

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



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



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

District: Anjaw

No: 97/2017/Tue

Dated: 5th December, 2017



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

Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
No weather summary available	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 22-24°C and 09-10°C respectively. Expected morning and evening relative humidity will be 73-88% and 22-38% respectively. Wind direction is mainly SE at a speed range of 4-8 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	Vegetative	Cut-worm	<ul style="list-style-type: none"> Regular monitoring of crop against attack of cutworm is advised,
Rice	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage. In case of rain delay harvesting
Black Gram & Green Gram	Vegetative	Powdery mildew	<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			
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> Light irrigation is essential, In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops.
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none"> Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight.
HORTICULTURAL CROPS			
Banana	Bunching	Cold	<ul style="list-style-type: none"> Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Pineapple	Harvesting/ Sowing		<ul style="list-style-type: none"> Clean the vicinity of plants by weeding and loosen up the soil. After winter harvest, collection/Selection of suckers & slip to be done for next season planting.
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
Poultry	All stages		<ul style="list-style-type: none"> Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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"> Provide proper bedding materials especially to new-born piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none"> Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones,

			<ul style="list-style-type: none">• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)• Provide feed supplements
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			

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)

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Agro-met Advisory Bulletin

(Period: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



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



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

District: Changlang

No: 97/2017/Tue

Dated: 5th December, 2017



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

Weather summary of the previous week	Weather forecast valid up to 6 th Dec'2017
Rainfall = Changlang: 0.0 mm Miao: 0.0 mm	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 24-26°C and 12-13°C respectively. Expected morning and evening relative humidity will be 79-83% and 22-34% respectively. Wind direction is mainly ESE 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 polyhouses for year round cultivation of vegetables**
- **Obtain seeds from reputed/certified/reliable source**
- **Use fertilizers/pesticides as per recommended doses for the location**
- **Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides**
- **ICAR Basar recommend poultry variety VANARAJA for backyard rearing**

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage. In case of rain delay harvesting
Pea	Vegetative	Cut-worm	<ul style="list-style-type: none"> Regular monitoring of crop against attack of cutworm is advised, Spray neem-based insecticides against leaf eating insects
Black Gram & Green Gram	Vegetative	Powdery mildew	<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			
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> Light inter-culture operations is advised, Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.
Potato	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,
Tomato	Fruiting		<ul style="list-style-type: none"> Removing side shoots is an important job which prevents the fruits being shaded by leaves. Provide shed to protect from frost
HORTICULTURAL CROPS			
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate
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/lt of water to protect against soil borne disease and insect.
Guava	Harvisting	Fruit fly	<ul style="list-style-type: none"> Harvest with care and store in dry places Install fruit fly pheromone traps for collection and destruction of the adult 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	Vegetative		<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended to retain soil moisture
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"> Provide proper bedding materials especially to new-born piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmentic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none"> Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Poultry	All stages		<ul style="list-style-type: none"> Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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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ग्रामीण कृषि मौसम सेवा



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



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

District: Dibang Valley

No: 97/2017/Tue

Dated: 5th December, 2017



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

Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm (Anini)	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 19-21°C and 07-08°C respectively. Expected morning and evening relative humidity will be 85-87% and 22-34% respectively. Wind direction is mainly S 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
- Go for spray operation only on dry/clear weather.
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage. In case of rain delay harvesting
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	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> Provide irrigation to plants Mulching with locally available materials like straw/dray grass to retain soil moisture Spray neem-based pesticides against leaf eating insects
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	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, <u>Use neem-based insecticides against cut-worm</u>
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	<u>Cut worm</u>	<ul style="list-style-type: none"> Provide need-based irrigation 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.
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	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate
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/lt of water to protect against soil borne disease and insect.
Ginger/Turmeric	Vegetative		<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended 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"> Cover the boxes with locally available dry grass or straw 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"> • Provide proper bedding materials especially to new-born piglets and lukewarm food & water • Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system • Deworm with anti helmentic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight • In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none"> • Provide proper bedding materials especially to new-born and lukewarm food & water • Heavy mortality in cloven footed animals has been reported. • Supportive treatment of infected animals under supervision of veterinary department officials, • Avoid mixing of infected and healthy animals, • Keep infected animals separated from the healthy ones, • Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) • Provide feed supplements
Poultry	All stages		<ul style="list-style-type: none"> • Day old chick-Maintain warmth by lighting, • In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, • Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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: East Kameng

No: 97/2017/Tue

Dated: 5th December, 2017



Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm (up to 28 th Nov)	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 10-11°C respectively. Expected morning and evening relative humidity will be 72-83% and 35-39% respectively. Expected wind direction is mainly SSE 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

- 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			
Rice	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage. In case of rain delay harvesting
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.
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			
Cabbage/Cauliflower/Knolkhol/Others	Vegetative	Leaf eating caterpillars/Aphids	<ul style="list-style-type: none"> Light irrigation is essential, In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops.
Potato	Vegetative	Red Ants/Late blight	<ul style="list-style-type: none"> Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight.
HORTICULTURAL CROPS			
Banana	Bunching	Cold	<ul style="list-style-type: none"> Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
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.
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 feedingClean 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">Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined systemDeworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Poultry	All stages		<ul style="list-style-type: none">Day old chick-Maintain warmth by lighting,In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Cattle	All stages	FMD	<ul style="list-style-type: none">Heavy mortality in cloven footed animals has been reported.Supportive treatment of infected animals under supervision of veterinary department officials,Avoid mixing of infected and healthy animals,Keep infected animals separated from the healthy ones,Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)Provide feed supplements
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: East Siang

No: 97/2017/Tue

Dated: 5th December, 2017



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

Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall: 0.0 mm; T. Max: 28.0°C; T. Min: 16.0°C ; RH: 58-77%	Generally clear/dry weather forecasted. Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 14-16°C respectively. Expected morning and evening relative humidity will be 78-84% and 28-36% respectively. Expected wind direction is mainly S 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

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage. In case of rain delay harvesting
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	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> Provide irrigation to plants Mulching with locally available materials like straw/dray grass to retain soil moisture Spray neem-based pesticides against leaf eating insects
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	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, <u>Use neem-based insecticides against cut-worm</u>
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	<u>Cut worm</u>	<ul style="list-style-type: none"> Provide need-based irrigation 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.
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	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate
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	Vegetative		<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended 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"> Cover the boxes with locally available dry grass or straw 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"> • Provide proper bedding materials especially to new-born piglets and lukewarm food & water • Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system • Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight • In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none"> • Provide proper bedding materials especially to new-born and lukewarm food & water • Heavy mortality in cloven footed animals has been reported. • Supportive treatment of infected animals under supervision of veterinary department officials, • Avoid mixing of infected and healthy animals, • Keep infected animals separated from the healthy ones, • Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) • Provide feed supplements
Poultry	All stages		<ul style="list-style-type: none"> • Day old chick-Maintain warmth by lighting, • In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, • Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



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



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

District: Kurung Kumey

No: 97/2017/Tue

Dated: 5th December, 2017



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

Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Past weather summary not available	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 19-21°C and 07-08°C respectively. Expected morning and evening relative humidity will be 85-87% and 22-34% respectively. Wind direction is mainly S with wind 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

- 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			
Rice	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage.
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
Jhum rice	Harvesting		<ul style="list-style-type: none"> Immediate harvesting of left-over rice advocated Proper sun drying before storage.
VEGETABLES			
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> Light irrigation is essential, In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops.
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none"> Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight.
HORTICULTURAL CROPS			
Banana	Bunching	Cold	<ul style="list-style-type: none"> Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
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 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
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> Provide proper bedding materials especially to new-born piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight

			<ul style="list-style-type: none">• In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none">• Provide proper bedding materials especially to new-born and lukewarm food & water• Heavy mortality in cloven footed animals has been reported.• Supportive treatment of infected animals under supervision of veterinary department officials,• Avoid mixing of infected and healthy animals,• Keep infected animals separated from the healthy ones,• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)• Provide feed supplements
Poultry	All stages		<ul style="list-style-type: none">• Day old chick-Maintain warmth by lighting,• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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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Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



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



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

District: Lohit

No: 97/2017/Tue

Dated: 5th December, 2017



Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 14-16°C respectively. Expected morning and evening relative humidity will be 78-84% and 28-36% respectively. Wind direction is mainly S 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

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			
Rice	Harvesting		<ul style="list-style-type: none">• Sun-dry & properly winnow the grains for safe storage.• In case of rain delay harvesting
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	Vegetative	Leaf eating insects	<ul style="list-style-type: none">• Provide irrigation to plants• Mulching with locally available materials like straw/dray grass to retain soil moisture• Spray neem-based pesticides against leaf eating insects
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	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none">• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,• <u>Use neem-based insecticides against cut-worm</u>
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	<u>Cut worm</u>	<ul style="list-style-type: none">• Provide need-based irrigation• 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.
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	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none">• Harvest the mature fruit with stalk and store in dry places.• Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.• Breakdown the soil collected around the tree trunk
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none">• One sword sucker may be allowed after shooting (Flowering),• Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,• Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate
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	Vegetative		<ul style="list-style-type: none">• Mulching with locally available materials like dry grass/paddy straw recommended• 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">• Cover the boxes with locally available dry grass or straw 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"> • Provide proper bedding materials especially to new-born piglets and lukewarm food & water • Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system • Deworm with anti helmentic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight • In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none"> • Provide proper bedding materials especially to new-born and lukewarm food & water • Heavy mortality in cloven footed animals has been reported. • Supportive treatment of infected animals under supervision of veterinary department officials, • Avoid mixing of infected and healthy animals, • Keep infected animals separated from the healthy ones, • Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) • Provide feed supplements
Poultry	All stages		<ul style="list-style-type: none"> • Day old chick-Maintain warmth by lighting, • In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, • Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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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Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



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

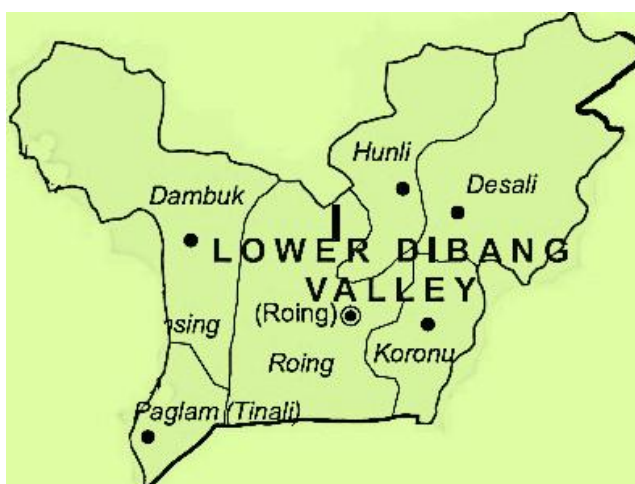


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Lower Dibang Valley

No: 97/2017/Tue

Dated: 5th December, 2017



Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm (Roing)	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 11-12°C respectively. Expected morning and evening relative humidity will be 84-85% and 34-40% respectively. Wind direction is mainly S 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

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage.
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	Vegetative	Leaf-eating insects	<ul style="list-style-type: none"> Provide irrigation to plants Spray neem-based insecticides against leaf eating insects
Soybean	Harvesting		<ul style="list-style-type: none"> Harvest soybean & thoroughly dry in sun.
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	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Spray neem-based insecticides against cut-worm
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> Light inter-culture operations is advised, Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.
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	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Banana	Multiple stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate
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
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 			

<ul style="list-style-type: none"> 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"> Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Poultry	All stages		<ul style="list-style-type: none"> Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultry shed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Cattle	All stages	FMD	<ul style="list-style-type: none"> Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Goat	All stages		<ul style="list-style-type: none"> Deworming for gastrointestinal parasite
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Agrometeorological Field Unit
 ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



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



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

District: Lower Subansiri

No: 97/2017/Tue

Dated: 5th December, 2017



Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = NA	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 11-12°C respectively. Expected morning and evening relative humidity will be 84-85% and 34-40% respectively. Wind direction is mainly S 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

- 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			
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> Light irrigation is essential, In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops.
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none"> Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight.
HORTICULTURAL CROPS			
Banana	Bunching	Cold	<ul style="list-style-type: none"> Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
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/lt 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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> Provide proper bedding materials especially to new-born piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none"> Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Poultry	All stages		<ul style="list-style-type: none"> Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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
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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Papum Pare

No: 97/2017/Tue

Dated: 5th December, 2017



Weather summary of the previous week	Weather forecast valid up to 6 th Dec'2017
Rainfall: 0.0 mm; T. Max: 29.0°C; T. Min: 13.0°C ; RH: 62-78%	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 12-13°C respectively. Expected morning and evening relative humidity will be 74-75% and 37-41% respectively. Expected wind direction mainly WNW & 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

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage.
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	Vegetative	Leaf-eating insects	<ul style="list-style-type: none"> Provide irrigation to plants Spray neem-based insecticides against leaf eating insects
Soybean	Harvesting		<ul style="list-style-type: none"> Immediately harvest soybean & thoroughly dry in sun.
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	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Spray neem-based insecticides against cut-worm
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> Light inter-culture operations is advised, Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.
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	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Banana	Multiple stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate
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
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)	<ul style="list-style-type: none"> Iron injection within 10 days of birth is advised to newly born

		and appearance of mucous membrane of the mouth and foot.) Swine Fever	<p>piglets if they are kept in confined system</p> <ul style="list-style-type: none">Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Poultry	All stages		<ul style="list-style-type: none">Day old chick-Maintain warmth by lighting,In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultry shed during night,Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Cattle	All stages	FMD	<ul style="list-style-type: none">Heavy mortality in cloven footed animals has been reported.Supportive treatment of infected animals under supervision of veterinary department officials,Avoid mixing of infected and healthy animals,Keep infected animals separated from the healthy ones,Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)Provide feed supplements
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: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



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



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

District: Tawang

No: 97/2017/Tue

Dated: 5th December, 2017



Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm	Partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 11-12°C and 04-05°C respectively. Expected morning and evening relative humidity will be 81-82% and 10-37% respectively. Wind direction is mainly W with probable speed range of 4-7 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
- 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	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage.
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	Vegetative	Red Ants	<ul style="list-style-type: none"> Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> Light irrigation is essential, In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops.
HORTICULTURAL CROPS			
Banana	Multiple stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> Cover the mature bunches with gunny bags to protect from cold and frost. One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,
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.
Apple	Post-harvesting		<ul style="list-style-type: none"> Pruning of dead and diseased branches advocated Apply Bordeaux paste after pruning
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 Cover the boxes with locally available dry grass 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"> Provide proper bedding materials especially to new-born piglets and lukewarm food & water Close all the ventilation in the house and cover with locally available dry straw/grass Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none"> Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Poultry	All stages		<ul style="list-style-type: none"> Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during

			night, <ul style="list-style-type: none">• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Tirap

No: 97/2017/Tue

Dated: 5th December, 2017



Weather summary of the previous week	Weather forecast valid up to 6 th Dec'2017
Rainfall = 0.0 mm	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 24-26°C and 12-13°C respectively. Expected morning and evening relative humidity will be 79-83% and 22-38% respectively. Wind direction is mainly variable with speed range of 4-8 kmph.
Warning:	<ul style="list-style-type: none">Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

- 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			
Rice	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage. In case of rain delay harvesting
Pea	Vegetative	Cut-worm	<ul style="list-style-type: none"> Regular monitoring of crop against attack of cutworm is advised, Spray neem-based insecticides against leaf eating insects
Black Gram & Green Gram	Vegetative	Powdery mildew	<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			
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	Wilting <u>Cut worm</u>	<ul style="list-style-type: none"> Light inter-culture operations is advised, Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.
Potato	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,
Tomato	Fruiting		<ul style="list-style-type: none"> Removing side shoots is an important job which prevents the fruits being shaded by leaves. Provide shed to protect from frost
HORTICULTURAL CROPS			
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate
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/lt of water to protect against soil borne disease and insect.
Guava	Harvisting	Fruit fly	<ul style="list-style-type: none"> Harvest with care and store in dry places Install fruit fly pheromone traps for collection and destruction of the adult 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	Vegetative		<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended to retain soil moisture
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">• Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system• Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight• In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Poultry	All stages		<ul style="list-style-type: none">• Day old chick-Maintain warmth by lighting,• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Cattle	All stages	FMD	<ul style="list-style-type: none">• Heavy mortality in cloven footed animals has been reported.• Supportive treatment of infected animals under supervision of veterinary department officials,• Avoid mixing of infected and healthy animals,• Keep infected animals separated from the healthy ones,• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)• Provide feed supplements
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: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Upper Siang

No: 97/2017/Tue

Dated: 5th December, 2017



Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 22-24°C and 09-10°C respectively. Expected morning and evening relative humidity will be 73-88% and 22-35% respectively. Wind direction is variable with speed range of 4-8 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 poly-houses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Harvesting		<ul style="list-style-type: none">• Sun-dry & properly winnow the grains for safe storage.• In case of rain delay harvesting
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	Vegetative	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none">• Light irrigation is essential,• In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.• Spray with neem based pesticides against aphids and painted bugs in cruciferous crops.
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none">• Ridge should be properly made,• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,• Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight.
HORTICULTURAL CROPS			
Banana	Bunching	Cold	<ul style="list-style-type: none">• Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none">• Harvest the mature fruit with stalk and store in dry places.• Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.• Breakdown the soil collected around the tree trunk
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/lt 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">• Provide proper bedding materials especially to new-born piglets and lukewarm food & water• Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system• Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight• In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none">• Provide proper bedding materials especially to new-born and lukewarm food & water

			<ul style="list-style-type: none">• Heavy mortality in cloven footed animals has been reported.• Supportive treatment of infected animals under supervision of veterinary department officials,• Avoid mixing of infected and healthy animals,• Keep infected animals separated from the healthy ones,• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)• Provide feed supplements
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">• Day old chick-Maintain warmth by lighting,• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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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Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



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

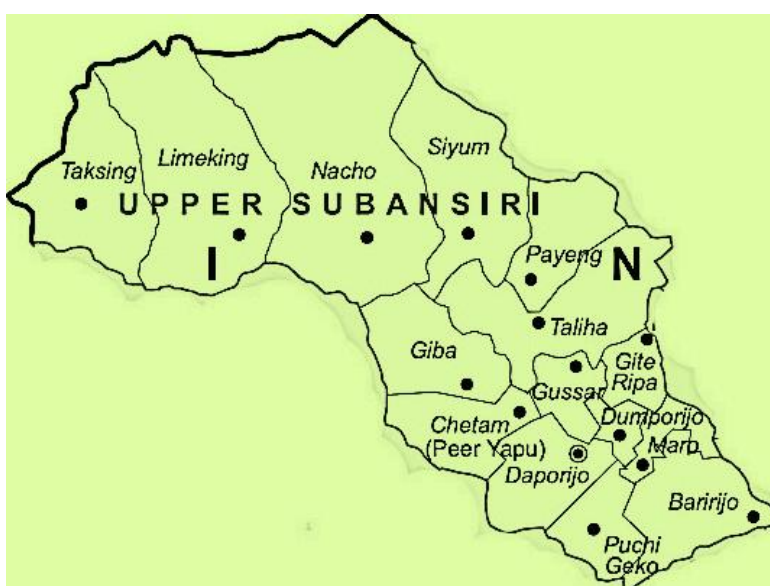


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Upper Subansiri

No: 97/2017/Tue

Dated: 5th December, 2017



Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Daporijo: 0.0 mm	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 26-27°C and 11-12°C respectively. Expected morning and evening relative humidity will be 78-81% and 32-38% respectively. Expected wind direction variable with speed range of 3-7 kmph.
Warning	<ul style="list-style-type: none">Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

- 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			
Rice	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage.
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.
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			
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none"> Light irrigation is essential, In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops.
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none"> Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight.
HORTICULTURAL CROPS			
Banana	Bunching	Cold	<ul style="list-style-type: none"> Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Kiwi	Vegetative		<ul style="list-style-type: none"> Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.
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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> Provide proper bedding materials especially to new-born piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none"> Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials,

			<ul style="list-style-type: none">• Avoid mixing of infected and healthy animals,• Keep infected animals separated from the healthy ones,• Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)• Provide feed supplements
Poultry	All stages		<ul style="list-style-type: none">• Day old chick-Maintain warmth by lighting,• In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night,• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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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Agrometeorological Field Unit
ICAR. BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



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



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

District: West Kameng

No: 97/2017/Tue

Dated: 5th December, 2017



Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = Bomdila: 0.0 ; Bhalukpong: 0.0 mm	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 19-21°C and 07-08°C respectively. Expected morning and evening relative humidity will be 85-87% and 22-34% respectively. Wind direction is mainly S 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			
Rice	Harvesting		<ul style="list-style-type: none">• Sun-dry & properly winnow the grains for safe storage.• In case of rain delay harvesting
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.
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	Vegetative	Leaf eating caterpillars/ Aphids	<ul style="list-style-type: none">• Light irrigation is essential,• In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.• Spray with neem based pesticides against aphids and painted bugs in cruciferous crops.
Potato	Vegetative	Red Ants/ Late blight	<ul style="list-style-type: none">• Ridge should be properly made,• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,• Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight.
HORTICULTURAL CROPS			
Banana	Bunching	Cold	<ul style="list-style-type: none">• Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none">• Harvest the mature fruit with stalk and store in dry places.• Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.• Breakdown the soil collected around the tree trunk
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"> • Provide proper bedding materials especially to new-born piglets and lukewarm food & water • Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system • Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight • In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none"> • Provide proper bedding materials especially to new-born and lukewarm food & water • Heavy mortality in cloven footed animals has been reported. • Supportive treatment of infected animals under supervision of veterinary department officials, • Avoid mixing of infected and healthy animals, • Keep infected animals separated from the healthy ones, • Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) • Provide feed supplements
Poultry	All stages		<ul style="list-style-type: none"> • Day old chick-Maintain warmth by lighting, • In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, • Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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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Agrometeorological Field Unit
 ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका Agro-met Advisory Bulletin

(Period: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



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



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

District: West Siang

No: 97/2017/Tue

Dated: 5th December, 2017



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

Weather summary of the previous week	Weather forecast valid up to 10 th Dec'2017
Basar: Rainfall = 0.0 mm. T. Max: 22.3°C, T. Min: 7.2°C, RH: 50-97%, Wind Speed: 3-6 kmph, Wind Direction: NW & SW	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 24-26°C and 12-13°C respectively. Expected morning and evening relative humidity will be 79-83% and 24-36% respectively. Wind direction is mainly ESE 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

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			
Rice	Harvesting		<ul style="list-style-type: none"> Sun-dry & properly winnow the grains for safe storage. In case of rain delay harvesting
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	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> Provide irrigation to plants Mulching with locally available materials like straw/dray grass to retain soil moisture Spray neem-based pesticides against leaf eating insects
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	Vegetative	Red Ants/ Cutworm	<ul style="list-style-type: none"> Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Use neem-based insecticides against cut-worm
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	<u>Cut worm</u>	<ul style="list-style-type: none"> Provide need-based irrigation 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.
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	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	<ul style="list-style-type: none"> Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate
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/lt of water to protect against soil borne disease and insect.
Ginger/Turmeric	Vegetative		<ul style="list-style-type: none"> Mulching with locally available materials like dry grass/paddy straw recommended 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"> Cover the boxes with locally available dry grass or straw 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"> • Provide proper bedding materials especially to new-born piglets and lukewarm food & water • Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system • Deworm with anti helminthic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight • In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	<ul style="list-style-type: none"> • Provide proper bedding materials especially to new-born and lukewarm food & water • Heavy mortality in cloven footed animals has been reported. • Supportive treatment of infected animals under supervision of veterinary department officials, • Avoid mixing of infected and healthy animals, • Keep infected animals separated from the healthy ones, • Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) • Provide feed supplements
Poultry	All stages		<ul style="list-style-type: none"> • Day old chick-Maintain warmth by lighting, • In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, • Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
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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