### **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 2017)

ग्रामीण कृषि मौसम सेवा



#### GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

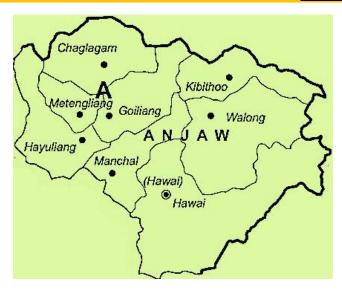


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

**District: Anjaw** 

No: 89/2017/Tue

Dated: 7th November, 2017



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

Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
No weather summary available	<b>Generally clear/dry weather forecasted.</b> Daily maximum and minimum temperature for the following period is predicted to be 21-22°C and 10-11°C respectively. Expected morning and evening relative humidity will be 56-78% and 21-26% respectively. Wind direction is mainly E & NE at a speed range of 6-8 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

- 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
			FIELD CROPS
Pea	Sowing		<ul> <li>Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing</li> <li>Provide irrigation to plants</li> <li>Complete sowing by 1<sup>st</sup> fortnight of Nov. for better yield</li> </ul>
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul> <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 using sticker</li> </ul>
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Black Gram & Green Gram	Vegetative		Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul> <li>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</li> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
			VEGETABLES
Carrot	Sowing		<ul> <li>For better germination soak seed in water overnight, shade dry and sow right away.</li> </ul>
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul> <li>Transplanting of healthy seedlings may be done in well prepared field,</li> <li>Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Potato	Sowing	Red Ants/ Cutworm	<ul> <li>Right time for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</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	Sowing/ Transplanting		<ul> <li>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.</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> <li>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</li> <li>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
Guava	Ripening		Install fruit fly pheromone traps for collection and destruction
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>of the adult insects.</li> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>

Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to protect from cold/frost
Pineapple	Sowing		<ul> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.</li> </ul>
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul> <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>
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
			General be diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Fishery			<ul> <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> <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>
Poultry	All stages		<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</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>
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> </ul>
Mithun		FMD	<ul> <li>Separate sick animals</li> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided from vaccination.</li> </ul>
Contact Sc	ientists (ICAR) or S	State Agril Staff or	KVK staff for measures against adverse conditions or call at 03795- 226237/226247

 $Contact: \hbox{-} \, \underline{IAAS.BASAR@gmail.com}, Phone \ Number: \hbox{-} \, 03795-226247/37, \hbox{-}96 \ (Fax)$ 

## **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 2017)

### ग्रामीण कृषि मौसम सेवा



#### GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

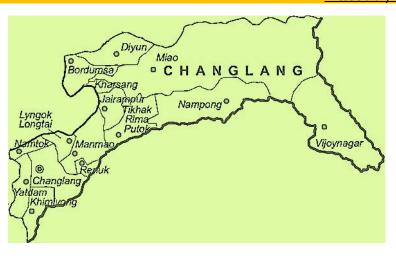


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

**District: Changlang** 

No: 89/2017/Tue

Dated: 7th November, 2017



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

Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
	Generally clear/dry weather forecasted. Daily maximum and
mm (up to 3 <sup>rd</sup> Oct)	minimum temperature for the following period is predicted to be 26-
	27°C and 10-11°C respectively. Expected morning and evening
	relative humidity will be 60-70% and 24-31% respectively. Wind
	direction is mainly ESE with speed range of 4-6 kmph.
Warning	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

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



Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Black Gram & Green Gram	Vegetative		<ul> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Sowing		Treat pea with rhizobium@2gm/kg seed before sowing or treat
			with carbendazim @ 2g/kg seed before sowing
			Provide irrigation to plants
			Complete sowing by 1 <sup>st</sup> fortnight of Nov. for better yield
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul> <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</li> </ul>
			<ul> <li>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> </ul>
			<ul> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5%</li> <li>@ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
Maize	CRI or tasseling	Rat	Maintain adequate moisture level in the field where crop is
	stage/		in CRI stage or in tasseling stage.
	Harvesting		<ul> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
Groundnut	Pegging	Leaf	On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of
	- 66 6	Spot/tikka	water
		disease	Do not disturb the soil structure by spading/hoeing in the field.
			Hand weeding with care is recommended.
Pulses	Flowering	Blister beetle	Go for manual picking of Blister beetle without delay because
			the incidence of the pest during flowering stage cause huge
			lose in harvest
D	F: 11		VEGETABLES
Potato	Field preparation/	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in</li> </ul>
	sowing	Cutworm	• Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours
			before sowing,
			• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per
			litre of water,
			<ul> <li>Normal weight of potato-25-30 grams</li> <li>Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to</li> </ul>
			Plant
Rabi vegetables	Sowing/		After sowing the seeds in the nursery, cover it with
	Transplanting		mixture of well rotten compost + friable soil + sand $(2:1:1)$
			and mulch with paddy straw / dried leaves.
			<ul> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and</li> </ul>
			diseases.
Tomato	Fruiting		Removing sideshoots is an important job which prevents
			the fruits being shaded by leaves.
			Provide shed to protect from excessive rainfall
Cucurbits (Bottle	Harvesting	Aphid/ Red pumpkin	On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids,
gourd,Ridge gourd,		beetle/ Cutworm	On clear/dry weather, Spraying of Deltamethrin 4ml/10  litro of water is advised for management of Red numbring.
Pumpkin,		Cutworm	litre of water is advised for management of Red pumpkin beetle grass,
Bitter gourd, Cucumber, etc.)			<ul> <li>Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.</li> </ul>
		⊔∩рт	TCULTURAL CROPS
Citrus	Fruit	Fruit Drop	In case of citrus psylla attack, spray Monocrotophos @ 0.7ml
	development	Fruit Fly	or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.

	stage	Gummosis	<ul> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>
Pineapple	Sowing		<ul> <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> <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> <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> <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> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> </ul>
			Honey Bees
Honey bees			Box must be covered with straw/dry leaves to provide warmth
			<ul> <li>Provide sugar syrup</li> </ul>
			LIVESTOCKS
Livestock	Stage	Disease	
Damaged gr	ain (not fungus co	ontaminated) to b	Precautionary Practices to be followed General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
<ul><li>Damaged gr</li><li>Clean drink</li></ul>	ain (not fungus co	FMD (high fever and appearance of mucous	Precautionary Practices to be followed  General  e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,  • Deworming for gastrointestinal parasite  • Provide preventive dose of anti-coccidial drugs to poultry.  • Proper ventilation of shed  • Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water  • Avoid overcrowding.  • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.  • Vaccination as per the schedule with proper consultation with vet.  ➤ 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.  • Remove wet litter  • Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals,  • 1 <sup>st</sup> injection at 6 months of age and 2 <sup>nd</sup> injection at 12 months of
Damaged gr     Clean drink     Goat     Poultry	ain (not fungus co ing water should All stages All stages	ontaminated) to be ensured round  FMD (high fever and appearance	Precautionary Practices to be followed  General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,  • Deworming for gastrointestinal parasite  • Provide preventive dose of anti-coccidial drugs to poultry.  • Proper ventilation of shed  • Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water  • Avoid overcrowding.  • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.  • Vaccination as per the schedule with proper consultation with vet.  ➤ 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.  • Remove wet litter  • Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals,  • 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

	Application of turpentine oil in the wounds followed by
	application of antibiotics for five days is advised.
	<ul> <li>Provide UMB/Molases if possible in the feed</li> </ul>
	<ul> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> </ul>
	• 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
	Separate sick animals
	• The animal should be washed with lukewarm water added with little potash (KMnO <sub>4</sub> ) or neem leaves
	• Long hair near the udder/stomach/back legs should be teamed short.
Contact Scientists (ICAR) or State Agril Staff	or KVK staff for measures against adverse conditions or call
at 03	3795-226237/226247

 $Is sued jointly \ by \ ICAR-RC \ for \ NEH \ Region, Arunachal \ Pradesh \ Centre, \ Basar \ and \ India \ Meteorological \ Department \ Contact: -\underbrace{IAAS.BASAR@gmail.com}, \ Phone \ Number: -03795-226247/37, -96 \ (Fax)$ 

## **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 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: 89/2017/Tue

Dated: 7<sup>th</sup> November, 2017



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

Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Rainfall = $5.0 \text{ mm (Anini) } (\mathbf{up to 3}^{rd} \mathbf{Oct})$	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 19-
	20°C and 09-10°C respectively. Expected morning and evening
	relative humidity will be 57-69% and 20-23% respectively. Wind
	direction is mainly SE & SSE with speed range of 6-8 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### 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 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
	1		FIELD CROPS
Black Gram & Green Gram	Vegetative		<ul> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Sowing		<ul> <li>Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing</li> <li>Provide irrigation to plants</li> <li>Complete sowing by 1<sup>st</sup> fortnight of Nov. for better yield</li> </ul>
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul> <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 using sticker</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul> <li>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</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	Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
			VEGETABLES
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</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>
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul> <li>Transplanting of healthy seedlings may be done in well prepared field,</li> <li>Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Rabi vegetables	Sowing/ Transplanting		<ul> <li>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.</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><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> <li>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</li> <li>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
Citrus	Emit		In case of citrus psylle etteck spray Monogratophes @ 0.7ml
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>

Kiwi	Harvesting		<ul> <li>Should be harvested by snapping their stalks</li> </ul>
			• Fruit should be stored boxes containing cushioning materials
			and transported to the market in hard condition.
Pineapple	Sowing		• Clean the vicinity of plants by weeding and loosen up the soil.
			<ul> <li>Remove sly and use it as a new planting material.</li> </ul>
			• Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos
			20EC@ 2ml/lt of water to protect against soil borne disease
			and insect.
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to
			protect from cold/frost
Ginger/Turmeric	Seedling		Mulching with locally available materials like dry grass/paddy
omger, rumerre	Secaming		straw recommended
			Proper drainage to be done and avoid water stagnation
			• Earthing up of ginger/turmeric along with basal application of
			required fertilizer should be done
Apple	Vegetative	Wooly aphids	Swab the stem with mineral oil against wooly aphid.
	_		Honey Bees
Honey bees			In case of rain provide sugar syrup
Honey bees			LIVESTOCKS
Livestock	Stage	Digagge	
Livestock	Stage	Disease	Precautionary Practices to be followed
	• (		General
0 0			e diverted for Poultry/livestock feeding
			the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever	1
		and appearance of mucous	• 1 <sup>st</sup> injection at 6 months of age and 2 <sup>nd</sup> injection at 12 months of
		membrane of the	age followed by annual vaccination under vet supervision against FMD
		mouth and foot.)	11/12
			<ul> <li>Provide adequate potable water</li> </ul>
Poultry	All stages		Provide adequate potable water      Provide preventive dose of anti-coccidial drugs to poultry.
1 Outu y	All stages		<ul> <li>Proper ventilation of shed</li> </ul>
			<ul> <li>Provide glucose/electral along with vitamin supplements (@5-</li> </ul>
			6ml/100 birds) with adequate potable water
			Avoid overcrowding.
			Provide broad-spectrum antihelminthic drugs under vet
			supervision and recommended doses.
			• Vaccination as per the schedule with proper consultation with vet.
			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.
			Remove wet litter
Cattle	All stages	FMD	• In present weather conditions, special care should be taken
	I III sunges		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.
			<ul> <li>application of antibiotics for five days is advised.</li> <li>Protect the new born from cold,</li> </ul>
			<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> </ul>
			<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of</li> </ul>
			<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</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</li> </ul>
			<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</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> </ul>
P:		EMD 4: 1.2	<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> </ul>
Pigs	All stages	FMD (high fever	<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</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>Animals to be housed in dry place or kept in alleviated area and dry</li> </ul>
Pigs	All stages	and appearance	<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals,</li> </ul>
Pigs	All stages	and appearance of mucous	<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <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>1st injection at 6 months of age and 2nd injection at 12 months of</li> </ul>
Pigs	All stages	and appearance of mucous membrane of the	<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <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>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against</li> </ul>
Pigs	All stages	and appearance of mucous membrane of the mouth and foot.)	<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <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>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD</li> </ul>
Pigs	All stages	and appearance of mucous membrane of the	<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <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>1st injection at 6 months of age and 2nd 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>
Pigs	All stages	and appearance of mucous membrane of the mouth and foot.)	<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <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>1st injection at 6 months of age and 2nd 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>
Pigs	All stages	and appearance of mucous membrane of the mouth and foot.)	<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <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>1st injection at 6 months of age and 2nd 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>In present weather conditions vaccinate against swine fever</li> </ul>
	All stages	and appearance of mucous membrane of the mouth and foot.)	<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <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>1st injection at 6 months of age and 2nd 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>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</li> </ul>
Pigs	All stages	and appearance of mucous membrane of the mouth and foot.)	<ul> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <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>1st injection at 6 months of age and 2nd 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>In present weather conditions vaccinate against swine fever</li> </ul>

		Application of fish feed (mustard oil cake) is essential for achieving higher yield	
Mithun	FMD	<ul> <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			

 $Is sued jointly by ICAR-RC for NEH \ Region, Arunachal \ Pradesh \ Centre, \ Basar \ and \ India \ Meteorological \ Department \ Contact: - \underline{IAAS.BASAR@gmail.com}, \ Phone \ Number: -03795-226247/37, -96 \ (Fax)$ 

### **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 2017)

ग्रामीण कृषि मौसम सेवा



### GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

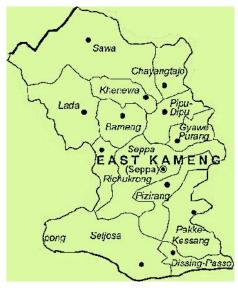


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

### **District: East Kameng**

No: 89/2017/Tue

Dated: 7th November, 2017



Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Rainfall = $0.0 \text{ mm } (\mathbf{up to 3}^{rd} \mathbf{Oct})$	Generally clear/dry weather forecasted with possibility no
	rainfall. Daily maximum and minimum temperature for the
	following period is predicted to be 25-26°C and 12-14°C
	respectively. Expected morning and evening relative humidity will
	be 86-95% and 22-29% respectively. Expected wind direction is
	mainly S with speed range of 5-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

- 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	<b>Precautionary Practices to be followed</b>
			FIELD CROPS
Black Gram & Green Gram	Vegetative		<ul> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Sowing		<ul> <li>Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing</li> <li>Provide irrigation to plants</li> <li>Complete sowing by 1<sup>st</sup> fortnight of Nov. for better yield</li> </ul>
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul> <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 using sticker</li> </ul>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul> <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	Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
			VEGETABLES
Rabi vegetables	Sowing/ Transplanting		<ul> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</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>
		HORT	TICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>
	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Remove diseased part &amp; keep inflorescence clean.</li> <li>Uproot &amp; burn virus infected plants</li> </ul>
Pineapple	Active vegetative		<ul> <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> <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</li> </ul>
Ginger/Turmeric	Seedling		<ul> <li>weight or storm.</li> <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> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul> Agroforestry
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Damaged gr	ain (not fungus o	contaminated) to b	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <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>In present weather conditions vaccinate against swine fever</li> </ul>
Fishery			<ul> <li>(Vaccines available in State Veterinary Depts),</li> <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> <li>Provide preventive dose of anti-coccidial drugs to poultry.</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>
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st 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</li> </ul>

				short.
Mithun		FMD	•	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.
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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### **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 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: 89/2017/Tue

Dated: 7th November, 2017



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

Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Rainfall: 0.4 mm; T. Max: 30.0°C; T. Min:	Generally clear/dry weather forecasted. Daily maximum and
19.0°C; RH: 62-84% ( <b>up to 3</b> <sup>rd</sup> <b>Oct</b> )	minimum temperature for the following period is predicted to be 30-
	31°C and 17-18°C respectively. Expected morning and evening
	relative humidity will be 80-94% and 21-26% respectively.
	Expected wind direction is mainly S with speed range of 5-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

- 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
Pea	Sowing		<ul> <li>Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing</li> <li>Provide irrigation to plants</li> <li>Complete sowing by 1<sup>st</sup> fortnight of Nov. for better yield</li> </ul>
Black Gram & Green Gram	Vegetative		Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul> <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 using sticker</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul> <li>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</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	Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
Groundnut	Pegging	Leaf Spot/tikka disease	<ul> <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>
D 11 (11	g · /		VEGETABLES
Rabi vegetables	Sowing/ Transplanting		<ul> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</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>
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul> <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> <li>Removing sideshoots is an important job which prevents the fruits being shaded by leaves.</li> <li>As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.</li> </ul>
Ginger/turmeric	Vegetative stage	Soft Rot	Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers

			• For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
		,	ICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>
Pineapple	Sowing		<ul> <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> <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		Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul> <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> <li>Proper drainage to be done and avoid water stagnation</li> <li>Earthing up of ginger/turmeric along with basal application of</li> </ul>
			required fertilizer should be done
Honey bees			required fertilizer should be done
Honey bees			required fertilizer should be done  Honey Bees
Honey bees  Livestock	Stage	Disease	required fertilizer should be done  Honey Bees  On prolong rain, provide sugar syrup  LIVESTOCKS  Precautionary Practices to be followed
Livestock  • Damaged gr • Clean drink	ain (not fungus co	ontaminated) to b	required fertilizer should be done  Honey Bees  On prolong rain, provide sugar syrup  LIVESTOCKS  Precautionary Practices to be followed  General be diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Livestock  • Damaged gr	rain (not fungus co	ontaminated) to b	required fertilizer should be done  Honey Bees  On prolong rain, provide sugar syrup  LIVESTOCKS  Precautionary Practices to be followed  General e diverted for Poultry/livestock feeding
Livestock  • Damaged gr • Clean drink	ain (not fungus co	ontaminated) to b	required fertilizer should be done  Honey Bees  On prolong rain, provide sugar syrup  LIVESTOCKS  Precautionary Practices to be followed  General be diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Livestock  • Damaged gr • Clean drink	ain (not fungus co	ontaminated) to b	required fertilizer should be done  Honey Bees  On prolong rain, provide sugar syrup  LIVESTOCKS  Precautionary Practices to be followed  General  e diverted for Poultry/livestock feeding  the clock and water troughs/feeders should be regularly cleaned,  • Deworming for gastrointestinal parasite  • Application of quick lime is highly recommended in order to rectify water pH.  • Application of fish feed (mustard oil cake) is essential for achieving higher yield  • Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals,  • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against

			vaccine and 56-70 days: RD R-2B strain.
			Remove wet litter
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water adde with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamer short.</li> </ul>
Mithun		FMD	<ul> <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>

 $Is sued jointly \ by \ ICAR-RC \ for \ NEH \ Region, Arunachal \ Pradesh \ Centre, \ Basar \ and \ India \ Meteorological \ Department \ Contact: -\underbrace{IAAS.BASAR@gmail.com}, \ Phone \ Number: -03795-226247/37, -96 \ (Fax)$ 

at 03795-226237/226247

### **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 2017)





#### 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: 89/2017/Tue

Dated: 7th November, 2017



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

Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Past weather summary not available	Generally clear/ dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 19-
	20°C and 9-10°C respectively. Expected morning and evening
	relative humidity will be 61-69% and 27-32% respectively. Wind
	direction is mainly variable with wind speed range of 4-6 kmph.
Warning	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

- 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		<b>Precautionary Practices to be followed</b>
			FIELD	CROPS
Black Gram & Green Gram	Vegetative		•	Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Maize	CRI or tasseling	Rat	•	Maintain adequate moisture level in the field where crop is
	stage/			in CRI stage or in tasseling stage.
	Harvesting		•	Harvest mature cobs and dry properly before storing
Rice	Panicle	Gundhi bug/	•	Use locally available traps to control rats menace
Rice	initiation/ Dough		•	Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-
	Grain filling	skipper		2ml/lit.
	stage		•	Maintain periphery of nursery field weed free and clean to
				prevent disease and pest harboring in weeds.
			•	Need based spray of Flubendiamide 3.5% + Hexaconazole
				5% @ 2ml/lit against rice skipper & leaf folder using
<b>11</b> ·	***			sticker
Jhum rice	Harvesting		•	Immediate harvesting of left-over rice advocated
			WEGE	Proper sun drying before storage.
Rabi vegetables	Sowing/		VEGET	TABLES  After sowing the seeds in the nursery, cover it with
Kaoi vegetables	Transplanting		•	mixture of well rotten compost + friable soil + sand (2:1:1)
				and mulch with paddy straw / dried leaves.
			•	Weeding of the standing crop may be done,
			•	Monitoring of standing crops against attack of insect pests and diseases.
Potato	Field	Red Ants/	•	Farmers are advised to prepare field for sowing of potato,
	preparation/	Cutworm	•	Seed treatment-Cut pieces of potato should be dipped in
	sowing			Diethane M-45 @ 2 grams per litre of water for ½ hours
			•	before sowing, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per
				litre of water,
			•	Normal weight of potato-25-30 grams
			•	Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Cabbage/ Cauliflower/	Transplanting/ Vegetative	Wilting	•	Transplanting of healthy seedlings may be done in well prepared field,
Knolkhol/		<u>Cut worm</u>	•	Monitor newly transplanted seedlings against attack of Cut
Others				worm. Apply fresh and dry saw dust (wood) at the pit of the
Okra	Maturing	Pod borer	•	seedlings to repel cut worm  Harvesting and marketing of tender okra fruits,
OKIA	Maturing	1 od bolei	•	Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	•	Under excessive moisture, there is every possibility of
				rhizome rot in ginger and turmeric.
			•	To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with
				FYM/ neem cake.
			•	Mulching should be done with locally available mulch,
			•	Earthing up of exposed rhizome,
Citan	T: 14			CURAL CROPS
Citrus	Fruit development	Fruit Drop Fruit Fly	•	In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.
	stage	Gummosis	•	Apply Bordeaux paste on tree trunk if not applied earlier.
			•	For Phytophthora/gummosis disease control, scrap out the
				oozing portion by a sharp knife and apply metalxyl MZ or
Banana	Bunching	Cold	•	fosetly AI paste.  Cover newly emerged bunches with locally available sack to
		2014		protect from cold/frost
Kiwi	Harvesting		•	Should be harvested by snapping their stalks
			•	Fruit should be stored boxes containing cushioning materials
Ding and	Cowins			and transported to the market in hard condition.
Pineapple	Sowing		•	Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material.
			•	Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos
	1		I	11 0 2 2 2

				20EC@ 2ml/lt of water to protect against soil borne disease
				and insect.
Large Cardamom  Ginger/Turmeric	Flowering stage  Vegetative	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	•	Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants  Proper drainage to be done and avoid water stagnation Earthing up of ginger/turmeric along with basal application of
				required fertilizer should be done
			Hone	y Bees
				Box must be covered with straw/dry leaves to provide warmth
			LIVES	STOCKS

#### General

Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding

Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,

Figure Processing Processing to be followed.

Livestock	Stage	Disease	Precautionary Practices to be followed
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <li>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>
Fishery			<ul> <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> <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 multivitamins</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>
Mithun		FMD	<ul> <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>

• Pregnant animals above 7 months of pregnancy should be avoided.

Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247

 $Is sued jointly \ by \ ICAR-RC \ for \ NEH \ Region, Arunachal \ Pradesh \ Centre, \ Basar \ and \ India \ Meteorological \ Department \ Contact: - \underline{IAAS.BASAR@gmail.com}, \ Phone \ Number: -03795-226247/37, -96 \ (Fax)$ 

### **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 2017)

ग्रामीण कृषि मौसम सेवा



#### GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

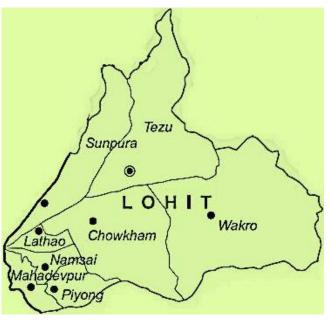


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

**District: Lohit** 

No: 89/2017/Tue

Dated: 7th November, 2017



Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Rainfall = 4.0 mm	Generally clear/dry weather forecasted. Daily maximum and
(up to 3 <sup>rd</sup> Oct)	minimum temperature for the following period is predicted to be 25-
	26°C and 14-15°C respectively. Expected morning and evening
	relative humidity will be 59-67% and 19-23% respectively. Wind
	direction is mainly ENE with speed range of 6-7 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

- 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	Vegetative		Need based foliar spray of Sulfex@2g/lit water to control		
	CDV 1		powdery mildew in black/green gram/pea		
Maize	CRI or tasseling stage/	Rat	Maintain adequate moisture level in the field where crop is  in CPL stage on in taggeling stage.		
	Harvesting		<ul> <li>in CRI stage or in tasseling stage.</li> <li>Harvest mature cobs and dry properly before storing</li> </ul>		
			Use locally available traps to control rats menace		
Pea	Sowing		Treat pea with rhizobium@2gm/kg seed before sowing or treat		
			with carbendazim @ 2g/kg seed before sowing		
			Provide irrigation to plants		
			• Complete sowing by 1 <sup>st</sup> fortnight of Nov. for better yield		
Rice	Milking/seed	Gundhi bug/	• Maintain at least 5 mm water level in the rice field where		
	formation	leaf folder/ rice skipper	crop is in grain filling stage or at tillering stage.		
		skippei	Alternate drying and wetting of field is highly desirable in WRC field		
			Install local trap of dead frog/fermented fish etc against		
			gundhi bug in rice or spray triazophos/chloripyriphos@1-		
			2ml/lit.		
			<ul> <li>Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds.</li> </ul>		
			<ul> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5%</li> </ul>		
			@ 2ml/lit against rice skipper & leaf folder using sticker		
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.		
Pulses	Flowering	Blister beetle	Go for manual picking of Blister beetle without delay because		
			the incidence of the pest during flowering stage cause huge		
			lose in harvest		
Datata	F1-14		VEGETABLES		
Potato	Field preparation/	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in</li> </ul>		
	sowing	Cutworm	Diethane M-45 @ 2 grams per litre of water for ½ hours		
			before sowing,		
			Red Ants: - Drenching with Chlorpyriphos @ 2 ml per		
			litre of water,  • Normal weight of potato-25-30 grams		
			• Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to		
			Plant		
Rabi vegetables	Sowing/		After sowing the seeds in the nursery, cover it with		
	Transplanting		mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.		
			Weeding of the standing crop may be done,		
			<ul> <li>Monitoring of standing crops against attack of insect pests and</li> </ul>		
			diseases.		
Cucurbits	Harvesting	Aphid/	• On clear/dry weather, Spraying of Dimethoate 30 EC @		
(Bottle gourd,Ridge		Red pumpkin beetle/	<ul><li>3ml/litre of water is advised against aphids,</li><li>On clear/dry weather, Spraying of Deltamethrin 4ml/10</li></ul>		
gourd,		Cutworm	On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin		
Pumpkin,			beetle grass,		
Bitter gourd,			• Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per		
Cucumber, etc.)			plant.		
Tomato	Fruiting		Removing sideshoots is an important job which prevents		
			the fruits being shaded by leaves.		
			Provide shed to protect from excessive rainfall		
		HORT	TICULTURAL CROPS		
Citrus	Fruit	Fruit Drop	In case of citrus psylla attack, spray Monocrotophos @ 0.7ml		
	development	Fruit Fly	or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.		
	stage	Gummosis	Apply Bordeaux paste on tree trunk if not applied earlier.  For Place and the service and the service discussion of the service discussion.		
			<ul> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or</li> </ul>		
			fosetly AI paste.		
Pineapple	Sowing		Clean the vicinity of plants by weeding and loosen up the soil.		
			Remove sly and use it as a new planting material.		

			Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos
			20EC@ 2ml/lt of water to protect against soil borne disease
			1
~			and insect.
Guava	Fruit	Fruit fly	Basin cleaning and manuring
	Development		• Install fruit fly pheromone traps for collection and destruction
			of the adult insects
Banana	Fruiting/		<ul> <li>Cover bunches with banana bunch covers or sacks or</li> </ul>
	Ripening		locally available materials to protect against sunscald,
			birds and insects.
Ginger/Turmeric	Active		Mulching with locally available materials like dry grass/paddy
	vegetative		straw recommended
			Honey Bees
Honey bees			Provide sugar syrup near the box
,			Add insulation and ventilation systems
			LIVESTOCKS
T :41-	C4	Diana	
Livestock	Stage	Disease	Precautionary Practices to be followed
			General
	_		e diverted for Poultry/livestock feeding
	ing water should	be ensured round	the clock and water troughs/feeders should be regularly cleaned,
Goat	All stages		Deworming for gastrointestinal parasite
Pigs	All stages	FMD (high fever	Animals to be housed in dry place or kept in alleviated area and dry
		and appearance	bedding (straw) to be provided to young animals,
		of mucous	• 1 <sup>st</sup> injection at 6 months of age and 2 <sup>nd</sup> injection at 12 months of
		membrane of the	age followed by annual vaccination under vet supervision against
		mouth and foot.)	
		Swine Fever	Reduce concentrate diet up to 5%
			Provide adequate potable water
			• In present weather conditions vaccinate against swine fever
			(Vaccines available in State Veterinary Depts),
Fishery			Application of quick lime is highly recommended in order to
3			rectify water pH.
			• •
			Application of fish feed (mustard oil cake) is essential for
			achieving higher yield
Poultry	All stages		Provide preventive dose of anti-coccidial drugs to poultry.
			Proper ventilation of shed
			• Provide glucose/electral along with vitamin supplements (@5-
			6ml/100 birds) with adequate potable water
			Avoid overcrowding.
			Provide broad-spectrum antihelminthic drugs under vet
			supervision and recommended doses.
			• Vaccination as per the schedule with proper consultation with vet.
			➤ 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.
			Remove wet litter
Cattle	All stages	FMD	• 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.
			Provide UMB/Molases if possible in the feed
			Provide 10-30 ml of vitamin B-Complex in feed
			• 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
			Separate sick animals
			The animal should be washed with lukewarm water added
			with little potash (KMnO <sub>4</sub> ) or neem leaves
			Long hair near the udder/stomach/back legs should be teamed
			short.
Contact Scien	tists (ICAR) or	State Agril Staff	f or KVK staff for measures against adverse conditions or call
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Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department Contact: - <a href="mailto:IAAS.BASAR@gmail.com">IAAS.BASAR@gmail.com</a>, Phone Number: - 03795-226247/37, -96 (Fax)

### **Agro-met Advisory Bulletin**

( Period: 8th to 10th November 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: 89/2017/Tue

Dated: 7th November, 2017



Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Rainfall = $3.6 \text{ mm}$ (Roing) ( <b>up to 3</b> <sup>rd</sup> <b>Oct</b> )	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 25-
	26°C and 12-14°C respectively. Expected morning and evening
	relative humidity will be 64-74% and 22-26% respectively. Wind
	direction is mainly ESE & SSE with speed range of 6-7 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
D11- C 0	V		FIELD CROPS
Black Gram & Green Gram	Vegetative		<ul> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Sowing		• Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing
			Provide irrigation to plants
			Complete sowing by 1 <sup>st</sup> fortnight of Nov. for better yield
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
		Gundhi bug/	
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul> <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%</li> </ul>
			@ 2ml/lit against rice skipper & leaf folder using sticker
Maize	CRI or tasseling	Rat	• Maintain adequate moisture level in the field where crop is
	stage/		in CRI stage or in tasseling stage.
	Harvesting		Harvest mature cobs and dry properly before storing
C 1 1	ъ.	T C	Use locally available traps to control rats menace
Groundnut	Pegging	Leaf	On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of
		Spot/tikka disease	water
		uisease	Do not disturb the soil structure by spading/hoeing in the field.
			Hand weeding with care is recommended.
			VEGETABLES
Rabi vegetables	Sowing/		After sowing the seeds in the nursery, cover it with
	Transplanting		<ul> <li>mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</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>
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul> <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>
G'A	T		CICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>
Guava	Fruit Development	Fruit fly	<ul> <li>Basin cleaning and manuring</li> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects</li> </ul>
Pineapple	Sowing		<ul> <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> <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> <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) &	Mulching with locally available materials like dry grass/paddy straw recommended
		Chirke and Foorkey (virus infection)	<ul> <li>Remove diseased part &amp; keep inflorescence clean.</li> <li>Uproot &amp; burn virus infected plants</li> </ul>
Orchards			<ul> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low</li> </ul>
			land/plain areas to avoid water stagnation in fruit orchards
			Honey Bees
Honey bees			<ul> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
	_		General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Goat	All stages	be chsured round	Deworming for gastrointestinal parasite
Poultry	All stages		Provide preventive dose of anti-coccidial drugs to poultry.
	C		Proper ventilation of shed
			• Provide glucose/electral along with vitamin supplements (@5-
			<ul><li>6ml/100 birds) with adequate potable water</li><li>Avoid overcrowding.</li></ul>
			<ul> <li>Provide broad-spectrum antihelminthic drugs under vet</li> </ul>
			supervision and recommended doses.
			• Vaccination as per the schedule with proper consultation with vet.
			➤ 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.
			Remove wet litter
Pigs	All stages	FMD (high fever	,
		and appearance of mucous	• 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
		membrane of the	against FMD
		mouth and foot.)	reduce concentrate diet ap to 570
Fishery			<ul><li>Provide adequate potable water</li><li>Application of quick lime is highly recommended in order to</li></ul>
1 isliely			rectify water pH.
			• Application of fish feed (mustard oil cake) is essential for
O-11	A 11 - 4 -	EMID	achieving higher yield
Cattle	All stages	FMD	• <u>In present weather conditions, special care should be taken</u> 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.
			<ul> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> </ul>
			• 1st injection at 6-8 weeks of age, 2nd injection after 6 months of
			1 <sup>st</sup> injection followed by annual vaccination under vet
			<ul><li>supervision</li><li>Separate sick animals</li></ul>
			<ul> <li>The animal should be washed with lukewarm water added</li> </ul>
			with little potash (KMnO <sub>4</sub> ) or neem leaves
			<ul> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
			SHOIL.

## Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247

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

### **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 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: 89/2017/Tue

Dated: 7th November, 2017



Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Rainfall = NA	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 24-
	25°C and 12-13°C respectively. Expected morning and evening
	relative humidity will be 82-90% and 22-29% respectively. Wind
	direction is mainly SSW & WSW with speed range of 4-5 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
D1 1 5			FIELD CROPS
Black Gram &	Vegetative		• Need based foliar spray of Sulfex@2g/lit water to control
Green Gram			powdery mildew in black/green gram/pea
Pea	Sowing		• Treat pea with rhizobium@2gm/kg seed before sowing or treat
			with carbendazim @ 2g/kg seed before sowing
			Provide irrigation to plants
			• Complete sowing by 1 <sup>st</sup> fortnight of Nov. for better yield
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed	Gundhi bug/	• Maintain at least 5 mm water level in the rice field where
	formation	leaf folder/ rice skipper	<ul> <li>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-</li> </ul>
			<ul> <li>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%</li> </ul>
			@ 2ml/lit against rice skipper & leaf folder using sticker
Groundnut	Pegging	Leaf	On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of
		Spot/tikka	water
		disease	• Do not disturb the soil structure by spading/hoeing in the field.
			Hand weeding with care is recommended.
Maize	CRI or tasseling	Rat	Maintain adequate moisture level in the field where crop is
	stage/ Harvesting		<ul> <li>in CRI stage or in tasseling stage.</li> <li>Harvest mature cobs and dry properly before storing</li> </ul>
	Tiai vesting		<ul> <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	Application of fertilizers and spray operations to be
	C		delayed/avoided
			Go for manual picking of Blister beetle without delay because
			the incidence of the pest during flowering stage cause huge
			lose in harvest
			VEGETABLES
Rabi vegetables	Sowing/ Transplanting		<ul> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and</li> </ul>
Datata	Field	Red Ants/	diseases.
Potato	preparation/	Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in</li> </ul>
	sowing	Cutwonin	Diethane M-45 @ 2 grams per litre of water for ½ hours
			<ul><li>before sowing,</li><li>Red Ants: - Drenching with Chlorpyriphos @ 2 ml per</li></ul>
			litre of water,
			Normal weight of potato-25-30 grams
			• Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to
		******	Plant
Cabbage/ Cauliflower/	Transplanting/ Vegetative	Wilting	Transplanting of healthy seedlings may be done in well  propered field.
Knolkhol/	v egetative	Cut worm	<ul><li>prepared field,</li><li>Monitor newly transplanted seedlings against attack of Cut</li></ul>
Others			worm. Apply fresh and dry saw dust (wood) at the pit of the
			seedlings to repel cut worm
Okra	Maturing	Pod borer	Harvesting and marketing of tender okra fruits,
			Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	Under excessive moisture, there is every possibility of
			rhizome rot in ginger and turmeric.
			To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with
			FYM/ neem cake.
			Mulching should be done with locally available mulch,
			Earthing up of exposed rhizome,

		HORT	ICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to protect from cold/frost
Kiwi	Harvesting		<ul> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Pineapple	Sowing		<ul> <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> <li>Basin cleaning and manuring</li> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects</li> </ul>
Ginger/Turmeric	Seedling		<ul> <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> <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		inicetiony	<ul> <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>
Talas malus	NI		Agroforestry
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
Honey bees			<ul> <li>Honey Bees</li> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
0 0			General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
• Clean drink Cattle	All stages	e ensurea rouna FMD	<ul> <li>In present weather conditions, special care should be taken</li> </ul>
			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.  Protect the new born from cold,  Avoid dampness at dry area,
			<ul> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <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>

		(Vaccines available in State Veterinary Depts),
Poultry	All stages	<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</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> <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> <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	FM	<ul> <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>

 $Is sued jointly \ by \ ICAR-RC \ for \ NEH \ Region, Arunachal \ Pradesh \ Centre, \ Basar \ and \ India \ Meteorological \ Department \ Contact: - \underline{IAAS.BASAR@gmail.com}, \ Phone \ Number: -03795-226247/37, -96 \ (Fax)$ 

at 03795-226237/226247

## **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 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: 89/2017/Tue

Dated: 7th November, 2017



Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Rainfall: 10.6 mm; T. Max: 32.0°C; T. Min:	Generally clear/dry weather forecasted. Daily maximum and
15.0°C; RH: 63-80% ( <b>up to 3</b> <sup>rd</sup> <b>Oct</b> )	minimum temperature for the following period is predicted to be 28-
	29°C and 16-17°C respectively. Expected morning and evening
	relative humidity will be 83-94% and 29-40% respectively.
	Expected wind direction mainly WNW with speed range of 5 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>
Black Gram & Green Gram	Vegetative		<ul> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Sowing		<ul> <li>Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing</li> <li>Provide irrigation to plants</li> <li>Complete sowing by 1<sup>st</sup> fortnight of Nov. for better yield</li> </ul>
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul> <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 using sticker</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul> <li>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</li> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
			VEGETABLES
Rabi vegetables	Sowing/ Transplanting		<ul> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</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>
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul> <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> <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> <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> <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 drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.</li> </ul>
		HORT	ICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>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.</li> <li>Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day.</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> <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> <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> <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> <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> <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> <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			<ul> <li>Honey Bees</li> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
<ul><li>Damaged gr</li><li>Clean drink</li></ul>	ain (not fungus co	ontaminated) to b	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Goat	All stages	EMP 4: 1 °	Deworming for gastrointestinal parasite
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul> <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	Reduce concentrate diet up to 5%
			Provide adequate potable water
			• In present weather conditions vaccinate against swine fever
			(Vaccines available in State Veterinary Depts),
Poultry	All stages		<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</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 versupervision 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> </ul>
Eighogy			Remove wet litter  Application of spiels lime in highly recommended in order to
Fishery			<ul> <li>Application of quick lime is highly recommended in order to rectify water pH.</li> </ul>
			<ul> <li>Application of fish feed (mustard oil cake) is essential for achieving higher yield</li> </ul>
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under versupervision</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> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be</li> </ul>
<b>Contact Scien</b>	tists (ICAR) or	State Agril Staff	avoided.  or KVK staff for measures against adverse conditions or call

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

at 03795-226237/226247

Agrometeorological Field Unit ICAR. BASAR

## **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 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: 89/2017/Tue

Dated: 7th November, 2017



Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Rainfall = $10.0 \text{ mm } (\mathbf{up to 3}^{rd} \mathbf{Oct})$	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 15-
	16°C and 04-05°C respectively. Expected morning and evening
	relative humidity will be 85-95% and 18-38% respectively. Wind
	direction is mainly SE with probable speed range of 7-10 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

- 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
			FIELD CROPS
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul> <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</li> </ul>
		_	sticker
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul> <li>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</li> <li>Harvest mature cobs and dry properly before storing</li> </ul>
			Use locally available traps to control rats menace  VEGETABLES
Rabi vegetables	Sowing/ Transplanting		<ul> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</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>
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul> <li>Transplanting of healthy seedlings may be done in well prepared field,</li> <li>Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Okra	Maturing	Pod borer	<ul> <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> <li>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</li> <li>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
Citana	E		ICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>
Kiwi	Harvesting		<ul> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Pineapple	Sowing		<ul> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>Remove sly and use it as a new planting material.</li> <li>Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.</li> </ul>
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus	<ul> <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>

		infection)	
Ginger/Turmeric	Seedling		<ul> <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> <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><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
			General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <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>In present weather conditions vaccinate against swine fever</li> </ul>
Fishery			<ul> <li>(Vaccines available in State Veterinary Depts),</li> <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> <li>Provide preventive dose of anti-coccidial drugs to poultry.</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> </ul>
Mithun		FMD	<ul> <li>Remove wet litter</li> <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 Scient	tists (ICAR) or		For KVK staff for measures against adverse conditions or call 3795-226237/226247

Agrometeorological Field Unit ICAR. BASAR

## **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 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: 89/2017/Tue

Dated: 7th November, 2017



Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Rainfall = $0.0 \text{ mm } (\mathbf{up to } 3^{rd} \mathbf{Oct})$	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 28-
	29°C and 16-17°C respectively. Expected morning and evening
	relative humidity will be 63-99% and 32-55% respectively. Wind
	direction is mainly SE with speed range of 2-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Black Gram & Green Gram	Vegetative		<ul> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Sowing		<ul> <li>Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing</li> <li>Provide irrigation to plants</li> <li>Complete sowing by 1<sup>st</sup> fortnight of Nov. for better yield</li> </ul>
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul> <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 using sticker</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul> <li>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</li> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
			VEGETABLES
Rabi vegetables	Sowing/ Transplanting		<ul> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</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>
Tomato	Fruiting		<ul> <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> <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> <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 drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.</li> </ul>
Citma	Danis		CICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or</li> </ul>

			fosetly AI paste.
Pineapple	Sowing		<ul> <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> <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> <li>Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.</li> </ul>
	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul> <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> <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> <li>Honey Bees</li> </ul>
			Box must be covered with straw/dry leaves to provide
			warmth
Livestock	Stogo	Disease	LIVESTOCKS  Processitions were Proceedings to be followed
Livestock	Stage	Disease	Precautionary Practices to be followed General
Damaged gr	ain (not fungus co	ontaminated) to b	e diverted for Poultry/livestock feeding
	_		the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <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 I ever	<ul> <li>Reduce concentrate diet up to 5%</li> <li>Provide adequate potable water</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</li> </ul>
Poultry	All stages	Swille I ever	Provide adequate potable water

		<ul> <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> <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> <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 (IC	CAR) or State Agril Staff	f or KVK staff for measures against adverse conditions or call

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

at 03795-226237/226247

Agrometeorological Field Unit ICAR, BASAR

## **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 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: 89/2017/Tue

Dated: 7th November, 2017



Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Rainfall = $10.4 \text{ mm } (\mathbf{up to 3}^{rd} \mathbf{Oct})$	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 21-
	22°C and 10-11°C respectively. Expected morning and evening
	relative humidity will be 76-87% and 17-21% respectively. Wind
	direction is mainly SE with speed range of 5-9 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul> <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> <li>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</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> <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
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul> <li>Transplanting of healthy seedlings may be done in well prepared field,</li> <li>Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Rabi vegetables	Sowing/ Transplanting		<ul> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</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>
Okra	Maturing	Pod borer	<ul> <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> <li>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</li> <li>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
Citary	Denit		CICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to protect from cold/frost
Kiwi	Harvesting		<ul> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>

Pineapple	Sowing		<ul> <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</li> </ul>
			20EC@ 2ml/lt of water to protect against soil borne disease and insect.
Ginger/Turmeric	Seedling		Proper drainage to be done and avoid water stagnation
			• Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
			Honey Bees
Honey bees			<ul> <li>Box must be covered with straw/dry leaves to provide</li> </ul>
			warmth
			Provide sugar syrup
T · · · · · · · · · · ·	G4	Diameter	LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
• Domogod gr	esin (not fungus o	antaminated) to b	General e diverted for Poultry/livestock feeding
	_		the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever	
1.80	Till stages	and appearance	bedding (straw) to be provided to young animals,
		of mucous	• 1 <sup>st</sup> injection at 6 months of age and 2 <sup>nd</sup> injection at 12 months of
		membrane of the	age followed by annual vaccination under vet supervision against
		mouth and foot.)	1 1/12
		Swine Fever	Reduce concentrate diet up to 5%
			Provide adequate potable water
			• In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Poultry	All stages		Provide preventive dose of anti-coccidial drugs to poultry.
1 outly	Tin stages		• Provide glucose/electral along with vitamin supplements (@5-
			6ml/100 birds) with adequate potable water
			Avoid overcrowding.
			Provide broad-spectrum antihelminthic drugs under vet
			supervision and recommended doses.
			• Vaccination as per the schedule with proper consultation with vet.
			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.  • Remove wet litter
Cattle	All stages	FMD	<ul> <li>Remove wet litter</li> <li>In present weather conditions, special care should be taken</li> </ul>
Cattle	7 III stages	TIVID	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.
			Protect the new born from cold,
			Avoid dampness at dry area,
			• Store freshly cut paddy straw (To use as feed during lean months)
			• 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
			Separate sick animals
Fishery			Application of quick lime is highly recommended in order to
			rectify water pH.
			• Application of fish feed (mustard oil cake) is essential for
			achieving higher yield
Mithun		FMD	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.
Contact Scien	tists (ICAR) or		f or KVK staff for measures against adverse conditions or call
		ot O	3705_226237/226247

Agrometeorological Field Unit ICAR, BASAR

### **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 2017)

ग्रामीण कृषि मौसम सेवा



#### GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

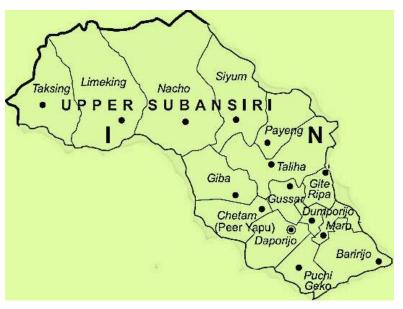


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

**District: Upper Subansiri** 

No: 89/2017/Tue

Dated: 7th November, 2017



Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
Daporijo: 0.0 mm ( <b>up to 3</b> <sup>rd</sup> <b>Oct</b> )	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 24-
	25°C and 11-13°C respectively. Expected morning and evening
	relative humidity will be 80-94% and 20-27% respectively.
	Expected wind direction variable with speed range of 4 kmph.
Warning	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Pea	Sowing		<ul> <li>Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing</li> <li>Provide irrigation to plants</li> <li>Complete sowing by 1<sup>st</sup> fortnight of Nov. for better yield</li> </ul>
Black Gram & Green Gram	Vegetative		Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul> <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 using sticker</li> </ul>
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul> <li>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</li> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
			VEGETABLES
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours</li> </ul>
			<ul> <li>before sowing,</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>
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul> <li>Transplanting of healthy seedlings may be done in well prepared field,</li> <li>Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Rabi vegetables	Sowing/ Transplanting		<ul> <li>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.</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> <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  HORT	<ul> <li>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</li> <li>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
Citrus	Fruit	Fruit Drop	In case of citrus psylla attack, spray Monocrotophos @ 0.7ml
	development stage	Fruit Fly Gummosis	<ul> <li>or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to protect from cold/frost

Pineapple	Sowing		<ul> <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> <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> <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		mocasii	<ul> <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><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
	U		General
Damaged gr	ain (not fungus co	ontaminated) to b	e diverted for Poultry/livestock feeding
0 0			the clock and water troughs/feeders should be regularly cleaned,
Cattle	All stages	FMD	• In present weather conditions, special care should be taken
			<ul> <li>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.</li> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> </ul>
			<ul> <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> </ul>
Poultry	All stages		<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</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> <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> <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>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</li> </ul>
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months

		•	route.  Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or	O		KVK staff for measures against adverse conditions or call 5-226237/226247

 $Is sued jointly \ by \ ICAR-RC \ for \ NEH \ Region, Arunachal \ Pradesh \ Centre, \ Basar \ and \ India \ Meteorological \ Department \ Contact: - \underline{IAAS.BASAR@gmail.com}, \ Phone \ Number: -03795-226247/37, -96 \ (Fax)$ 

Agrometeorological Field Unit ICAR, BASAR

## **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 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: 89/2017/Tue

Dated: 7th November, 2017



Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
	Generally clear/dry weather forecasted. Daily maximum and
mm ( <b>up to 3</b> <sup>rd</sup> <b>Oct</b> )	minimum temperature for the following period is predicted to be 19-
	20°C and 09-11°C respectively. Expected morning and evening
	relative humidity will be 81-92% and 22-29% respectively. Wind
	direction is mainly WNW with speed range of 7 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul> <li>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</li> <li>Harvest mature cobs and dry properly before storing</li> <li>Use locally available traps to control rats menace</li> </ul>
Pea	Sowing		<ul> <li>Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing</li> <li>Provide irrigation to plants</li> <li>Complete sowing by 1<sup>st</sup> fortnight of Nov. for better yield</li> </ul>
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul> <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%</li> </ul>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul> <li>@ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> <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
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul> <li>Transplanting of healthy seedlings may be done in well prepared field,</li> <li>Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Okra	Maturing	Pod borer	<ul> <li>Harvesting and marketing of tender okra fruits,</li> <li>Collection and destruction of borer damaged pod,</li> </ul>
Rabi vegetables	Sowing/ Transplanting		<ul> <li>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.</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> <li>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</li> <li>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
a:			ICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul> <li>In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.</li> <li>Apply Bordeaux paste on tree trunk if not applied earlier.</li> <li>For Phytophthora/gummosis disease control, scrap out the oozing portion by a sharp knife and apply metalxyl MZ or fosetly AI paste.</li> </ul>
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to protect from cold/frost
Kiwi	Harvesting		<ul> <li>Should be harvested by snapping their stalks</li> <li>Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.</li> </ul>
Pineapple	Sowing		<ul> <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</li> </ul>

			and insect.
Orchards	Vegetative	Wooly aphids	<ul> <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> <li>Swab the stem with mineral oil against wooly aphid.</li> </ul>
			Honey Bees
Honey bees			<ul> <li>Provide sugar syrup near the box</li> <li>Add insulation and ventilation systems</li> </ul>
T	G.	D:	LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed General
0 0			the clock and water troughs/feeders should be regularly cleaned,  Animals to be housed in dry place or kept in alleviated area and dry
	J	and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <li>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>
Fishery			<ul> <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> <li>Provide preventive dose of anti-coccidial drugs to poultry.</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>
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> </ul>
Mithun		FMD	<ul> <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 Scient	tists (ICAR) or	_	f or KVK staff for measures against adverse conditions or call 3795-226237/226247

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

### **Agro-met Advisory Bulletin**

(Period: 8th to 10th November 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: 89/2017/Tue

Dated: 7th November, 2017



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

Weather summery of the previous week	Weather forecast valid up to 12 <sup>th</sup> Nov'2017
<b>Basar:</b> Rainfall = 0.0 mm. T. Max: 26.3°C,	Generally clear/dry weather forecasted. Daily maximum and
T. Min: 11.5°C, RH: 51-96%, Wind Speed:	minimum temperature for the following period is predicted to be 27-
4-7 kmph, Wind Direction: ENE & NW	28°C and 15-16°C respectively. Expected morning and evening
	relative humidity will be 81-94% and 17-21% respectively. Wind
	direction is mainly W with speed range of 4-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

#### Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Black Gram & Green Gram	Vegetative		<ul> <li>Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea</li> </ul>
Pea	Sowing		Treat pea with rhizobium@2gm/kg seed before sowing
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul> <li>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</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> <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>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>
			VEGETABLES
Rabi vegetables	Sowing/ Transplanting		<ul> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul> <li>Farmers are advised to prepare field for sowing of potato,</li> <li>Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,</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>
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul> <li>Transplanting of healthy seedlings may be done in well prepared field,</li> <li>Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm</li> </ul>
Okra	Maturing	Pod borer	<ul> <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> <li>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</li> <li>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</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> <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>
Citme	T		TICULTURAL CROPS
Citrus	Fruit development	Fruit Drop Fruit Fly	• In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.

		l a .	
	stage	Gummosis	Apply Bordeaux paste on tree trunk if not applied earlier.
			<ul> <li>For Phytophthora/gummosis disease control, scrap out the</li> </ul>
			oozing portion by a sharp knife and apply metalxyl MZ or
			fosetly AI paste.
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to
			protect from cold/frost
Kiwi	Harvesting		<ul> <li>Should be harvested by snapping their stalks</li> </ul>
			• Fruit should be stored boxes containing cushioning materials
			and transported to the market in hard condition.
Pineapple	Sowing		<ul> <li>Clean the vicinity of plants by weeding and loosen up the soil.</li> </ul>
			<ul> <li>Remove sly and use it as a new planting material.</li> </ul>
			• Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos
			20EC@ 2ml/lt of water to protect against soil borne disease
			and insect.
Guava	Fruit	Fruit fly	Basin cleaning and manuring
Guava	Development	Truit iry	<ul> <li>Install fruit fly pheromone traps for collection and destruction</li> </ul>
	Development		of the adult insects
Cin con/Tyamania	Coodling		
Ginger/Turmeric	Seedling		Mulching with locally available materials like dry grass/paddy
			straw recommended
I C 1	E1	Child Di	Proper drainage to be done and avoid water stagnation
Large Cardamom	riowering stage		Mulching with locally available materials like dry grass/paddy
		(fungal inection) &	straw recommended
			<ul> <li>Remove diseased part &amp; keep inflorescence clean.</li> </ul>
		Chirke and	Uproot & burn virus infected plants
		Foorkey (virus infection)	
Orchards		infection)	- Drawaya half maay tawaasa in funit anana
Orchards			Prepare half moon terraces in fruit crops  (arenes/hanges/carels/passes) grown in steen clarges to provent
			(orange/banana/apple/peach) grown in steep slopes to prevent
			nutrient loss during heavy downpour.
			• Follow proper drainage and earthing up practices in low
			land/plain areas to avoid water stagnation in fruit orchards
		<u> </u>	Honey Bees
Honey bees			Box must be covered with straw/dry leaves to provide
			warmth
			Provide sugar syrup
Livestock	Stage	Disease	Provide sugar syrup
Livestock	Stage	Disease	Provide sugar syrup  LIVESTOCKS
			Provide sugar syrup  LIVESTOCKS  Precautionary Practices to be followed
Damaged grader	ain (not fungus co	ontaminated) to b	Provide sugar syrup  LIVESTOCKS  Precautionary Practices to be followed  General
Damaged grader	ain (not fungus co	ontaminated) to b	Provide sugar syrup  LIVESTOCKS      Precautionary Practices to be followed  General be diverted for Poultry/livestock feeding
Damaged gr      Clean drinki  Goat	ain (not fungus coing water should All stages	ontaminated) to b be ensured round	Provide sugar syrup  LIVESTOCKS  Precautionary Practices to be followed  General  de diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,      Deworming for gastrointestinal parasite
Damaged gra     Clean drinki	ain (not fungus co	ontaminated) to be be ensured round FMD (high fever	Provide sugar syrup  LIVESTOCKS  Precautionary Practices to be followed  General  de diverted for Poultry/livestock feeding  the clock and water troughs/feeders should be regularly cleaned,      Deworming for gastrointestinal parasite  Animals to be housed in dry place or kept in alleviated area and dry
Damaged gr      Clean drinki  Goat	ain (not fungus coing water should All stages	ontaminated) to be ensured round  FMD (high fever and appearance	<ul> <li>Provide sugar syrup</li> <li>LIVESTOCKS</li> <li>Precautionary Practices to be followed</li> <li>General</li> <li>diverted for Poultry/livestock feeding</li> <li>the clock and water troughs/feeders should be regularly cleaned,</li> <li>Deworming for gastrointestinal parasite</li> <li>Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals,</li> </ul>
Damaged gr      Clean drinki  Goat	ain (not fungus coing water should All stages	ontaminated) to be be ensured round FMD (high fever	<ul> <li>Provide sugar syrup</li> <li>LIVESTOCKS</li> <li>Precautionary Practices to be followed</li> <li>General</li> <li>diverted for Poultry/livestock feeding</li> <li>the clock and water troughs/feeders should be regularly cleaned,</li> <li>Deworming for gastrointestinal parasite</li> <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>1st injection at 6 months of age and 2nd injection at 12 months of</li> </ul>
Damaged gr      Clean drinki  Goat	ain (not fungus coing water should All stages	ontaminated) to be ensured round  FMD (high fever and appearance of mucous membrane of the	<ul> <li>Provide sugar syrup</li> <li>LIVESTOCKS</li> <li>Precautionary Practices to be followed</li> <li>General</li> <li>diverted for Poultry/livestock feeding</li> <li>the clock and water troughs/feeders should be regularly cleaned,</li> <li>Deworming for gastrointestinal parasite</li> <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>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against</li> </ul>
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			F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox
			vaccine and 56-70 days: RD R-2B strain.
			Remove wet litter
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Protect the new born from cold,</li> <li>Avoid dampness at dry area,</li> <li>Store freshly cut paddy straw (To use as feed during lean months)</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> </ul>
Mithun		FMD	<ul> <li>Polyvalent FMD vaccine with serotype 0, 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			

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