be 66-98% and 33-78% respectively. Wind direction is mainly WSW with speed range of 2-7 kmph.
<b>Warning:</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

<ul style="list-style-type: none"> <li>• In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, <i>Rabi</i> pulse, pea and oilseeds.</li> <li>• Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.</li> </ul>			
Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Black Gram & Green Gram	Sowing		<ul style="list-style-type: none"> <li>• Sowing can be done in rice fallow of <i>jhum</i> without delay</li> <li>• Avoid water logging maintaining proper drainage</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>• Treat pea with rhizobium@2gm/kg seed before sowing</li> </ul>
Rice	Dough Grain filling stage	Gundhi bug	<ul style="list-style-type: none"> <li>• Monitor crop against attack of gundhi bug,</li> <li>• Weeding is advised to ward off the alternate host of gundhi bug</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>• <b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></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>
VEGETABLES			
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	Nursery		<ul style="list-style-type: none"> <li>• <b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li>• <b><u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with <i>Trichoderma</i> @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></b></li> <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>
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li>• <b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>• There are reports of attack of Gummosis in orchards,</li> <li>• Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> </ul>

			<ul style="list-style-type: none"> <li>Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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/ltr 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>
Banana	Fruiting/Ripening		<ul style="list-style-type: none"> <li>Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.</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>
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Proper drainage to be done and avoid water stagnation</li> <li></li> </ul>
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>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
<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>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. <ul style="list-style-type: none"> <li>➤ Day old chick: HVT Marek disease vaccine, 4-7 days:</li> <li>F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days:</li> </ul> </li> </ul>

			<p>F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.</p> <ul style="list-style-type: none"><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>• <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></li><li>• Provide UMB/Molases if possible in the feed</li><li>• Provide 10-30 ml of vitamin B-Complex in feed</li><li>• <b>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</b></li><li>• <b>Separate sick animals</b></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: 18<sup>th</sup> to 20<sup>th</sup> October 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: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall: 0.0 mm; T. Max: 37.0°C; T. Min: 22.0°C ; RH: 61-85% (up to 13 <sup>th</sup> Oct)	Partly/mostly cloudy with possibility of moderate rainfall on 21 <sup>st</sup> and 22 <sup>nd</sup> Oct. Daily maximum and minimum temperature for the following period is predicted to be 33°C and 22°C respectively. Expected morning and evening relative humidity will be 65-97% and 42-83% respectively. Expected wind direction mainly ESE with speed range of 3-6 kmph.
<b>Warning:</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



<ul style="list-style-type: none"> <li>• In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, <i>Rabi</i> pulse, pea and oilseeds.</li> <li>• Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.</li> </ul>			
Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Black Gram & Green Gram	Sowing		<ul style="list-style-type: none"> <li>• Sowing can be done in rice fallow of <i>jhum</i> without delay</li> <li>• Avoid water logging maintaining proper drainage</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>• Treat pea with rhizobium@2gm/kg seed before sowing</li> </ul>
Rice	Dough Grain filling stage	Gundhi bug	<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>• Monitor crop against attack of gundhi bug,</li> <li>• Weeding is advised to ward off the alternate host of gundhi bug</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>• <b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></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>• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,</li> <li>• Normal weight of potato-25-30 grams</li> <li>• Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant</li> </ul>
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li>• <b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li>• <b><u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with <i>Trichoderma</i> @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></b></li> <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>
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>
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</li> </ul>



			with a raised bed to protect against continuous rain/shower.
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>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li><b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>There are reports of attack of Gummosis in orchards,</li> <li>Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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>
Banana	Fruiting/ Ripening		<ul style="list-style-type: none"> <li>Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and 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>
<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><b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> <li><b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li> </ul>			
Goat	All stages		<ul style="list-style-type: none"> <li>Deworming for gastrointestinal parasite</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the	<ul style="list-style-type: none"> <li>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</li> </ul>

		mouth and foot.) Swine Fever	FMD <ul style="list-style-type: none"> <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>• <u><b>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.</b></u></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: 18<sup>th</sup> to 20<sup>th</sup> October 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: 83/2017/Tue

Dated: 17<sup>th</sup> October, 2017



Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall = 0.0 mm (up to 13 <sup>th</sup> Oct)	Partly cloudy with possibility of no rainfall. Daily maximum and minimum temperature for the following period is predicted to be 21-23-24°C and 12°C respectively. Expected morning and evening relative humidity will be 62-96% and 24-80% respectively. Wind direction is mainly E & WSW with probable speed range of 4-6 kmph.
Warning:	•

### 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	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> <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><b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></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>			
Cauliflower /Cabbage	Nursery Preparation	Cut worm	<ul style="list-style-type: none"> <li>Maintain proper moisture level in the nursery.</li> <li>Nursery preparation for early cruciferous crops may be done in raised bed (Preferable in shaded area),</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>
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li><u>In present weather conditions, raising nursery of hybrid tomato, cauliflower and cabbage may be done. The seeds should be sown on raised bed (15-20 cm) after treating with Trichoderma @ 10 g/kg are with Captan/Thiram @ 3 g/kg seeds. 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> </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>			
Kiwi	Vegetative		<ul style="list-style-type: none"> <li>Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.</li> </ul>
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li><b>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li><b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>There are reports of attack of Gummosis in orchards,</li> <li>Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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>
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and	<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>

		Foorkey (virus infection)	
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> <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>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>
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><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. <ul style="list-style-type: none"> <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> </ul> </li> <li>Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li><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></li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li><b>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</b></li> <li><b>Separate sick animals</b></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>

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**Agrometeorological Field Unit  
ICAR, BASAR**



# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 18<sup>th</sup> to 20<sup>th</sup> October 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

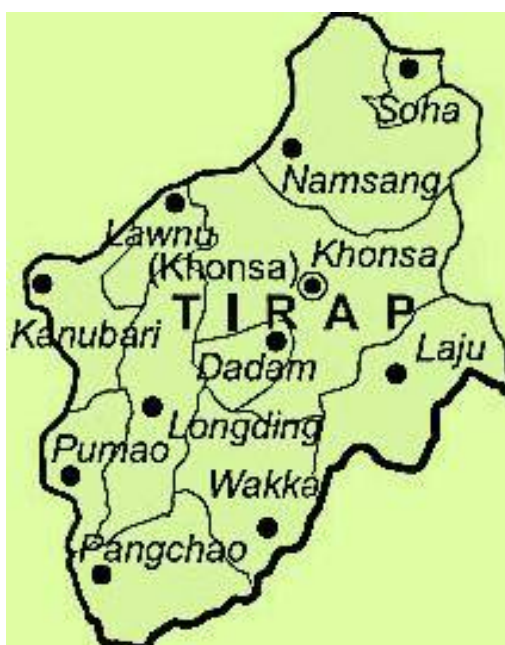


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Tirap**

**No: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall = 2.2 mm (up to 13 <sup>th</sup> Oct)	Mostly cloudy with light/moderate rainfall on 21 <sup>st</sup> & 22 <sup>nd</sup> Oct. Daily maximum and minimum temperature for the following period is predicted to be 32°C and 22°C respectively. Expected morning and evening relative humidity will be 86-99% and 54-95% respectively. Wind direction is mainly ESE and E with speed range of 2-4 kmph.
<b>Warning:</b>	•

### 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

<ul style="list-style-type: none"> <li>• In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, <i>Rabi</i> pulse, pea and oilseeds.</li> <li>• Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.</li> </ul>			
Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Black Gram & Green Gram	Sowing		<ul style="list-style-type: none"> <li>• Sowing can be done in rice fallow of <i>jhum</i> without delay</li> <li>• Avoid water logging maintaining proper drainage</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>• Treat pea with rhizobium@2gm/kg seed before sowing</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>
Rice	Dough Grain filling stage	Gundhi bug	<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>• Monitor crop against attack of gundhi bug,</li> <li>• Weeding is advised to ward off the alternate host of gundhi bug</li> <li>• Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyrifos@1-2ml/lit.</li> <li>• <b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></li> </ul>
VEGETABLES			
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>
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li>• <b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li>• <b><u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></b></li> <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>• <b>Weeding of the standing crop may be done,</b></li> <li>• <b>Monitoring of standing crops against attack of insect pests and diseases.</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</li> </ul>

			drenching of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li>• <b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>• There are reports of attack of Gummosis in orchards,</li> <li>• Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>• Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>• To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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>
Banana	Fruiting/ Ripening		<ul style="list-style-type: none"> <li>• Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and 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>
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>• 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> </ul>

			<ul style="list-style-type: none"> <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>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• <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></li> <li>• Provide UMB/Molases if possible in the feed</li> <li>• Provide 10-30 ml of vitamin B-Complex in feed</li> <li>• <b>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</b></li> <li>• <b>Separate sick animals</b></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>
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: 18<sup>th</sup> to 20<sup>th</sup> October 2017)

ग्रामीण कृषि मौसम सेवा



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



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

**District: Upper Siang**

**No: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



Weather summery of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall = 0.0 mm (up to 13 <sup>th</sup> Oct)	Mostly Sunny/Partly cloudy with possibility of light/moderate rainfall on 21 <sup>st</sup> & 22 <sup>nd</sup> Oct. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 14°C respectively. Expected morning and evening relative humidity will be 54-91% and 23-58% respectively. Wind direction is mainly SSE with speed range of 3-7 kmph.
<b>Warning:</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



<ul style="list-style-type: none"> <li>• In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, <i>Rabi</i> pulse, pea and oilseeds.</li> <li>• Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.</li> </ul>			
Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> <li>• Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage.</li> <li>• Alternate drying and wetting of field is highly desirable in WRC field</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</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></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	Nursery		<ul style="list-style-type: none"> <li>• <b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li>• <u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with <i>Trichoderma</i> @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></li> <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>
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>• <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u></li> <li>• <u>To manage the disease, provide adequate drainage and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/ neem cake.</u></li> <li>• Mulching should be done with locally available mulch,</li> <li>• Earthing up of exposed rhizome,</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li>• <b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>• There are reports of attack of Gummosis in orchards,</li> <li>• Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>• Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>• To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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> </ul>



			<ul style="list-style-type: none"> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lit of water to protect against soil borne disease and insect.</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>
Banana	Bunching & planting		<ul style="list-style-type: none"> <li>Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.</li> <li>Remove the male flower in banana bunches to attain better finger/fruit size.</li> <li>Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.</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>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>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>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. <ul style="list-style-type: none"> <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> </ul> </li> <li>Remove wet litter</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>
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</li> </ul>

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

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Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 18<sup>th</sup> to 20<sup>th</sup> October 2017)

ग्रामीण कृषि मौसम सेवा



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

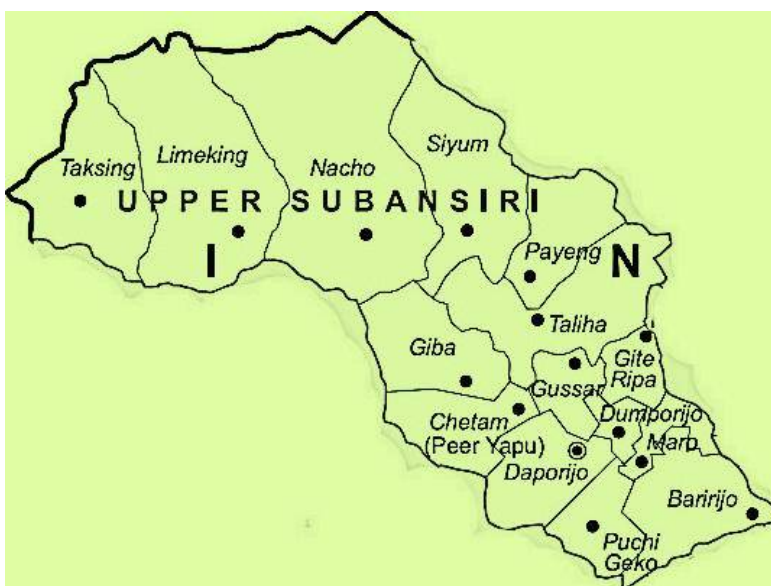


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Upper Subansiri**

**No: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Daporijo: 0.0 mm (up to 13 <sup>th</sup> Oct)	Sunny/cloudy with possibility of light/moderate rainfall on 21 <sup>st</sup> & 22 <sup>nd</sup> Oct. Daily maximum and minimum temperature for the following period is predicted to be 25°C and 14°C respectively. Expected morning and evening relative humidity will be 72-98% and 29-67% respectively. Expected wind direction is mainly WNW with speed range of 2-7 kmph.
<b>Warning</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

<ul style="list-style-type: none"> <li>• In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, <i>Rabi</i> pulse, pea and oilseeds.</li> <li>• Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.</li> </ul>			
Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></li> <li>• Harvest mature cobs and dry properly before storing</li> <li>• Use locally available traps to control rats menace</li> </ul>
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> <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>• <b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></li> </ul>
VEGETABLES			
Rabi vegetables	Nursery		<ul style="list-style-type: none"> <li>• <b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li>• <u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with <i>Trichoderma</i> @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></li> <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>
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>• <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u></li> <li>• <u>To manage the disease, provide adequate drainage and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/ neem cake.</u></li> <li>• Mulching should be done with locally available mulch,</li> <li>• Earthing up of exposed rhizome,</li> </ul>
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li>• <b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>• There are reports of attack of Gummosis in orchards,</li> <li>• Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>• Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>• To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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>
Kiwi	Vegetative		<ul style="list-style-type: none"> <li>• Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.</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>
Banana	Bunching & planting		<ul style="list-style-type: none"> <li>Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.</li> <li>Remove the male flower in banana bunches to attain better finger/fruit size.</li> <li>Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.</li> </ul>
Orchards			<ul style="list-style-type: none"> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Provide sugar syrup near the box</li> <li>Add insulation and ventilation systems</li> </ul>
<b>LIVESTOCKS</b>			
<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>			
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. <ul style="list-style-type: none"> <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> </ul> </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>
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>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li><u><b>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.</b></u></li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li><b>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</b></li> <li><b>Separate sick animals</b></li> <li>The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> </ul>

			<ul style="list-style-type: none"><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>
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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Agrometeorological Field Unit  
ICAR, BASAR



# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 18<sup>th</sup> to 20<sup>th</sup> October 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: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Rainfall = Bomdila: 0.0 ; Bhalukpong: 10.4 mm (up to 13 <sup>th</sup> Oct)	Partly/mostly cloudy with possibility of very light rainfall on 21 <sup>st</sup> and 22 <sup>nd</sup> October. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 14°C respectively. Expected morning and evening relative humidity will be 64-97% and 32-87% respectively. Wind direction is mainly SSW & ENE with speed range of 3-7 kmph.
<b>Warning:</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>			
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></li> <li>• Harvest mature cobs and dry properly before storing</li> <li>• Use locally available traps to control rats menace</li> </ul>
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> <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>• <b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></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>			
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	Nursery		<ul style="list-style-type: none"> <li>• <b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li>• <u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></li> <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>
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> <li>• <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u></li> <li>• <u>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</u></li> <li>• Mulching should be done with locally available mulch,</li> <li>• Earthing up of exposed rhizome,</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li>• <b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>• There are reports of attack of Gummosis in orchards,</li> <li>• Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>• Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>• To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</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>
Kiwi	Vegetative		<ul style="list-style-type: none"> <li>• Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.</li> </ul>

Banana	Bunching & planting		<ul style="list-style-type: none"> <li>Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.</li> <li>Remove the male flower in banana bunches to attain better finger/fruit size.</li> <li>Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.</li> </ul>
Orchards			<ul style="list-style-type: none"> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
Apple	Vegetative	Wooly aphids	<ul style="list-style-type: none"> <li>Swab the stem with mineral oil against wooly aphid.</li> </ul>
Honey Bees			
Honey bees			<ul style="list-style-type: none"> <li>Provide sugar syrup near the box</li> <li>Add insulation and ventilation systems</li> </ul>
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
<b>General</b> <ul style="list-style-type: none"> <li>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>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>
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><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. <ul style="list-style-type: none"> <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> </ul> </li> <li>Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li><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></li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li><b>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</b></li> <li><b>Separate sick animals</b></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</li> </ul>

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

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Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

( Period: 18<sup>th</sup> to 20<sup>th</sup> October 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: 83/2017/Tue**

**Dated: 17<sup>th</sup> October, 2017**



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

Weather summary of the previous week	Weather forecast valid up to 22 <sup>nd</sup> Oct 2017
Basar: Rainfall = 46.2 mm. T. Max: 29.5°C, T. Min: 19.3°C, RH: 61-92%, Wind Speed: 3-7 kmph, Wind Direction: WSW & SE	Sunny/Partly cloudy with possibility of very light rainfall on 21 <sup>st</sup> & 22 <sup>nd</sup> Oct. Daily maximum and minimum temperature for the following period is predicted to be 30-32°C and 20°C respectively. Expected morning and evening relative humidity will be 66-97% and 26-68% respectively. Wind direction is mainly WNW with speed range of 2-7 kmph.
Warning:	•

### 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

<ul style="list-style-type: none"> <li>• In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, <i>Rabi</i> pulse, pea and oilseeds.</li> <li>• Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.</li> </ul>			
Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Black Gram & Green Gram	Sowing		<ul style="list-style-type: none"> <li>• Sowing can be done in rice fallow of <i>jhum</i> without delay</li> <li>• Avoid water logging maintaining proper drainage</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>• Treat pea with rhizobium@2gm/kg seed before sowing</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <li>• <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u></li> <li>• Harvest mature cobs and dry properly before storing</li> <li>• Use locally available traps to control rats menace</li> </ul>
Rice	Dough Grain filling stage	Gundhi bug	<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>• Monitor crop against attack of gundhi bug,</li> <li>• Weeding is advised to ward off the alternate host of gundhi bug</li> <li>• Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyrifos@1-2ml/lit.</li> <li>• <b>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</b></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>
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	Nursery		<ul style="list-style-type: none"> <li>• <b><u>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</u></b></li> <li>• <b><u>The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds.</u></b></li> <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 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>



HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> <li>• <b>Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.</b></li> <li>• <b>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</b></li> <li>• There are reports of attack of Gummosis in orchards,</li> <li>• Drenching with Ridimil @ 2.5 grams per litre of water is advised</li> <li>• Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,</li> <li>• To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.</li> </ul>
Pineapple	Sowing		<ul style="list-style-type: none"> <li>• Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>• Remove sly and use it as a new planting material.</li> <li>• Sucker dipping treatment with Bavistin @ 3g + Chlorpyrifos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.</li> </ul>
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>
Banana	Fruiting/ Ripening		<ul style="list-style-type: none"> <li>• Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.</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>
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>
Honey Bees			
Honey bees			<ul style="list-style-type: none"> <li>• Box must be covered with straw/dry leaves to provide warmth</li> <li>• Provide sugar syrup</li> </ul>
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
<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>• 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>
Fishery			<ul style="list-style-type: none"> <li>• Application of quick lime is highly recommended in order to rectify water pH.</li> </ul>

			<ul style="list-style-type: none"> <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>• <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. <ul style="list-style-type: none"> <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> </ul> </li> <li>• Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• <u><b>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.</b></u></li> <li>• Provide UMB/Molases if possible in the feed</li> <li>• Provide 10-30 ml of vitamin B-Complex in feed</li> <li>• <b>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</b></li> <li>• <b>Separate sick animals</b></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>			

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