

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 8th to 10th November 2017)

ग्रामीण कृषि मौसम सेवा



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

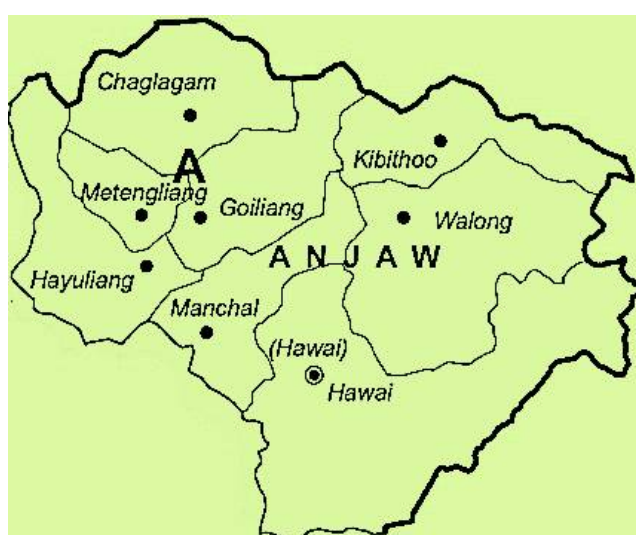


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Anjaw

No: 89/2017/Tue

Dated: 7th November, 2017



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

Weather summary of the previous week	Weather forecast valid up to 12 th Nov'2017
No weather summary available	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 56-78% and 21-26% respectively. Wind direction is mainly E & NE at a speed range of 6-8 kmph.
Warning:	<ul style="list-style-type: none">Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Pea	Sowing		<ul style="list-style-type: none"> 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 1st fortnight of Nov. for better yield
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. 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. 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 sticker
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> 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 style="list-style-type: none"> Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage. Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
VEGETABLES			
Carrot	Sowing		<ul style="list-style-type: none"> For better germination soak seed in water overnight, shade dry and sow right away.
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> Transplanting of healthy seedlings may be done in well prepared field, 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
Potato	Sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> Right time for sowing of potato, 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, 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/ Transplanting		<ul style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u> <u>To manage the disease, provide adequate drainage and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/ neem cake.</u> Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
HORTICULTURAL CROPS			
Guava	Ripening		<ul style="list-style-type: none"> Install fruit fly pheromone traps for collection and destruction of the adult insects.
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. 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 fosetyl AI paste.

Banana	Bunching	Cold	<ul style="list-style-type: none"> Cover newly emerged bunches with locally available sack to protect from cold/frost
Pineapple	Sowing		<ul style="list-style-type: none"> 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 + Chlorpyrifos 20EC@ 2ml/lit of water to protect against soil borne disease and insect.
Large Cardamom	Flowering stage	Chirkey Disease (fungal infection) & Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Need based spray of broad spectrum fungicide like carbendazim @2g/lit of water. Uproot & burn virus infected plants / Spray Imidacloprid 17.8% SL @ 2ml/10 lit at 10-15 days interval.
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General <ul style="list-style-type: none"> 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, 			
Fishery			<ul style="list-style-type: none"> 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
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> 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 FMD 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 style="list-style-type: none"> 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. <ul style="list-style-type: none"> ➤ 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 style="list-style-type: none"> <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> Protect the new born from cold, Avoid dampness at dry area, Store freshly cut paddy straw (To use as feed during lean months) 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals
Mithun		FMD	<ul style="list-style-type: none"> 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.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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

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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: Changlang

No: 89/2017/Tue

Dated: 7th November, 2017



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

Weather summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Rainfall = Changlang: 0.0 mm Miao: 8.8 mm (up to 3 rd Oct)	Generally clear/dry weather forecasted. Daily maximum and 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

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Sowing		<ul style="list-style-type: none"> 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 1st fortnight of Nov. for better yield
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. 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. 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 sticker
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water Do not disturb the soil structure by spading/hoeing in the field. Hand weeding with care is recommended.
Pulses	Flowering	Blister beetle	<ul style="list-style-type: none"> 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 style="list-style-type: none"> Farmers are advised to prepare field for sowing of potato, 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, 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/ Transplanting		<ul style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Tomato	Fruiting		<ul style="list-style-type: none"> Removing sideshoots is an important job which prevents the fruits being shaded by leaves. Provide shed to protect from excessive rainfall
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul style="list-style-type: none"> On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
HORTICULTURAL CROPS			
Citrus	Fruit development	Fruit Drop Fruit Fly	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> • 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 fosetly AI paste.
Pineapple	Sowing		<ul style="list-style-type: none"> • 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/ltr of water to protect against soil borne disease and insect.
Guava	Fruit Development	Fruit fly	<ul style="list-style-type: none"> • Basin cleaning and manuring • Install fruit fly pheromone traps for collection and destruction of the adult insects
Banana	Fruiting/Ripening	Scary beetle	<ul style="list-style-type: none"> • To control scary beetle – application of Malathion dust @ 0.5% is advised, • 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 style="list-style-type: none"> • Mulching with locally available materials like dry grass/paddy straw recommended • Remove diseased part & keep inflorescence clean. • Uproot & burn virus infected plants
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> • Mulching with locally available materials like dry grass/paddy straw recommended
Honey Bees			
Honey bees			<ul style="list-style-type: none"> • Box must be covered with straw/dry leaves to provide warmth • Provide sugar syrup
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General <ul style="list-style-type: none"> • 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, 			
Goat	All stages		<ul style="list-style-type: none"> • Deworming for gastrointestinal parasite
Poultry	All stages		<ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> • 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 FMD • 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			<ul style="list-style-type: none"> • 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
Cattle	All stages	FMD	<ul style="list-style-type: none"> • <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals.</u>

			<p><u>Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u></p> <ul style="list-style-type: none">• Provide UMB/Molases if possible in the feed• Provide 10-30 ml of vitamin B-Complex in feed• 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision• Separate sick animals• The animal should be washed with lukewarm water added with little potash (KMnO₄) 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 03795-226237/226247			

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Agrometeorological Field Unit
ICAR, BASAR

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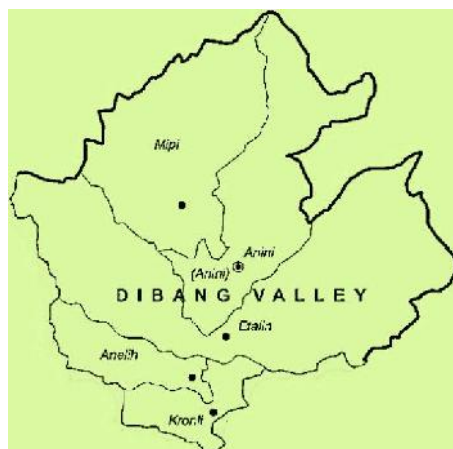


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Dibang Valley

No: 89/2017/Tue

Dated: 7th November, 2017



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

Weather summery of the previous week	Weather forecast valid up to 12 th Nov'2017
Rainfall = 5.0 mm (Anini) (up to 3 rd 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:	<ul style="list-style-type: none">Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Sowing		<ul style="list-style-type: none"> 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 1st fortnight of Nov. for better yield
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. 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. 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 sticker
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
Pulses	Flowering	Blister beetle	<ul style="list-style-type: none"> 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 style="list-style-type: none"> Farmers are advised to prepare field for sowing of potato, 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, Normal weight of potato-25-30 grams Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> Transplanting of healthy seedlings may be done in well prepared field, 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
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u> <u>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</u> Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. 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 fosetly AI paste.

Kiwi	Harvesting		<ul style="list-style-type: none"> Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.
Pineapple	Sowing		<ul style="list-style-type: none"> 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/ltr of water to protect against soil borne disease and insect.
Banana	Bunching	Cold	<ul style="list-style-type: none"> Cover newly emerged bunches with locally available sack to protect from cold/frost
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy 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	<ul style="list-style-type: none"> Swab the stem with mineral oil against wooly aphid.
Honey Bees			
Honey bees			<ul style="list-style-type: none"> In case of rain provide sugar syrup
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General <ul style="list-style-type: none"> 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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water
Poultry	All stages		<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> ➤ 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 style="list-style-type: none"> <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> Protect the new born from cold, Avoid dampness at dry area, Store freshly cut paddy straw (To use as feed during lean months) 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> 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 FMD 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			<ul style="list-style-type: none"> Application of quick lime is highly recommended in order to rectify water pH.

			<ul style="list-style-type: none">• Application of fish feed (mustard oil cake) is essential for achieving higher yield
Mithun		FMD	<ul style="list-style-type: none">• 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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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 8th to 10th November 2017)

ग्रामीण कृषि मौसम सेवा



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

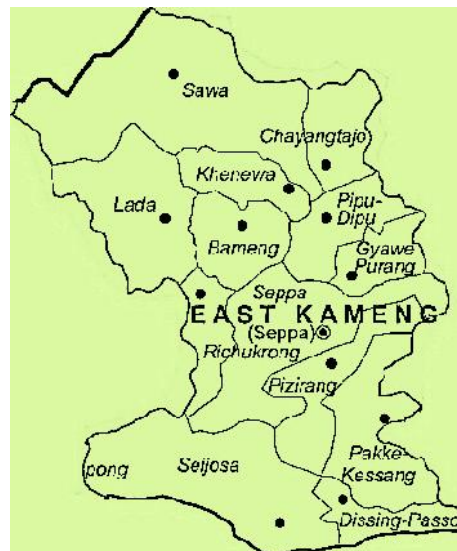


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: East Kameng

No: 89/2017/Tue

Dated: 7th November, 2017



Weather summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Rainfall = 0.0 mm (up to 3 rd 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:	<ul style="list-style-type: none"> Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> • Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Sowing		<ul style="list-style-type: none"> • 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 1st fortnight of Nov. for better yield
Soybean	Harvesting		<ul style="list-style-type: none"> • Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> • Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. • 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/chloripyrifos@1-2ml/lit. • 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 sticker
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> • On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water • Do not disturb the soil structure by spading/hoeing in the field. • Hand weeding with care is recommended.
Pulses	Flowering	Blister beetle	<ul style="list-style-type: none"> • 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 style="list-style-type: none"> • <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> • Weeding of the standing crop may be done, • Monitoring of standing crops against attack of insect pests and diseases.
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> • Farmers are advised to prepare field for sowing of potato, • 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 Chlorpyrifos @ 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
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> • In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. • 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 fosetyl AI paste.
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> • Mulching with locally available materials like dry grass/paddy straw recommended • Remove diseased part & keep inflorescence clean. • Uproot & burn virus infected plants
Pineapple	Active vegetative		<ul style="list-style-type: none"> • Mulching with locally available materials like dry grass/paddy straw recommended • Remove excess suckers to increase fruit size and improve quality.

Banana	Bunching & planting		<ul style="list-style-type: none">• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.• Remove the male flower in banana bunches to attain better finger/fruit size.• Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.
Ginger/Turmeric	Seedling		<ul style="list-style-type: none">• Mulching with locally available materials like dry grass/paddy 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
Orchards			<ul style="list-style-type: none">• Prepare half moon terraces in fruit crops (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
Agroforestry			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General			
<ul style="list-style-type: none">• 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,			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none">• 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 FMD• 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			<ul style="list-style-type: none">• 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
Poultry	All stages		<ul style="list-style-type: none">• 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.<ul style="list-style-type: none">➤ 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 style="list-style-type: none">• <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u>• Provide UMB/Molases if possible in the feed• Provide 10-30 ml of vitamin B-Complex in feed• 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision• Separate sick animals• The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves• Long hair near the udder/stomach/back legs should be teamed

			short.
Mithun		FMD	<ul style="list-style-type: none">• 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			

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

Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 8th to 10th November 2017)

ग्रामीण कृषि मौसम सेवा

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(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 summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Rainfall: 0.4 mm; T. Max: 30.0°C; T. Min: 19.0°C ; RH: 62-84% (up to 3 rd Oct)	Generally clear/dry weather forecasted. Daily maximum and 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:	<ul style="list-style-type: none">Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Pea	Sowing		<ul style="list-style-type: none"> 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 1st fortnight of Nov. for better yield
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. 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. 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 sticker
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
Pulses	Flowering	Blister beetle	<ul style="list-style-type: none"> 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 style="list-style-type: none"> On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water Do not disturb the soil structure by spading/hoeing in the field. Hand weeding with care is recommended.
VEGETABLES			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> Farmers are advised to prepare field for sowing of potato, 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, Normal weight of potato-25-30 grams Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul style="list-style-type: none"> On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
Tomato	Fruiting		<ul style="list-style-type: none"> Removing sideshoots is an important job which prevents the fruits being shaded by leaves. As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Ginger/turmeric	Vegetative stage	Soft Rot	<ul style="list-style-type: none"> Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers

			<ul style="list-style-type: none"> For management of soft rot in ginger: Need based drenching of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. 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 fosetyl AI paste.
Pineapple	Sowing		<ul style="list-style-type: none"> 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 + Chlorpyrifos 20EC@ 2ml/lit of water to protect against soil borne disease and insect.
Guava	Fruit Development	Fruit fly	<ul style="list-style-type: none"> Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Banana	Fruiting/ Ripening		<ul style="list-style-type: none"> 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 infection) & Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants.
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> 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 style="list-style-type: none"> On prolong rain, provide sugar syrup
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General			
<ul style="list-style-type: none"> 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, 			
Goat	All stages		<ul style="list-style-type: none"> Deworming for gastrointestinal parasite
Fishery			<ul style="list-style-type: none"> 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
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> 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 FMD 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 style="list-style-type: none"> 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. <ul style="list-style-type: none"> ➤ 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. <ul style="list-style-type: none">Remove wet litter
Cattle	All stages	FMD	<ul style="list-style-type: none"><u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u>Provide UMB/Molases if possible in the feedProvide 10-30 ml of vitamin B-Complex in feed1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervisionSeparate sick animalsThe animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leavesLong hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	<ul style="list-style-type: none">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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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 summary of the previous week	Weather forecast valid up to 12 th 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

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none">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 style="list-style-type: none"><u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u>Harvest mature cobs and dry properly before storingUse locally available traps to control rats menace
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none">Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.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 sticker
Jhum rice	Harvesting		<ul style="list-style-type: none">Immediate harvesting of left-over rice advocatedProper sun drying before storage.
VEGETABLES			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"><u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u>Weeding of the standing crop may be done,Monitoring of standing crops against attack of insect pests and diseases.
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none">Farmers are advised to prepare field for sowing of potato,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,Normal weight of potato-25-30 gramsSpacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none">Transplanting of healthy seedlings may be done in well prepared field,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
Okra	Maturing	Pod borer	<ul style="list-style-type: none">Harvesting and marketing of tender okra fruits,Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"><u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u><u>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</u>Mulching should be done with locally available mulch,Earthing up of exposed rhizome,
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none">In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water.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 fosetyl AI paste.
Banana	Bunching	Cold	<ul style="list-style-type: none">Cover newly emerged bunches with locally available sack to protect from cold/frost
Kiwi	Harvesting		<ul style="list-style-type: none">Should be harvested by snapping their stalksFruit should be stored boxes containing cushioning materials and transported to the market in hard condition.
Pineapple	Sowing		<ul style="list-style-type: none">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/lit of water to protect against soil borne disease and insect.
Large Cardamom	Flowering stage	Chirkey Disease (fungal infection) & Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
Ginger/Turmeric	Vegetative		<ul style="list-style-type: none"> 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			
			<ul style="list-style-type: none"> Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
General			
<ul style="list-style-type: none"> 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, 			
Livestock	Stage	Disease	Precautionary Practices to be followed
Cattle	All stages	FMD	<ul style="list-style-type: none"> <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> Protect the new born from cold, Avoid dampness at dry area, Store freshly cut paddy straw (To use as feed during lean months) 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> 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 FMD 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			<ul style="list-style-type: none"> 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
Poultry	All stages		<ul style="list-style-type: none"> Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Provide adequate clean drinking water+electrolyte and multi-vitamins Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> ➤ 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
Mithun		FMD	<ul style="list-style-type: none"> 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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(Period: 8th to 10th November 2017)

ग्रामीण कृषि मौसम सेवा



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

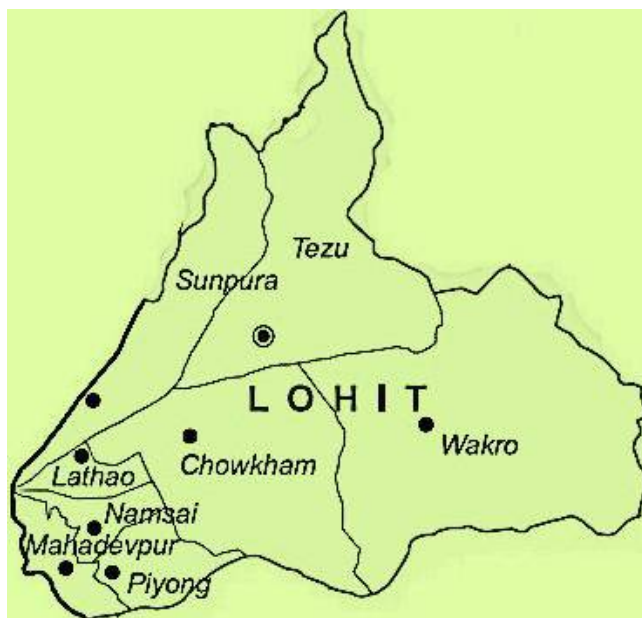


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Lohit

No: 89/2017/Tue

Dated: 7th November, 2017



Weather summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Rainfall = 4.0 mm (up to 3 rd Oct)	Generally clear/dry weather forecasted. Daily maximum and 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:	<ul style="list-style-type: none">Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> 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 style="list-style-type: none"> <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
Pea	Sowing		<ul style="list-style-type: none"> 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 1st fortnight of Nov. for better yield
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. 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. 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 sticker
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
Pulses	Flowering	Blister beetle	<ul style="list-style-type: none"> 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 style="list-style-type: none"> Farmers are advised to prepare field for sowing of potato, 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, 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/ Transplanting		<ul style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul style="list-style-type: none"> On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
Tomato	Fruiting		<ul style="list-style-type: none"> Removing sideshoots is an important job which prevents the fruits being shaded by leaves. Provide shed to protect from excessive rainfall
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. 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 fosefly AI paste.
Pineapple	Sowing		<ul style="list-style-type: none"> Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material.

			<ul style="list-style-type: none"> Sucker dipping treatment with Bavistin @ 3g + Chlorpyrifos 20EC@ 2ml/lit of water to protect against soil borne disease and insect.
Guava	Fruit Development	Fruit fly	<ul style="list-style-type: none"> Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Banana	Fruiting/Ripening		<ul style="list-style-type: none"> Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.
Ginger/Turmeric	Active vegetative		<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended
Honey Bees			
Honey bees			<ul style="list-style-type: none"> Provide sugar syrup near the box Add insulation and ventilation systems
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General <ul style="list-style-type: none"> 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, 			
Goat	All stages		<ul style="list-style-type: none"> Deworming for gastrointestinal parasite
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> 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 FMD 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			<ul style="list-style-type: none"> 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
Poultry	All stages		<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> ➤ 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 style="list-style-type: none"> <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) 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 03795-226237/226247			

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

Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 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 summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Rainfall = 3.6 mm (Roing) (up to 3 rd Oct)	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

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Sowing		<ul style="list-style-type: none"> 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 1st fortnight of Nov. for better yield
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. 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. 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 sticker
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water Do not disturb the soil structure by spading/hoeing in the field. Hand weeding with care is recommended.
VEGETABLES			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> Farmers are advised to prepare field for sowing of potato, 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, Normal weight of potato-25-30 grams Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul style="list-style-type: none"> On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. 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 fosetyl AI paste.
Guava	Fruit Development	Fruit fly	<ul style="list-style-type: none"> Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Pineapple	Sowing		<ul style="list-style-type: none"> Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material.

			<ul style="list-style-type: none"> Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.
Banana	Fruiting/ Ripening		<ul style="list-style-type: none"> 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 style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
Orchards			<ul style="list-style-type: none"> Prepare half moon terraces in fruit crops (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
Honey Bees			
Honey bees			<ul style="list-style-type: none"> Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General <ul style="list-style-type: none"> 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, 			
Goat	All stages		<ul style="list-style-type: none"> Deworming for gastrointestinal parasite
Poultry	All stages		<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> ➤ 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 membrane of the mouth and foot.)	<ul style="list-style-type: none"> Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water
Fishery			<ul style="list-style-type: none"> 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
Cattle	All stages	FMD	<ul style="list-style-type: none"> <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) 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 03795-226237/226247

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**Agrometeorological Field Unit
ICAR, BASAR**

कृषि मौसम सलाहकार सेवा पत्रिका

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 summary of the previous week	Weather forecast valid up to 12 th 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:	<ul style="list-style-type: none">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			
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Sowing		<ul style="list-style-type: none"> 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 1st fortnight of Nov. for better yield
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. 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. 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 sticker
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water Do not disturb the soil structure by spading/hoeing in the field. Hand weeding with care is recommended.
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
Pulses	Flowering	Blister beetle	<ul style="list-style-type: none"> Application of fertilizers and spray operations to be 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 style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> Farmers are advised to prepare field for sowing of potato, 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, Normal weight of potato-25-30 grams Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> Transplanting of healthy seedlings may be done in well prepared field, 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
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u> <u>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</u> Mulching should be done with locally available mulch, Earthing up of exposed rhizome,

HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. 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 fosetyl AI paste.
Banana	Bunching	Cold	<ul style="list-style-type: none"> Cover newly emerged bunches with locally available sack to protect from cold/frost
Kiwi	Harvesting		<ul style="list-style-type: none"> Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.
Pineapple	Sowing		<ul style="list-style-type: none"> 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 + Chlorpyrifos 20EC@ 2ml/l of water to protect against soil borne disease and insect.
Guava	Fruit Development	Fruit fly	<ul style="list-style-type: none"> Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Proper drainage to be done and avoid water stagnation
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. . Uproot & burn virus infected plants
Orchards			<ul style="list-style-type: none"> Prepare half moon terraces in fruit crops (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
Agroforestry			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
Honey Bees			
Honey bees			<ul style="list-style-type: none"> Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General <ul style="list-style-type: none"> 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, 			
Cattle	All stages	FMD	<ul style="list-style-type: none"> <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> Protect the new born from cold, Avoid dampness at dry area, Store freshly cut paddy straw (To use as feed during lean months) 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> 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 FMD 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 style="list-style-type: none">• Provide preventive dose of anti-coccidial drugs to poultry.• 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.<ul style="list-style-type: none">➤ 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
Fishery			<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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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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 summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Rainfall: 10.6 mm; T. Max: 32.0°C; T. Min: 15.0°C ; RH: 63-80% (up to 3 rd 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 83-94% and 29-40% respectively. Expected wind direction mainly WNW with speed range of 5 kmph.
Warning:	<ul style="list-style-type: none">Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. 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 fosetyl AI paste.
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Sowing		<ul style="list-style-type: none"> 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 1st fortnight of Nov. for better yield
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. 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. 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 sticker
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
VEGETABLES			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> Farmers are advised to prepare field for sowing of potato, 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, Normal weight of potato-25-30 grams Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul style="list-style-type: none"> On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
Tomato	Fruiting		<ul style="list-style-type: none"> Removing sideshoots is an important job which prevents the fruits being shaded by leaves. Provide shed to protect from excessive rainfall
Summer Vegetables	Multiple stages		<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Use pheromone traps/light traps against brinjal shoot and fruit borer. New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.

Ginger/turmeric	Vegetative stage	Soft Rot	<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers For management of soft rot in ginger: Need based drenching of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> 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. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, 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.
Pineapple	Sowing		<ul style="list-style-type: none"> 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/lit of water to protect against soil borne disease and insect.
Guava	Fruit Development	Fruit fly	<ul style="list-style-type: none"> Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Banana	Fruiting/ Ripening		<ul style="list-style-type: none"> Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy 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
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
Orchards			<ul style="list-style-type: none"> Prepare half moon terraces in fruit crops (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
Honey Bees			
Honey bees			<ul style="list-style-type: none"> Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General			
<ul style="list-style-type: none"> 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, 			
Goat	All stages		<ul style="list-style-type: none"> Deworming for gastrointestinal parasite
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> 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 FMD

		Swine Fever	<ul style="list-style-type: none"> • 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 style="list-style-type: none"> • 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
Fishery			<ul style="list-style-type: none"> • 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
Cattle	All stages	FMD	<ul style="list-style-type: none"> • <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> • Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision • Separate sick animals • The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	<ul style="list-style-type: none"> • 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			

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

Agrometeorological Field Unit
 ICAR. BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 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 summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Rainfall = 10.0 mm (up to 3 rd 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:	<ul style="list-style-type: none">Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit. 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 sticker
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
VEGETABLES			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> Farmers are advised to prepare field for sowing of potato, 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, Normal weight of potato-25-30 grams Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> Transplanting of healthy seedlings may be done in well prepared field, 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
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u> <u>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</u> Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. 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 foseitly AI paste.
Kiwi	Harvesting		<ul style="list-style-type: none"> Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.
Pineapple	Sowing		<ul style="list-style-type: none"> 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/lit of water to protect against soil borne disease and insect.
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus	<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants

		infection)	
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> • Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Orchards			<ul style="list-style-type: none"> • Prepare half moon terraces in fruit crops (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
Honey Bees			
Honey bees			<ul style="list-style-type: none"> • Provide sugar syrup near the box • Add insulation and ventilation systems
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General			
<ul style="list-style-type: none"> • 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, 			
Cattle	All stages	FMD	<ul style="list-style-type: none"> • <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> • Protect the new born from cold, • Avoid dampness at dry area, • Store freshly cut paddy straw (To use as feed during lean months) • 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision • Separate sick animals
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> • 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 FMD • 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			<ul style="list-style-type: none"> • 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
Poultry	All stages		<ul style="list-style-type: none"> • Provide preventive dose of anti-coccidial drugs to poultry. • 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. <ul style="list-style-type: none"> ➤ 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
Mithun		FMD	<ul style="list-style-type: none"> • 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			

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 8th to 10th November 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

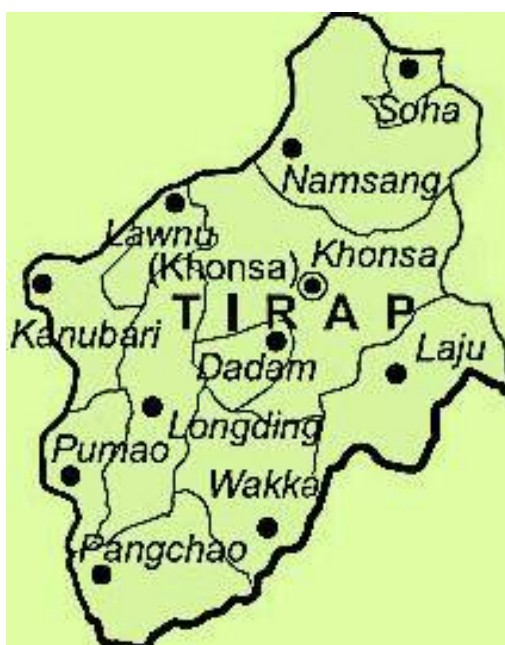


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Tirap

No: 89/2017/Tue

Dated: 7th November, 2017



Weather summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Rainfall = 0.0 mm (up to 3 rd 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:	<ul style="list-style-type: none">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 style="list-style-type: none"> Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Sowing		<ul style="list-style-type: none"> 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 1st fortnight of Nov. for better yield
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. 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. 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 sticker
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
VEGETABLES			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> Farmers are advised to prepare field for sowing of potato, 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, Normal weight of potato-25-30 grams Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Tomato	Fruiting		<ul style="list-style-type: none"> Removing sideshoots is an important job which prevents the fruits being shaded by leaves. Provide shed to protect from excessive rainfall
Summer Vegetables	Multiple stages		<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Use pheromone traps/light traps against brinjal shoot and fruit borer. New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers For management of soft rot in ginger: Need based drenching of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. 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

			fosetly AI paste.
Pineapple	Sowing		<ul style="list-style-type: none"> 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/ltr of water to protect against soil borne disease and insect.
Guava	Fruit Development	Fruit fly	<ul style="list-style-type: none"> Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Banana	Fruiting/Ripening		<ul style="list-style-type: none"> 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 infection) & Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
Orchards			<ul style="list-style-type: none"> Prepare half moon terraces in fruit crops (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
Honey Bees			
			<ul style="list-style-type: none"> Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General <ul style="list-style-type: none"> 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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> 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 FMD 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 style="list-style-type: none"> 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. <ul style="list-style-type: none"> ➤ 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 style="list-style-type: none"> <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals

			<ul style="list-style-type: none">• The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves• Long hair near the udder/stomach/back legs should be teamed short.
Fishery			<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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.
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**Agrometeorological Field Unit
ICAR, BASAR**

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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)



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

District: Upper Siang

No: 89/2017/Tue

Dated: 7th November, 2017



Weather summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Rainfall = 10.4 mm (up to 3 rd 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:	<ul style="list-style-type: none">Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> • Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. • 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. • 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
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> • <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> • Harvest mature cobs and dry properly before storing • Use locally available traps to control rats menace
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> • On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water • Do not disturb the soil structure by spading/hoeing in the field. • Hand weeding with care is recommended.
VEGETABLES			
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> • Transplanting of healthy seedlings may be done in well prepared field, • 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
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> • <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> • Weeding of the standing crop may be done, • Monitoring of standing crops against attack of insect pests and diseases.
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> • Farmers are advised to prepare field for sowing of potato, • 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, • Normal weight of potato-25-30 grams • Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> • Harvesting and marketing of tender okra fruits, • Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> • <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u> • <u>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</u> • Mulching should be done with locally available mulch, • Earthing up of exposed rhizome,
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> • In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. • 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 fosetly AI paste.
Banana	Bunching	Cold	<ul style="list-style-type: none"> • Cover newly emerged bunches with locally available sack to protect from cold/frost
Kiwi	Harvesting		<ul style="list-style-type: none"> • Should be harvested by snapping their stalks • Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.

Pineapple	Sowing		<ul style="list-style-type: none"> 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/lit of water to protect against soil borne disease and insect.
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> 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 style="list-style-type: none"> Box must be covered with straw/dry leaves to provide warmth Provide sugar syrup
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General <ul style="list-style-type: none"> 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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> 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 FMD 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 style="list-style-type: none"> Provide preventive dose of anti-coccidial drugs to poultry. 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. <ul style="list-style-type: none"> ➤ 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 style="list-style-type: none"> <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> Protect the new born from cold, Avoid dampness at dry area, Store freshly cut paddy straw (To use as feed during lean months) 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals
Fishery			<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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			

Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 8th to 10th November 2017)

ग्रामीण कृषि मौसम सेवा



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

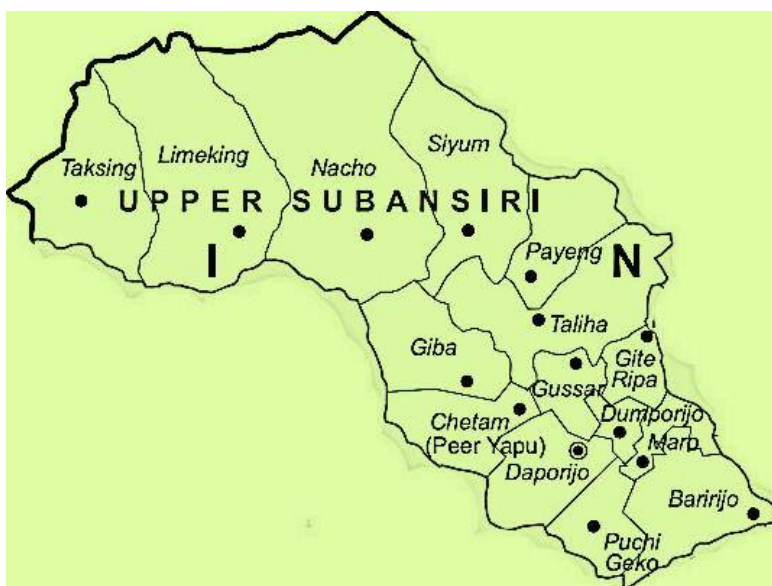


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Upper Subansiri

No: 89/2017/Tue

Dated: 7th November, 2017



Weather summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Daporijo: 0.0 mm (up to 3 rd Oct)	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	<ul style="list-style-type: none">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 style="list-style-type: none"> 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 1st fortnight of Nov. for better yield
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. 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. 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 sticker
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
VEGETABLES			
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> Farmers are advised to prepare field for sowing of potato, 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, Normal weight of potato-25-30 grams Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> Transplanting of healthy seedlings may be done in well prepared field, 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
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u> <u>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</u> Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. 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 foseetyl AI paste.
Banana	Bunching	Cold	<ul style="list-style-type: none"> Cover newly emerged bunches with locally available sack to protect from cold/frost

Pineapple	Sowing		<ul style="list-style-type: none"> 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/lit of water to protect against soil borne disease and insect.
Kiwi	Vegetative		<ul style="list-style-type: none"> Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
Orchards			<ul style="list-style-type: none"> Prepare half moon terraces in fruit crops (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
Honey Bees			
Honey bees			<ul style="list-style-type: none"> Provide sugar syrup near the box Add insulation and ventilation systems
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General			
<ul style="list-style-type: none"> 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, 			
Cattle	All stages	FMD	<ul style="list-style-type: none"> <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> Protect the new born from cold, Avoid dampness at dry area, Store freshly cut paddy straw (To use as feed during lean months) 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals
Poultry	All stages		<ul style="list-style-type: none"> Provide preventive dose of anti-coccidial drugs to poultry. 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. <ul style="list-style-type: none"> ➤ 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
Fishery			<ul style="list-style-type: none"> 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
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> 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 FMD Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Mithun		FMD	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none">• 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			

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

Agrometeorological Field Unit
ICAR. BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 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 summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Rainfall = Bomdila: 0.0 ; Bhalukpong: 2.2 mm (up to 3 rd Oct)	Generally clear/dry weather forecasted. Daily maximum and 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:	<ul style="list-style-type: none">Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> • <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> • Harvest mature cobs and dry properly before storing • Use locally available traps to control rats menace
Pea	Sowing		<ul style="list-style-type: none"> • 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 1st fortnight of Nov. for better yield
Soybean	Harvesting		<ul style="list-style-type: none"> • Immediately harvest soybean & thoroughly dry in sun.
Rice	Milking/seed formation	Gundhi bug/ leaf folder/ rice skipper	<ul style="list-style-type: none"> • <u>Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage.</u> • <u>Alternate drying and wetting of field is highly desirable in WRC field</u> • Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit. • 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 sticker
Groundnut	Pegging	Leaf Spot/tikka disease	<ul style="list-style-type: none"> • On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water • Do not disturb the soil structure by spading/hoeing in the field. • Hand weeding with care is recommended.
VEGETABLES			
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> • Transplanting of healthy seedlings may be done in well prepared field, • 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
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> • Harvesting and marketing of tender okra fruits, • Collection and destruction of borer damaged pod,
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> • <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> • Weeding of the standing crop may be done, • Monitoring of standing crops against attack of insect pests and diseases.
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> • <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u> • <u>To manage the disease, provide adequate drainage and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/ neem cake.</u> • Mulching should be done with locally available mulch, • Earthing up of exposed rhizome,
HORTICULTURAL CROPS			
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> • In case of citrus psylla attack, spray Monocrotophos @ 0.7ml or dimethoate 1.5 ml or Quinalphos 1 ml per liter of water. • 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 fosefly AI paste.
Banana	Bunching	Cold	<ul style="list-style-type: none"> • Cover newly emerged bunches with locally available sack to protect from cold/frost
Kiwi	Harvesting		<ul style="list-style-type: none"> • Should be harvested by snapping their stalks • Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.
Pineapple	Sowing		<ul style="list-style-type: none"> • 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/lit of water to protect against soil borne disease

			and insect.
Orchards			<ul style="list-style-type: none"> • Prepare half moon terraces in fruit crops (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
Apple	Vegetative	Wooly aphids	<ul style="list-style-type: none"> • Swab the stem with mineral oil against wooly aphid.
Honey Bees			
Honey bees			<ul style="list-style-type: none"> • Provide sugar syrup near the box • Add insulation and ventilation systems
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General <ul style="list-style-type: none"> • 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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> • 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 FMD • 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			<ul style="list-style-type: none"> • 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
Poultry	All stages		<ul style="list-style-type: none"> • Provide preventive dose of anti-coccidial drugs to poultry. • 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. <ul style="list-style-type: none"> ➤ 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 style="list-style-type: none"> • <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u> • Protect the new born from cold, • Avoid dampness at dry area, • Store freshly cut paddy straw (To use as feed during lean months) • 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision • Separate sick animals
Mithun		FMD	<ul style="list-style-type: none"> • 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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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 summary of the previous week	Weather forecast valid up to 12 th Nov'2017
Basar: Rainfall = 0.0 mm. T. Max: 26.3°C, T. Min: 11.5°C, RH: 51-96%, Wind Speed: 4-7 kmph, Wind Direction: ENE & NW	Generally clear/dry weather forecasted. Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 15-16°C respectively. Expected morning and evening relative humidity will be 81-94% and 17-21% respectively. Wind direction is mainly W with speed range of 4-6 kmph.
Warning:	<ul style="list-style-type: none">Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
Black Gram & Green Gram	Vegetative		<ul style="list-style-type: none"> Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Sowing		<ul style="list-style-type: none"> Treat pea with rhizobium@2gm/kg seed before sowing
Maize	CRI or tasseling stage/ Harvesting	Rat	<ul style="list-style-type: none"> <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u> Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
Rice	Dough Grain filling stage	Gundhi bug	<ul style="list-style-type: none"> Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. Alternate drying and wetting of field is highly desirable in WRC field Monitor crop against attack of gundhi bug, Weeding is advised to ward off the alternate host of gundhi bug Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit. Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper & leaf folder using sticker
VEGETABLES			
Rabi vegetables	Sowing/ Transplanting		<ul style="list-style-type: none"> <u>After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.</u> Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Potato	Field preparation/ sowing	Red Ants/ Cutworm	<ul style="list-style-type: none"> Farmers are advised to prepare field for sowing of potato, 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, Normal weight of potato-25-30 grams Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> Transplanting of healthy seedlings may be done in well prepared field, 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
Okra	Maturing	Pod borer	<ul style="list-style-type: none"> Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul style="list-style-type: none"> <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u> <u>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.</u> Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul style="list-style-type: none"> On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
HORTICULTURAL CROPS			
Citrus	Fruit development	Fruit Drop Fruit Fly	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> • 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 fosetly AI paste.
Banana	Bunching	Cold	<ul style="list-style-type: none"> • Cover newly emerged bunches with locally available sack to protect from cold/frost
Kiwi	Harvesting		<ul style="list-style-type: none"> • Should be harvested by snapping their stalks • Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.
Pineapple	Sowing		<ul style="list-style-type: none"> • 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/ltr of water to protect against soil borne disease and insect.
Guava	Fruit Development	Fruit fly	<ul style="list-style-type: none"> • Basin cleaning and manuring • Install fruit fly pheromone traps for collection and destruction of the adult insects
Ginger/Turmeric	Seedling		<ul style="list-style-type: none"> • Mulching with locally available materials like dry grass/paddy straw recommended • Proper drainage to be done and avoid water stagnation
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul style="list-style-type: none"> • Mulching with locally available materials like dry grass/paddy straw recommended • Remove diseased part & keep inflorescence clean. • Uproot & burn virus infected plants
Orchards			<ul style="list-style-type: none"> • Prepare half moon terraces in fruit crops (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
Honey Bees			
Honey bees			<ul style="list-style-type: none"> • Box must be covered with straw/dry leaves to provide warmth • Provide sugar syrup
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General			
<ul style="list-style-type: none"> • 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, 			
Goat	All stages		<ul style="list-style-type: none"> • Deworming for gastrointestinal parasite
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> • 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 FMD • 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			<ul style="list-style-type: none"> • 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
Poultry	All stages		<ul style="list-style-type: none"> • Provide preventive dose of anti-coccidial drugs to poultry. • 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. <ul style="list-style-type: none"> ➤ 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. <ul style="list-style-type: none">• Remove wet litter
Cattle	All stages	FMD	<ul style="list-style-type: none">• <u>In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.</u>• Protect the new born from cold,• Avoid dampness at dry area,• Store freshly cut paddy straw (To use as feed during lean months)• 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision• Separate sick animals
Mithun		FMD	<ul style="list-style-type: none">• 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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