Agro-met Advisory Bulletin

(Period: 27th to 29th December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

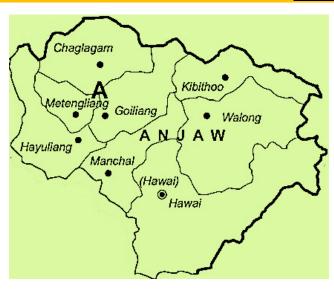


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Anjaw

No: 103/2017/Tue

Dated:26th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
No weather summary available	Generally clear/dry weather forecasted. Daily maximum and minimum temperature for the following period is predicted to be 20-21°C and 05-07°C respectively. Expected morning and evening relative humidity will be 78-85% and 17-22% respectively. Wind direction is mainly E and a speed range of 5-8 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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



Crop	Stage	Pest/Disease		Precautionary Practices to be followed
*			FIELD	CROPS
Mustard	Vegetative	White rust/ Downey mildew	•	Need-based foliar spray of Metalaxyl+Dithane M-45 @ 2.5g/lit at 15 days intervalfor management of White rust/Downy mildew in mustard
Pea	Vegetative	Cut-worm	•	Regular monitoring of crop against attack of cutworm is advised,
Rice	Harvesting		•	Sun-dry & properly winnow the grains for safe storage. In case of rain delay harvesting
Black Gram & Green Gram	Vegetative	Powdery mildew	•	Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
			VEGET	TABLES
Cabbage/	Maturity	Leaf eating	•	Light irrigation is essential,
Cauliflower/ Knolkhol/ Others		caterpillars/ Aphids	•	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
Potato	Vegetative	Red Ants/	•	Weeding and application of fertilizer as per recommended
Touro	Vegetative	Late blight	•	doses is suggested in potato. 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.
			FICULT	URAL CROPS
Banana	Bunching	Cold	•	Cover newly emerged bunches with locally available sack to protect from cold/frost Mulching with straw/crop residue at root zone to avoid frost injury in banana.
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	•	Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps 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		•	Clean the vicinity of plants by weeding and loosen up the soil. After winter harvest, collection/Selection of suckers & slip
Temperate fruits	After harvesting		•	to be done for next season planting. Training & pruning of the temperate crops (apple/pears/peach) is recommended
			LIVES	TOCKS
Livestock	Stage	Disease		Precautionary Practices to be followed
Poultry	All stages		•	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			•	Keep fish stoking density thin @1200/ha
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	•	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	•	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
Mithun	FMD	•	Polyvalent FMD vaccine with serotype O, A and Asia at 6
			months of age and repeat after that 6 months interval by
			sub-cutaneous route. Pregnant animals above 7 months of
			pregnancy should be avoided from vaccination.
Contact Sc	ientists (ICAR) or State Agril Staff o		aff for measures against adverse conditions or call at 03795-

Agro-met Advisory Bulletin

(Period: 27th to 29th December, 2017)

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

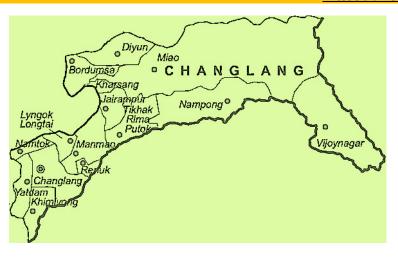


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Changlang

No: 103/2017/Tue

Dated:26th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
Rainfall = Changlang: 0.0 mm Miao: 0.0	Generally clear/dry weather forecasted. Daily maximum and
mm	minimum temperature for the following period is predicted to be 25-
	27°C and 11-13°C respectively. Expected morning and evening
	relative humidity will be 82-88% and 14-22% respectively. Wind
	direction is mainly E & ESE with speed range of 5-6 kmph.
Warning	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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



Crop	Stage	Pest/Disease	Precautionary Practices to be followed
Mustard	Vegetative	White rust/ Downey mildew	 Need-based foliar spray of Metalaxyl+Dithane M-45 @ 2.5g/lit at 15 days intervalfor management of White rust/Downy mildew in mustard
Rice	Harvesting		 Sun-dry & properly winnow the grains for safe storage. In case of rain delay harvesting
Pea	Vegetative	Cut-worm	 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	Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Maize	Harvesting	Rat	 Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace.
			VEGETABLES
Potato	Vegetative	Red Ants/ Late blight	 Weeding and application of fertilizer as per recommended doses is suggested in potato. 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.
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	 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
Tomato	Fruiting		 Removing side shoots is an important job which prevents the fruits being shaded by leaves. Provide shed to protect from frost
		HORT	ICULTURAL CROPS
Banana Citrus	Bunching Maturity/	Cold Fruit Drop	 Cover newly emerged bunches with locally available sack to protect from cold/frost Mulching with straw/crop residue at root zone to avoid frost injury in banana. Harvest the mature fruit with stalk and store in dry places.
	harvesting	Fruit Fly Gummosis	 Collect & dispose rotten fallen fruits/ install fruit-fly traps 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	Sowing		 Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.
Guava	Harvisting	Fruit fly	 Harvest with care and store in dry places Install fruit fly pheromone traps for collection and destruction of the adult insects
Large Cardamom	Fruiting	Chirkey Disease	Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
Ginger/Turmeric	Vegetative		Mulching with locally available materials like dry grass/paddy straw recommended to retain soil moisture
			Honey Bees
Honey bees			 Box must be covered with straw/dry leaves to provide warmth Provide sugar syrup
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed General
~ ~			the clock and water troughs/feeders should be regularly cleaned,

Goat	All stages		 Deworming for gastrointestinal parasite
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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	 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		 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. or KVK staff for measures against adverse conditions or call

at 03795-226237/226247

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(Period: 27th to 29th December, 2017)

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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: Dibang Valley

No: 103/2017/Tue

Dated:26th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 31st Dec'2017
Rainfall = 0.0 mm (Anini)	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 18-
	20°C and 05-06°C respectively. Expected morning and evening
	relative humidity will be 79-87% and 12-23% respectively. Wind
	direction is mainly SSE & 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

- 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
7.			FIELD CROPS
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.In case of rain delay harvesting
Black Gram & Green Gram	Vegetative		 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Vegetative	Leaf eating	Provide irrigation to plants
100	vegetative	insects	Mulching with locally available materials like straw/dray grass
			to retain soil moisture
			 Spray neem-based pesticides against leaf eating insects
Maize	Harvesting	Rat	Harvest mature cobs and dry properly before storing
			Use locally available traps to control rats menace VEGETABLES
Potato	Vegetative	Red Ants/	Weeding and application of fertilizer as per recommended
Totalo	v egetati ve	Late blight	doses is suggested in potato.
			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.
Cabbage/	Maturity	Leaf eating	Light irrigation is essential,
Cauliflower/		caterpillars/	• In present weather conditions severe attack of leaf eating
Knolkhol/		Aphids	caterpillars has been reported. Spray Azadirachtin(0.015%)
Others			@6ml/litre of water when weather is clear.
Ginger/turmeric	Vegetative stage	Rhizome rot	 Spray with neem based pesticides against aphids Under excessive moisture, there is every possibility of
Ginger/turmerie	vegetative stage	Kinzome fot	rhizome rot in ginger and turmeric.
			To manage the disease, provide adequate drainage and
			apply Trichoderma harzianum @ 50 g/bed along with
			FYM/ neem cake.
			 Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
		HORT	FICULTURAL CROPS
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to
			protect from cold/frost
			 Mulching with straw/crop residue at root zone to avoid frost injury in banana.
Temperate fruits	After harvesting		Training & pruning of the temperate crops (apple/pears/peach)
G':	N	E ' D	is recommended
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps
	nai vesting	Gummosis	 Collect & dispose rotten railer truits/ instan truit-ny traps Dead wood pruning may be done after harvesting of crop
			followed by spraying of fungicide, Carbendazim @ 1gm/lit of
			water.
		<i>α</i> 1.1. <i>Σ</i> 1	Breakdown the soil collected around the tree trunk
Large Cardamom	Fruiting	Chirkey Disease	• Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
Pineapple	Sowing		Clean the vicinity of plants by weeding and loosen up the soil.
			Remove sly and use it as a new planting material.
			• Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos
			20EC@ 2ml/lt of water to protect against soil borne disease
			and insect.
Honov boos			Honey Bees Cover the hoves with leadily evailable day gross or stroyy to
Honey bees			Cover the boxes with locally available dry grass or straw to provide warmth
			P-3
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
		<u> </u>	Precautionary Practices to be followed General be diverted for Poultry/livestock feeding

Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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	 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		 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	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.

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

Agro-met Advisory Bulletin

(Period: 27th to 29th 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: East Kameng

No: 103/2017/Tue

Dated:26th December, 2017



Weather summery of the previous week	Weather forecast valid up to 31st Dec'2017
Rainfall = 0.0 mm	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 23-
	25°C and 10-11°C respectively. Expected morning and evening
	relative humidity will be 84-85% and 19-23% respectively.
	Expected wind direction is mainly SE with speed range of 5 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Mustard	Vegetative	White rust/ Downey mildew	 Need-based foliar spray of Metalaxyl+Dithane M-45 @ 2.5g/lit at 15 days intervalfor management of White rust/Downy mildew in mustard
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.In case of rain delay harvesting
Black Gram & Green Gram	Vegetative		 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Sowing		 Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing Provide irrigation to plants
Soybean	Harvesting		 Complete sowing by 1st fortnight of Nov. for better yield Immediately harvest soybean & thoroughly dry in sun.
Pulses	Vegetative		irrigation and weeding advocated
			VEGETABLES
Potato	Vegetative	Red Ants/ Late blight	 Weeding and application of fertilizer as per recommended doses is suggested in potato. 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.
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	 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
~	D 11		TICULTURAL CROPS
Banana	Bunching	Cold	 Cover newly emerged bunches with locally available sack to protect from cold/frost Mulching with straw/crop residue at root zone to avoid frost injury in banana.
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps 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)	 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	,	 Mulching with locally available materials like dry grass/paddy straw recommended Remove excess suckers to increase fruit size and improve quality.
Ginger/Turmeric	Seedling		 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			 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	
Damaged gr	ain (not fungus c	ontaminated) to b	e diverted for Poultry/livestock feeding	
Clean drink	ing water should		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	 Iron injection within 10 days of birth is advised to newly bor piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weightIn present weather conditions vaccinate against swine fever (Vaccin available in State Veterinary Depts), 	
Poultry	All stages		Day old chick-Maintain warmth by lighting,	
	-		 In present weather conditions protect the birds from co by using gunny bags/plastic sheets around the poultrysh during night, 	
			 Provide heat by lighting 100W bulb @ 1 bulb per 20 new born chicks. 	
Cattle	A 11 stages	FMD		
	All stages	FMD	 Heavy mortality in cloven footed animals has been reported Supportive treatment of infected animals under supervision 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 St Veterinary Dept.) Provide feed supplements 	
Fishery			 Application of quick lime is highly recommended in order rectify water pH. Application of fish feed (mustard oil cake) is essential achieving higher yield 	
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 mon of age and repeat after that 6 months interval by sub-cutaned route. Pregnant animals above 7 months of pregnancy should be avoided. 	

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(Period: 27th to 29th December, 2017)

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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: 103/2017/Tue

Dated:26th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
Rainfall: 0.0 mm; T. Max: 26.0°C; T. Min:	Generally clear/dry weather forecasted. Daily maximum and
16.0°C; RH: 57-77%	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 71-75% and 18-22% respectively.
	Expected wind direction is mainly S with speed range of 5-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.In case of rain delay harvesting
Mustard	Vegetative	White rust/ Downey mildew	 Need-based foliar spray of Metalaxyl+Dithane M-45 @ 2.5g/lit at 15 days intervalfor management of White rust/Downy mildew in mustard
Black Gram & Green Gram	Vegetative		 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Vegetative	Leaf eating insects	 Provide irrigation to plants Mulching with locally available materials like straw/dray grass to retain soil moisture
76			Spray neem-based pesticides against leaf eating insects
Maize	Harvesting	Rat	 Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
_			VEGETABLES
Potato	Vegetative	Red Ants/ Late blight	 Weeding and application of fertilizer as per recommended doses is suggested in potato. 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.
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	 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
Ginger/turmeric	Vegetative stage	Rhizome rot	 Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric. To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake. Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
			ICULTURAL CROPS
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps 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	 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		 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		 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		 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			Cover the boxes with locally available dry grass or straw to
			provide warmth

			LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed			
0 0	General Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,					
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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 			
Cattle	All stages	FMD	 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		 Provide feed supplements 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	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. 			
Contact Scien	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247					

Agro-met Advisory Bulletin

(Period: 27th to 29th 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: 103/2017/Tue

Dated:26th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
Past weather summary not available	Mostly sunny to cloudy with possibility of light rainfall
	forecasted Daily maximum and minimum temperature for the
	following period is predicted to be 18-19°C and 07-08°C
	respectively. Expected morning and evening relative humidity will
	be 71-82% and 26-40% respectively. Wind direction is mainly SE &
	SSE with wind speed range of 6-7 kmph.
Warning	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease		Precautionary Practices to be followed
D:	***		FIELD (
Rice	Harvesting			Sun-dry & properly winnow the grains for safe storage.
Black Gram & Green Gram	Vegetative			Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Maize	Harvesting	Rat	•	Harvest mature cobs and dry properly before storing
				Use locally available traps to control rats menace
Jhum rice	Harvesting			Immediate harvesting of left-over rice advocated
			1	Proper sun drying before storage.
Potato	Vegetative	Red Ants/	VEGET	
Fotato	vegetative	Late blight	•	Weeding and application of fertilizer as per recommended doses is suggested in potato. 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.
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	•	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
		HORT		URAL CROPS
Banana	Bunching	Cold	•	Cover newly emerged bunches with locally available sack to protect from cold/frost Mulching with straw/crop residue at root zone to avoid frost injury in banana.
Peach	Post-harvesting		•	Training & pruning of diseased/criss-cross branches to harvest more solar energy & for proper growth.
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	•	Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps 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		•	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		•	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.
Large Cardamom	Fruiting	Chirkey Disease		Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
Ginger/Turmeric	Vegetative		•	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	
				Box must be covered with straw/dry leaves to provide warmth
			LIVES	TOCKS
0 0			e diverte	neral d for Poultry/livestock feeding
			the clock	k and water troughs/feeders should be regularly cleaned,
Livestock	Stage	Disease EMD (high fever	_	Previde prepar hedding materials especially to now horn
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	•	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)
		Swine Fever		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	 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		 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	 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.

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

at 03795-226237/226247

Agro-met Advisory Bulletin

(Period: 27th to 29th December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

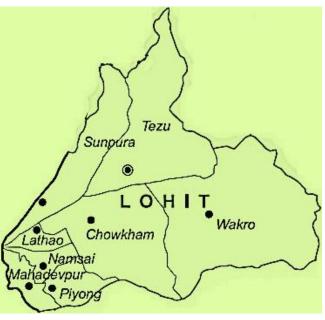


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Lohit

No: 103/2017/Tue

Dated:26th December, 2017



Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
Rainfall = 0.0 mm	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 23-
	25°C and 10-11°C respectively. Expected morning and evening
	relative humidity will be 84-85% and 19-23% respectively. Wind
	direction is mainly SE with speed range of 5 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease		Precautionary Practices to be followed
			FIELD	CROPS
Mustard	Vegetative	White rust/ Downey mildew	•	Need-based foliar spray of Metalaxyl+Dithane M-45 @ 2.5g/lit at 15 days intervalfor management of White rust/Downy mildew in mustard
Rice	Harvesting		•	Sun-dry & properly winnow the grains for safe storage. In case of rain delay harvesting
Black Gram & Green Gram	Vegetative		•	Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Vegetative	Leaf eating	•	Provide irrigation to plants
		insects	•	Mulching with locally available materials like straw/dray grass
				to retain soil moisture
			•	Spray neem-based pesticides against leaf eating insects
Maize	Harvesting	Rat	•	Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
			VEGE 1	TABLES
Potato	Vegetative	Red Ants/	•	Weeding and application of fertilizer as per recommended
		Late blight	•	doses is suggested in potato. 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
Cabbage/	Maturity	Leaf eating	•	management of potato late blight. Light irrigation is essential,
Cauliflower/	iviacarity	caterpillars/	•	In present weather conditions severe attack of leaf eating
Knolkhol/		Aphids		caterpillars has been reported. Spray Azadirachtin(0.015%)
Others				@6ml/litre of water when weather is clear.
Cin con/to-massis	Vacatativa eta sa	Dhimama ast	•	Spray with neem based pesticides against aphids
Ginger/turmeric	Vegetative stage	Rhizome rot	•	<u>Under excessive moisture, there is every possibility of</u> rhizome rot in ginger and turmeric.
			•	To manage the disease, provide adequate drainage and
				apply Trichoderma harzianum @ 50 g/bed along with
			_	FYM/ neem cake.
			•	Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
		HORT	ICULT	URAL CROPS
Citrus	Maturity/	Fruit Drop	•	Harvest the mature fruit with stalk and store in dry places.
	harvesting	Fruit Fly	•	Collect & dispose rotten fallen fruits/ install fruit-fly traps
		Gummosis	•	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	Fruiting	Chirkey Disease	•	Remove dry/diseased/old tillers & branches & spray
		a: 1 x a		Bio NPK@ 2ml/lit water for proper growth.
Banana	All stages	Sigatoka Leaf spot	•	One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the
		spot	•	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
Kiwi	Harvacting			Should be howested by enoming their steller
IXIWI	Harvesting		•	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		•	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		•	Mulching with locally available materials like dry grass/paddy
Singer/Turmeric	, 0501111110			straw recommended
			•	Earthing up of ginger/turmeric along with basal application of
				required fertilizer should be done
			Hone	y Bees Cover the boxes with locally available dry grass or straw to
Honey bees				

			provide warmth		
	•		LIVESTOCKS		
Livestock	Stage	Disease	Precautionary Practices to be followed		
			General		
			e diverted for Poultry/livestock feeding		
			the clock and water troughs/feeders should be regularly cleaned,		
Pigs	All stages All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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 		
			 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		 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	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. 		
Contact Scien	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247				

Agro-met Advisory Bulletin

(Period: 27th to 29th 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: 103/2017/Tue

Dated:26th December, 2017



Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
Rainfall = 0.0 mm (Roing)	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 23-
	25°C and 10-11°C respectively. Expected morning and evening
	relative humidity will be 84-85% and 19-23% respectively. Wind
	direction is mainly SE with speed range of 5 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
	T	1	FIELD CROPS
Rice	Harvesting		 Sun-dry & properly winnow the grains for safe storage.
Mustard	Vegetative	White rust/ Downey mildew	 Need-based foliar spray of Metalaxyl+Dithane M-45 @ 2.5g/lit at 15 days intervalfor management of White rust/Downy mildew in mustard
Black Gram & Green Gram	Vegetative		 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Vegetative	Leaf-eating	Provide irrigation to plants
		insects	 Spray neem-based insecticides against leaf eating insects
Soybean	Harvesting		Harvest soybean & thoroughly dry in sun.
Maize	Harvesting	Rat	 Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
			VEGETABLES
Potato	Vegetative	Red Ants/ Late blight	 Weeding and application of fertilizer as per recommended doses is suggested in potato. 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.
Cabbage/	Maturity	Leaf eating	Light irrigation is essential,
Cauliflower/ Knolkhol/ Others		caterpillars/ Aphids	• 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.
Others			 Spray with neem based pesticides against aphids
	<u> </u>	HORT	ICULTURAL CROPS
Large Cardamom	Fruiting	Chirkey Disease	• Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps 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	 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		
Pineapple Orchards	Sowing		 Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate 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
Orchards	Sowing		 Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate 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. 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
	Sowing		 Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate 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. 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
Orchards	Sowing		 Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate 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. 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 Box must be covered with straw/dry leaves to provide

- 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	 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 weightIn present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Poultry	All stages		 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	 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		Deworming for gastrointestinal parasite

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)

Agro-met Advisory Bulletin

(Period: 27th to 29th 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: 103/2017/Tue

Dated:26th December, 2017



Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
Rainfall = NA	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 23-
	25°C and 10-11°C respectively. Expected morning and evening
	relative humidity will be 84-85% and 19-23% respectively. Wind
	direction is mainly SE & SSE with speed range of 5 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Pea Sowing Soybean Harvesting Rice Maturity/ Harvesting leaf folder/ ric skipper Maize Harvesting Rat Pulses Vegetative Blister beetle Potato Vegetative Red Ants/ Late blight Cabbage/ Cauliflower/ Knolkhol/ Others HOI Banana Bunching Cold Temperate fruits After harvesting Citrus Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Large Cardamom Fruiting Chirkey Diseat Ginger/Turmeric Seedling Orchards	Precautionary Practices to be followed
Soybean Harvesting Rice Maturity/ Harvesting leaf folder/ ric skipper Maize Harvesting Rat Pulses Vegetative Blister beetle Potato Vegetative Red Ants/ Late blight Cabbage/ Cauliflower/ Knolkhol/ Others HOI Banana Bunching Cold Temperate fruits After harvesting Citrus Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	FIELD CROPS
Rice Maturity/ Harvesting leaf folder/ ric skipper Maize Harvesting Rat Pulses Vegetative Blister beetle Potato Vegetative Red Ants/ Late blight Cabbage/ Cauliflower/ Knolkhol/ Others HOI Banana Bunching Cold Temperate fruits After harvesting Citrus Maturity/ Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing Provide injection to plants.
Rice Maturity/ Harvesting leaf folder/ ric skipper Maize Harvesting Rat Pulses Vegetative Blister beetle Potato Vegetative Red Ants/ Late blight Cabbage/ Cauliflower/ Knolkhol/ Others HOI Banana Bunching Cold Temperate fruits After harvesting Citrus Maturity/ Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	 Provide irrigation to plants Complete sowing by 1st fortnight of Nov. for better yield
Rice Maturity/ Harvesting Gundhi bug/ leaf folder/ ric skipper Maize Harvesting Rat	 Complete sowing by 1st fortnight of Nov. for better yield Immediately harvest soybean & thoroughly dry in sun.
Maize Harvesting leaf folder/ ric skipper Maize Harvesting Rat Pulses Vegetative Blister beetle Potato Vegetative Red Ants/ Late blight Cabbage/ Cauliflower/ Knolkhol/ Others HOI Banana Bunching Cold Temperate fruits After harvesting Citrus Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	
Pulses Vegetative Blister beetler Potato Vegetative Red Ants/ Late blight Cabbage/ Cauliflower/ Knolkhol/ Others HOI Banana Bunching Cold Temperate fruits After harvesting Citrus Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	 harvest the mature crop proper sun-drying before storag
Potato Vegetative Red Ants/ Late blight Cabbage/ Cauliflower/ Knolkhol/ Others HOI Banana Bunching Cold Temperate fruits After harvesting Citrus Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	 Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
Cabbage/ Cauliflower/ Knolkhol/ Others HOI Banana Bunching Cold Temperate fruits After harvesting Citrus Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	 irrigation and weeding advocated
Cabbage/ Cauliflower/ Knolkhol/ Others HOI Banana Bunching Cold Temperate fruits After harvesting Citrus Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	VEGETABLES
Cauliflower/ Knolkhol/ Others HOI Banana Bunching Cold Temperate fruits After harvesting Citrus Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	 Weeding and application of fertilizer as per recommended doses is suggested in potato. 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.
Banana Bunching Cold Temperate fruits After harvesting Citrus Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Fruit fly Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	 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
Temperate fruits After harvesting Citrus Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Fruit fly Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	TICULTURAL CROPS
Citrus Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Fruit fly Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	 Cover newly emerged bunches with locally available sack to protect from cold/frost Mulching with straw/crop residue at root zone to avoid frost injury in banana.
harvesting Fruit Fly Gummosis Pineapple Sowing Guava Fruit Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	Training & pruning of the temperate crops (apple/pears/peach) is recommended
Guava Fruit Development Fruit fly Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps 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
Development Large Cardamom Fruiting Chirkey Disea Ginger/Turmeric Seedling	 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	 Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
	• Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
Orchards	 Mulching with locally available materials like dry grass/paddy straw recommended Proper drainage to be done and avoid water stagnation
	 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			 Box must be covered with straw/dry leaves to provide warmth 	
			LIVESTOCKS	
Livestock	Stage	Disease	Precautionary Practices to be followed	
Livestock	Stage	Disease	General	
• Domogod gr	oin (not fungus o	antaminated) to h	e diverted for Poultry/livestock feeding	
0 0			the clock and water troughs/feeders should be regularly cleaned,	
Pigs	All stages	FMD (high fever		
1 1g5	7 III stages	and appearance	piglets and lukewarm food & water	
		of mucous	 Iron injection within 10 days of birth is advised to newly born 	
		membrane of the	piglets if they are kept in confined system	
		mouth and foot.)	 Deworm with anti helmetic drugs (particularly Tapeworms) 	
		Swine Fever	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	 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.)	
Poultry	All stages		Provide feed supplements Provide feed supplements Provide feed supplements Provide feed supplements Provide feed supplements	
Foundy	All stages		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	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months	
			of age and repeat after that 6 months interval by sub-cutaneous	
			route.	
			• Pregnant animals above 7 months of pregnancy should be avoided.	
Contact Scien	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call			
at 03795-226237/226247				

Agro-met Advisory Bulletin

(Period: 27th to 29th 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: 103/2017/Tue

Dated:26th December, 2017



Weather summery of the previous week	Weather forecast valid up to 31st Dec'2017
Rainfall: 0.0 mm; T. Max: 29.0°C; T. Min: 13.0°C; RH: 61-81%	Generally clear/dry weather forecasted. Daily maximum and minimum temperature for the following period is predicted to be 25-27°C and 11-13°C respectively. Expected morning and evening relative humidity will be 82-88% and 14-22% respectively. Expected wind direction mainly ESE with speed range of 5-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- 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
Mustard	Vegetative	White rust/ Downey mildew	Need-based foliar spray of Metalaxyl+Dithane M-45 @ 2.5g/lit at 15 days intervalfor management of White rust/Downy mildew in mustard
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.
Black Gram & Green Gram	Vegetative		 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Vegetative	Leaf-eating insects	 Provide irrigation to plants Spray neem-based insecticides against leaf eating insects
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Maize	Harvesting	Rat	 Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
			VEGETABLES
Potato	Vegetative	Red Ants/ Late blight	 Weeding and application of fertilizer as per recommended doses is suggested in potato. 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.
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	 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
		HORT	TCULTURAL CROPS
Large Cardamom	Fruiting	Chirkey Disease	• Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.
Banana	Multiple stages	Sigatoka Leaf spot	 Breakdown the soil collected around the tree trunk 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		 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.
Orchards			 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
Honovy bass			Honey Bees
Honey bees			Box must be covered with straw/dry leaves to provide warmth
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
	ain (not fungus c	ontaminated) to b	General oe diverted for Poultry/livestock feeding
• Clean drink	ing water should	be ensured round	the clock and water troughs/feeders should be regularly cleaned,

Fishery			Keep fish stoking density thin @1200/ha
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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		 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	 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 Scien	ntists (ICAR) or	State Agril Staff	or KVK staff for measures against adverse conditions or call

at 03795-226237/226247

Agro-met Advisory Bulletin

(Period: 27th to 29th 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: 103/2017/Tue

Dated:26th December, 2017



Weather summery of the previous week	Weather forecast valid up to 31st Dec'2017
Rainfall = 0.0 mm	Generally clear/dry weather forecasted Daily maximum and
	minimum temperature for the following period is predicted to be 11-
	13°C and 01-02°C respectively. Expected morning and evening
	relative humidity will be 74-81% and 04-21% respectively. Wind
	direction is mainly WSW with probable speed range of 7-9 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- 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
Rice	Harvesting		FIELD CROPSSun-dry & properly winnow the grains for safe storage.
Maize	Harvesting	Rat	Harvest mature cobs and dry properly before storing
			Use locally available traps to control rats menace VEGETABLES
Potato	Vegetative	Red Ants/	Weeding and application of fertilizer as per recommended
		Late blight	doses is suggested in potato.
			 Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of
			water,
			 Foliar spray of Dithane <u>M-45@2.5g/litre</u> of water for management of potato late blight.
Cabbage/	Maturity	Leaf eating	Light irrigation is essential,
Cauliflower/ Knolkhol/		caterpillars/ Aphids	• In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%)
Others		ripinus	@6ml/litre of water when weather is clear.
			Spray with neem based pesticides against aphids
Banana	Runching	Cold HORT	TCULTURAL CROPS Cover nevel among a despense with leavely available sook to
Danalla	Bunching	Cold	 Cover newly emerged bunches with locally available sack to protect from cold/frost
			Mulching with straw/crop residue at root zone to avoid
Temperate fruits	After harvesting		 frost injury in banana. Training & pruning of the temperate crops (apple/pears/peach)
•			is recommended
Kiwi	Harvesting		Should be harvested by snapping their stalks Figure 1 and 1 by start and 1
			• Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.
Orchards			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			Provide sugar syrup near the box
J			Cover the boxes with locally available dry grass to provide
			warmth. LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
	l suga		General
~ ~			1° 4 10 To 14 /1° 4 10 1°
			be diverted for Poultry/livestock feeding
Pigs			the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance	Provide proper bedding materials especially to new-born piglets and lukewarm food & water
Pigs		FMD (high fever and appearance of mucous	 the clock and water troughs/feeders should be regularly cleaned, Provide proper bedding materials especially to new-born piglets and lukewarm food & water Close all the ventilation in the house and cover with locally
Pigs		FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 the clock and water troughs/feeders should be regularly cleaned, 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
Pigs		FMD (high fever and appearance of mucous membrane of the	 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
Pigs		FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 the clock and water troughs/feeders should be regularly cleaned, 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)
Pigs		FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 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
	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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),
Pigs		FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 the clock and water troughs/feeders should be regularly cleaned, 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
	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 the clock and water troughs/feeders should be regularly cleaned, 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), Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported.
	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 the clock and water troughs/feeders should be regularly cleaned, 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), 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
	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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), 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,
	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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), 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,
	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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), 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
	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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), 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,
	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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), 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.)

	 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			

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

Agro-met Advisory Bulletin

(Period: 27th to 29th 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: 103/2017/Tue

Dated:26th December, 2017



Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
Rainfall = 0.0 mm	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 25-
	27°C and 11-13°C respectively. Expected morning and evening
	relative humidity will be 82-88% and 14-22% respectively. Wind
	direction is mainly E & ESE with speed range of 5-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed	
		,	FIELD CROPS	
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.In case of rain delay harvesting	
Mustard	Vegetative	White rust/ Downey mildew	Need-based foliar spray of Metalaxyl+Dithane M-45 @ 2.5g/lit at 15 days intervalfor management of White rust/Downy mildew in mustard	
Pea	Vegetative	Cut-worm	Regular monitoring of crop against attack of cutworm is	
			advised,Spray neem-based insecticides against leaf eating insects	
Black Gram &	Vegetative	Powdery	Need based foliar spray of Sulfex@2g/lit water to control	
Green Gram	<u> </u>	mildew	powdery mildew in black/green gram/pea	
Maize	Harvesting	Rat	 Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace. 	
			VEGETABLES	
Potato	Vegetative	Red Ants/	Weeding and application of fertilizer as per recommended	
	- vgettar t	Late blight	 doses is suggested in potato. 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. 	
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	 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. 	
Tomato	Fruiting		 Spray with neem based pesticides against aphids Removing side shoots is an important job which prevents 	
	110101118		the fruits being shaded by leaves.	
			 Provide shed to protect from frost 	
		HORT	ICULTURAL CROPS	
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps 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	 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		 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	 Harvest with care and store in dry places Install fruit fly pheromone traps for collection and destruction of the adult insects 	
Large Cardamom	Fruiting	Chirkey Disease	• Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.	
Ginger/Turmeric	Vegetative		Mulching with locally available materials like dry grass/paddy straw recommended to retain soil moisture	
			Honey Bees	
			 Box must be covered with straw/dry leaves to provide warmth 	
			LIVESTOCKS	
Livestock	Stage	Disease	Precautionary Practices to be followed	
Damaged gr	General • Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding			
5 6				

Dies	4 11		
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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		 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	 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

at 03795-226237/226247

Agro-met Advisory Bulletin

(Period: 27th to 29th 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: 103/2017/Tue

Dated:26th December, 2017



Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
Rainfall = 0.0 mm	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 20-
	21°C and 05-07°C respectively. Expected morning and evening
	relative humidity will be 78-85% and 17-22% respectively. Wind
	direction is mainly E with speed range of 5-8 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
Rice	Harvesting		FIELD CROPSSun-dry & properly winnow the grains for safe storage.
	8		 In case of rain delay harvesting
Maize	Harvesting	Rat	Harvest mature cobs and dry properly before storing
			Use locally available traps to control rats menace VEGETABLES
Cabbage/	Maturity	Leaf eating	
Cauliflower/ Knolkhol/	Maturity	caterpillars/ Aphids	 Light irrigation is essential, In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%)
Others		ripinus	@6ml/litre of water when weather is clear.
Potato	Vegetative	Red Ants/	 Spray with neem based pesticides against aphids Ridge should be properly made,
Totato	Vegetative	Late blight	 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.
		HORT	TICULTURAL CROPS
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to
			protect from cold/frost • Mulching with straw/crop residue at root zone to avoid
			frost injury in banana.
Temperate fruits	After harvesting		Training & pruning of the temperate crops (apple/pears/peach) is recommended
Citrus	Maturity/	Fruit Drop	Harvest the mature fruit with stalk and store in dry places.
	harvesting	Fruit Fly Gummosis	 Collect & dispose rotten fallen fruits/ install fruit-fly traps 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		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		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		 Proper drainage to be done and avoid water stagnation Earthing up of ginger/turmeric along with basal application of
			required fertilizer should be done
Honory boos	l		Honey Bees
Honey bees			Box must be covered with straw/dry leaves to provide warmth
			Provide sugar syrup
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
			General
0 0			e diverted for Poultry/livestock feeding
			the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance	 Provide proper bedding materials especially to new-born piglets and lukewarm food & water
		of mucous	 Iron injection within 10 days of birth is advised to newly born
		membrane of the	process it they are not in commence system
		mouth and foot.) Swine Fever	Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight
			In present weather conditions vaccinate against swine
Cattle	All stages	FMD	 fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and
	<i>J</i>		lukewarm food & water
			 Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials.
			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			 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		 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	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. 	
Contact Scien	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 27th to 29th December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

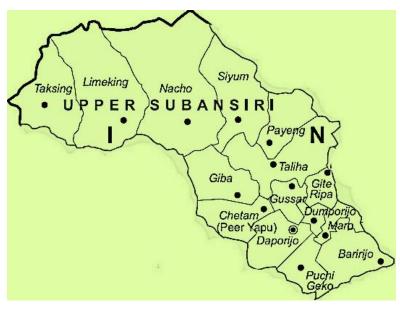


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Upper Subansiri

No: 103/2017/Tue

Dated:26th December, 2017



Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
Daporijo: 0.0 mm	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 23-
	25°C and 10-11°C respectively. Expected morning and evening
	relative humidity will be 84-85% and 19-23% respectively.
	Expected wind direction is mainly SSE & SE with speed range of 5
	kmph.
Warning	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- 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
7.5	* ***		FIELD CROPS
Mustard	Vegetative	White rust/ Downey mildew	 Need-based foliar spray of Metalaxyl+Dithane M-45 @ 2.5g/lit at 15 days intervalfor management of White rust/Downy mildew in mustard
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.
Pea	Sowing		Treat pea with rhizobium@2gm/kg seed before sowing or treat
			with carbendazim @ 2g/kg seed before sowing
			Provide irrigation to plants
D1 1 C 0	**		Complete sowing by 1 st fortnight of Nov. for better yield
Black Gram & Green Gram	Vegetative		 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Maize	Harvesting	Rat	Harvest mature cobs and dry properly before storing
			Use locally available traps to control rats menace Company Company
Potato	Vegetative	Red Ants/	VEGETABLES Westing and application of fautilian as you recommended
Potato	vegetative	Late blight	 Weeding and application of fertilizer as per recommended doses is suggested in potato.
			 Ridge should be properly made,
			• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of
			water, Folion among of Dithono M. 45@2.5 c/litro of vycton for
			 Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight.
Cabbage/	Maturity	Leaf eating	Light irrigation is essential,
Cauliflower/		caterpillars/	• In present weather conditions severe attack of leaf eating
Knolkhol/ Others		Aphids	caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.
o incre			 Spray with neem based pesticides against aphids
		HORT	ICULTURAL CROPS
Temperate fruits	After harvesting		• Training & pruning of the temperate crops (apple/pears/peach) is recommended
Large Cardamom	Fruiting	Chirkey Disease	• Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly	Harvest the mature fruit with stalk and store in dry places. Harvest the mature fruit with stalk and store in dry places.
	nai vesting	Gummosis	 Collect & dispose rotten fallen fruits/ install fruit-fly traps Dead wood pruning may be done after harvesting of crop
			followed by spraying of fungicide, Carbendazim @ 1gm/lit of
			water.
Donono	Dunching	Cold	Breakdown the soil collected around the tree trunk Covernment by greated by releast the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the tree trunk The soulce of the collected around the collected around the collected around the tree trunk The soulce of the collected around the colle
Banana	Bunching	Cold	 Cover newly emerged bunches with locally available sack to protect from cold/frost
Orchards			• 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			Provide sugar syrup near the boxAdd insulation and ventilation systems
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
LITOSUCK	Duge	Discuse	General
Damaged gra	ain (not fungus co	ontaminated) to be	e diverted for Poultry/livestock feeding
	ng water should b	pe ensured round	the clock and water troughs/feeders should be regularly cleaned,
Fishery	A 11	EN (D. (L. L. C	Keep fish stoking density thin @1200/ha
Pigs	All stages	FMD (high fever and appearance	 Provide proper bedding materials especially to new-born piglets and lukewarm food & water
		of mucous	 Iron injection within 10 days of birth is advised to newly born
		membrane of the	piglets if they are kept in confined system
		mouth and foot.) Swine Fever	Deworm with anti helmetic drugs (particularly Tapeworms)
		Swille rever	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	 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		 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	 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

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

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 27th to 29th 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: 103/2017/Tue

Dated:26th December, 2017



Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
Rainfall = Bomdila: 0.0; Bhalukpong: 0.0	Generally clear/dry weather forecasted. Daily maximum and
mm	minimum temperature for the following period is predicted to be 20-
	21°C and 05-07°C respectively. Expected morning and evening
	relative humidity will be 78-85% and 17-22% respectively. Wind
	direction variable NE & ENE with speed range of 5-8 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 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		Sun-dry & properly winnow the grains for safe storage.
			In case of rain delay harvesting
Maize	Harvesting	Rat	Harvest mature cobs and dry properly before storing
			Use locally available traps to control rats menace
Pea	Vegetative		Provide irrigation to plants
			Weeding advocated
			VEGETABLES
Potato	Vegetative	Red Ants/	Weeding and application of fertilizer as per recommended
		Late blight	doses is suggested in potato.
			Ridge should be properly made, 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.
Cabbage/	Maturity	Leaf eating	Light irrigation is essential,
Cauliflower/		caterpillars/	• In present weather conditions severe attack of leaf eating
Knolkhol/		Aphids	caterpillars has been reported. Spray Azadirachtin(0.015%)
Others			@6ml/litre of water when weather is clear.
			 Spray with neem based pesticides against aphids
		HORT	ICULTURAL CROPS
Temperate fruits	After harvesting		• Training & pruning of the temperate crops (apple/pears/peach) is recommended
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to
			protect from cold/frost
			 Mulching with straw/crop residue at root zone to avoid
G:	36	E i D	frost injury in banana.
Citrus	Maturity/	Fruit Drop	Harvest the mature fruit with stalk and store in dry places. No. 10.
	harvesting	Fruit Fly Gummosis	Collect & dispose rotten fallen fruits/ install fruit-fly traps Output Description of the second sec
		Guilliosis	 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	Sowing		Clean the vicinity of plants by weeding and loosen up the soil.
			Remove sly and use it as a new planting material.
			• Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos
			20EC@ 2ml/lt of water to protect against soil borne disease
			and insect.
Orchards			• 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
Honey bees			Provide sugar syrup near the boxAdd insulation and ventilation systems
			Add institution and ventuation systems
	a.		LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
.	• / . •		General
	_		e diverted for Poultry/livestock feeding
	ang water should	pe ensured round	the clock and water troughs/feeders should be regularly cleaned,
Fishery	A 11	EMD 4: 1 c	Keep fish stoking density thin @1200/ha
Pigs	All stages	FMD (high fever	
		and appearance of mucous	piglets and lukewarm food & waterIron injection within 10 days of birth is advised to newly born
	I	membrane of the	
			process it they are kept in commed system
		mouth and foot.)	• Deworm with anti helmetic drugs (particularly Tapeworms)
		mouth and foot.) Swine Fever	 Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight
		· /	beworm with and helinetic drugs (particularly rupe worms)
		· /	viz. Fento Plus @ 1 tablet per 30 kg body weight
Cattle	All stages	· /	viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine

Doubter	All stores		 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		 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	 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. for KVK staff for measures against adverse conditions or call

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at 03795-226237/226247

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 27th to 29th December, 2017)



ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

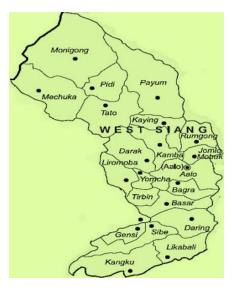


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: West Siang

No: 103/2017/Tue

Dated:26th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 31 st Dec'2017
Basar: Rainfall = 0.0 mm. T. Max: 21.0 °C,	Generally clear/dry weather forecasted. Daily maximum and
T. Min: 8.0°C, RH: 41-97%, Wind Speed: 4-	minimum temperature for the following period is predicted to be 25-
5 kmph, Wind Direction: ESE	26°C and 11-12°C respectively. Expected morning and evening
	relative humidity will be 71-75% and 18-22% respectively. Wind
	direction is mainly WSW & W variable with speed range of 5-6
	kmph.
Warning:	Moderate to dense for 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		 Sun-dry & properly winnow the grains for safe storage.
	· ·		In case of rain delay harvesting
Black Gram &	Vegetative		Need based foliar spray of Sulfex@2g/lit water to control
Green Gram			powdery mildew in black/green gram/pea
Pea	Vegetative	Leaf eating	Provide irrigation to plants
	8	insects	Mulching with locally available materials like straw/dray grass
			to retain soil moisture
34:	TT (*	D (Spray neem-based pesticides against leaf eating insects
Maize	Harvesting	Rat	Harvest mature cobs and dry properly before storing
N/ 4 1	T 7 4 4*	TX 71 *4 4/	Use locally available traps to control rats menace
Mustard	Vegetative	White rust/	• Need-based foliar spray of Metalaxyl+Dithane M-45 @
		Downey mildew	2.5g/lit at 15 days intervalfor management of White rust/Downy mildew in mustard
			VEGETABLES
Potato	Vegetative	Red Ants/	
1 Otato	Vegetative	Late blight	 Weeding and application of fertilizer as per recommended doses is suggested in potato.
		Late ongit	 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.
Cabbage/	Maturity	Leaf eating	Light irrigation is essential,
Cauliflower/	·	caterpillars/	• In present weather conditions severe attack of leaf eating
Knolkhol/		Aphids	caterpillars has been reported. Spray Azadirachtin(0.015%)
Others			@6ml/litre of water when weather is clear.
			 Spray with neem based pesticides against aphids
Ginger/turmeric	Vegetative stage	Rhizome rot	Under excessive moisture, there is every possibility of
			rhizome rot in ginger and turmeric.
			 To manage the disease, provide adequate drainage and
			apply Trichoderma harzianum @ 50 g/bed along with
			FYM/ neem cake.
			 Mulching should be done with locally available mulch,
			Earthing up of exposed rhizome,
_			ICULTURAL CROPS
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to
			protect from cold/frost
			Mulching with straw/crop residue at root zone to avoid
Tamananata finita	A ft on la ourse et in e		frost injury in banana.
Temperate fruits	After harvesting		• Training & pruning of the temperate crops (apple/pears/peach) is recommended
I C 1	Emilia -	Chi-l Di	
Large Cardamom	Fruiting	Chirkey Disease	• Remove dry/diseased/old tillers & branches & spray
C'.	3.6	E i D	Bio NPK@ 2ml/lit water for proper growth.
Citrus	Maturity/	Fruit Drop	• Harvest the mature fruit with stalk and store in dry places.
	harvesting	Fruit Fly Gummosis	• Collect & dispose rotten fallen fruits/ install fruit-fly traps
		Guillilosis	Dead wood pruning may be done after harvesting of crop fall and the converse of familiate Corbon desire. @ 1 and the familiate of the property of the familiate of the property of the p
			followed by spraying of fungicide, Carbendazim @ 1gm/lit of
			water.Breakdown the soil collected around the tree trunk
Pineapple	Sowing		
i meappie	Sowing		
			 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
G: /F :	**		and insect.
Ginger/Turmeric	Vegetative		Mulching with locally available materials like dry grass/paddy
			straw recommended
			Earthing up of ginger/turmeric along with basal application of and fortilizer should be done
			required fertilizer should be done
Hanas I			Honey Bees
Honey bees			 Cover the boxes with locally available dry grass or straw to provide warmth
			provide wermth

			LIVESTOCKS	
Livestock	Stage	Disease	Precautionary Practices to be followed	
			General	
Damaged gr	rain (not fungus co	ontaminated) to b	e diverted for Poultry/livestock feeding	
			the clock and water troughs/feeders should be regularly cleaned,	
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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 	
Cattle	All stages	FMD	 fever (Vaccines available in State Veterinary Depts), 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		 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	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. 	
Contact Scien	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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