Agro-met Advisory Bulletin

(Period: 20th to 22nd December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

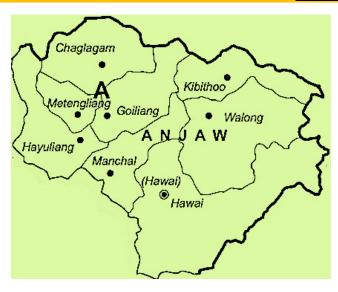


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Anjaw

No: 101/2017/Tue

Dated:19th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
No weather summary available	Generally clear/dry weather forecasted. Daily maximum and minimum temperature for the following period is predicted to be 20-22°C and 06-08°C respectively. Expected morning and evening relative humidity will be 68-74% and 22-37% respectively. Wind direction is mainly S and a speed range of 4-5 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
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- Warning: Spraying of DDT in crops is lethal



Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Pea	Vegetative	Cut-worm	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 &	Vegetative	Powdery	Need based foliar spray of Sulfex@2g/lit water to control
Green Gram		mildew	powdery mildew in black/green gram/pea
			VEGETABLES
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.
Dotato	Vacatativa	Red Ants/	Spray with neem based pesticides against aphids
Potato	Vegetative	Late blight	Weeding and application of fertilizer as per recommended deges is graphed in notate.
		Late origin	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.
		HORT	TICULTURAL CROPS
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to
			protect from cold/frost
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.
D' 1	** /		Breakdown the soil collected around the tree trunk
Pineapple	Harvesting/		• Clean the vicinity of plants by weeding and loosen up the soil.
	Sowing		After winter harvest, collection/Selection of suckers & slip
			to be done for next season planting.
Temperate fruits	After harvesting		• Training & pruning of the temperate crops (apple/pears/peach)
			is recommended
Livestock	Stage	Disease	LIVESTOCKS Precautionary Practices to be followed
Poultry	All stages	Discuse	Day old chick-Maintain warmth by lighting,
Tourty	7 III stages		 Day old chick-ivialitatin warmen by righting, 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	Provide proper bedding materials especially to new-born
		and appearance	piglets and lukewarm food & water
		of mucous	• Iron injection within 10 days of birth is advised to newly born
		membrane of the	pigiets if they are kept in commed system
		mouth and foot.)	20 World Williams Hollington Grags (particularly rape Worlds)
		Swine Fever	viz. Fento Plus @ 1 tablet per 30 kg body weight
			In present weather conditions vaccinate against swine
C. vit	A 11	EMD	fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	Provide proper bedding materials especially to new-born and hydrogram food & water
			lukewarm food & waterHeavy 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 0, A and Asia at 6
			months of age and repeat after that 6 months interval by
			· · · · · · · · · · · · · · · · · · ·

			sub-cutaneous route. Pregnant animals above 7 months of	
			pregnancy should be avoided from vaccination.	
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-				
			226237/226247	

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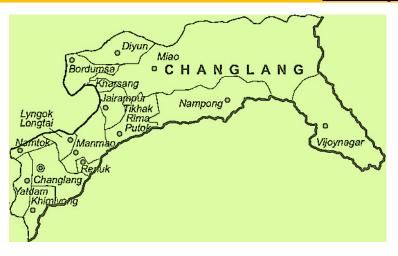


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Changlang

No: 101/2017/Tue

Dated:19th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall = Changlang: 0.0 mm Miao: 0.0	Generally clear/dry weather forecasted. Daily maximum and
mm (up to 15 th Dec)	minimum temperature for the following period is predicted to be 25-
	27°C and 11-12°C respectively. Expected morning and evening
	relative humidity will be 66-74% and 26-32% respectively. Wind
	direction is mainly E & ESE with speed range of 4-6 kmph.
Warning	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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



Crop	Stage	Pest/Disease	Precautionary Practices to be followed	
D:	**		FIELD CROPS	
Rice	Harvesting		• Sun-dry & properly winnow the grains for safe storage.	
D	X 7	G .	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 &	Vegetative	Powdery	 Need based foliar spray of Sulfex@2g/lit water to control 	
Green Gram		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 	
		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.	
			 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	
Citrus	Maturity/	Fruit Drop	Harvest the mature fruit with stalk and store in dry places.	
Citius	harvesting	Fruit Fly	 Collect & dispose rotten fallen fruits/ install fruit-fly traps 	
	8	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	
Banana	All stages	Sigatoka Leaf	 One sword sucker may be allowed after shooting (Flowering), 	
		spot	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.	
	8		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	
	C		• 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 **TYPERFORM **TYP	
			LIVESTOCKS	
		TO	Precautionary Practices to be followed	
Livestock	Stage	Disease	<u> </u>	
			General	
Damaged gra	ain (not fungus o	contaminated) to b	General e diverted for Poultry/livestock feeding	
Damaged gra	ain (not fungus o	contaminated) to b	General	

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 Contact Scient	All stages	State April Staff	 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks. 		
Contact Scien	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247				

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

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(Period: 20th to 22nd 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: 101/2017/Tue

Dated:19th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall = 1.0 mm (Anini) (up to 15 th Dec)	Mostly sunny to partly cloudy with possibility of light rainfall
	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
	65-80% and 16-45% respectively. 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

- 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
Rice	Harvesting		FIELD CROPS Sun-dry & properly winnow the grains for safe storage
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
100	, egetati ve	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
Wiaize	Trai vesting	Kat	 Use locally available traps to control rats menace
			VEGETABLES
Potato	Vegetative	Red Ants/	Weeding and application of fertilizer as per recommended
	C	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
Cabba as /	Motoritor	Lasfastina	management of potato late blight.
Cabbage/ Cauliflower/	Maturity	Leaf eating caterpillars/	Light irrigation is essential,In present weather conditions severe attack of leaf eating
Knolkhol/		Aphids	caterpillars has been reported. Spray Azadirachtin(0.015%)
Others		Tipinos	@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, Example 1.1. The state of the state
		ПО В	Earthing up of exposed rhizome, ICULTURAL CROPS
Temperate fruits	After harvesting	HOK	Training & pruning of the temperate crops (apple/pears/peach)
1 0111p 01000 11 0100	Titter nun vestnig		is recommended
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.
		G. 1 7 0	Breakdown the soil collected around the tree trunk
Banana	All stages	Sigatoka Leaf	One sword sucker may be allowed after shooting (Flowering), But the state of
		spot	• 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
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.
			Honey Bees
Honey bees			Cover the boxes with locally available dry grass or straw to
			provide warmth
			LIVESTOCKS

			General		
	Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding				
			he 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 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 Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795- 226237/226247					

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(Period: 20th to 22nd 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 Kameng

No: 101/2017/Tue

Dated:19th December, 2017



Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall = 0.0 mm	Partly cloudy with no possibility of rainfall forecasted. Daily
	maximum and minimum temperature for the following period is
	predicted to be 24-25°C and 09-11°C respectively. Expected
	morning and evening relative humidity will be 68-77% and 32-39%
	respectively. Expected wind direction is mainly SSE 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
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 Complete sowing by 1st fortnight of Nov. for better yield
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Pulses	Vegetative		
ruises	vegetative		irrigation and weeding advocated VECETABLES
Potato	Vegetative	Red Ants/	 VEGETABLES Weeding and application of fertilizer as per recommended
Totato	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
Cabbage/	Maturity	Leaf eating	management of potato late blight.Light irrigation is essential,
Cauliflower/ Knolkhol/ Others	Waturity	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 TOTAL THE COURT OF THE COURT
Citrus	Maturity/	Fruit Drop	 TICULTURAL CROPS Harvest the mature fruit with stalk and store in dry places.
Citrus	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.
Banana	Bunching	Cold	 Breakdown the soil collected around the tree trunk Cover newly emerged bunches with locally available sack to protect from cold/frost
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	micetiony	 Mulching with locally available materials like dry grass/paddy straw recommended Remove excess suckers to increase fruit size and improve
Ginger/Turmeric	Seedling		 quality. 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
Toko palm	Nursery		Agroforestry Filling of nursery polybags for raising of takopalm seedlings
Toko pami	ranscry		i ming of nursery poryologs for faising of takopann securings
			I MARGINO CAYO
T :	G45	Diacore	LIVESTOCKS Draggartiangury Dragations to be followed
Livestock	Stage	Disease	Precautionary Practices to be followed General
0 0			General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,

Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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 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 		
Fishery			 Application of quick lime is highly recommended in order to rectify water pH. Application of fish feed (mustard oil cake) is essential for achieving higher yield 		
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. 		
Contact Scient	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795- 226237/226247				

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(Period: 20th to 22nd 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: 101/2017/Tue

Dated:19th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall: 0.6 mm; T. Max: 28.0°C; T. Min:	Generally clear/dry weather forecasted. Daily maximum and
17.0°C; RH: 68-89% (up to 15 th Dec)	minimum temperature for the following period is predicted to be 25-
	26°C and 13-15°C respectively. Expected morning and evening
	relative humidity will be 64-66% and 27-37% respectively.
	Expected wind direction is mainly S 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
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- 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 & 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	
rea	vegetative	insects	Provide irrigation to plants Mulching with levelly available metarials like atraw/dray grass.
		msects	 Mulching with locally available materials like straw/dray grass to retain soil moisture
Maize	Harvesting	Rat	 Spray neem-based pesticides against leaf eating insects Harvest mature cobs and dry properly before storing
Waize	Tai vesting	και	 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 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.
	**	701	Spray with neem based pesticides against aphids
Ginger/turmeric	Vegetative stage	Rhizome rot	Under excessive moisture, there is every possibility of white was not in air on and transports.
			 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/	Fruit Drop	Harvest the mature fruit with stalk and store in dry places. Harvest the mature fruit with stalk and store in dry places.
	harvesting	Fruit Fly	Collect & dispose rotten fallen fruits/ install fruit-fly traps
	•		 Collect & dispose rotten fallen fruits/ install fruit-fly traps Dead wood pruning may be done after harvesting of crop
	•	Fruit Fly	Collect & dispose rotten fallen fruits/ install fruit-fly traps
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Banana	•	Fruit Fly Gummosis Sigatoka Leaf	 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 One sword sucker may be allowed after shooting (Flowering),
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	LIVESTOCKS					
Livestock	Stage	Disease	Precautionary Practices to be followed			
	General					
0 0	Damaged grain (not fungus contaminated) to be 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	 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. 			
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: 20th to 22nd 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: 101/2017/Tue

Dated:19th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Past weather summary not available	Mostly sunny to partly cloudy with possibility of light rainfall
	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 65-80% and 16-45% respectively. Wind direction is mainly S
	with wind speed range of 5-6 kmph.
Warning	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
D.	TT (FIELD CROPS
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
Widize	Tan vesting	Kat	 Use locally available traps to control rats menace
Jhum rice	Harvesting		Immediate harvesting of left-over rice advocated
			 Proper sun drying before storage.
			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/	iviacarity	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.
			 Spray with neem based pesticides against aphids
		HORT	TCULTURAL CROPS
Peach	Post-harvesting		Training & pruning of diseased/criss-cross branches to harvest
			more solar energy & 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 Output Description of the provided of t
		Guillilosis	 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	Bunching	Cold	 Cover newly emerged bunches with locally available sack to protect from cold/frost
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.
	8		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 Bees
			Box must be covered with straw/dry leaves to provide warmth
			LIVESTOCKS
			General
~ ~			e diverted for Poultry/livestock feeding
	_		the clock and water troughs/feeders should be regularly cleaned,
Livestock	Stage	Disease	Precautionary Practices to be followed
	4 11	FMD (high fever	
Pigs	All stages	and appearance	piglets and lukewarm food & water
	All stages	and appearance of mucous	 piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born
	All stages	and appearance of mucous membrane of the	• Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system
	All stages	and appearance of mucous membrane of the mouth and foot.)	 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)
	All stages	and appearance of mucous membrane of the	• Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system

Cattle	All stages 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 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	ntists (ICAR) or	0	f or KVK staff for measures against adverse conditions or call 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: 20th to 22nd December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

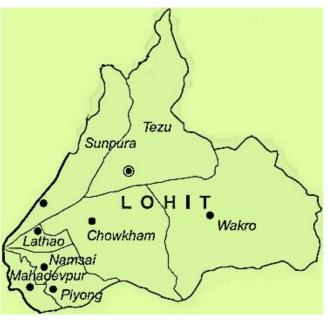


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Lohit

No: 100/2017/Fri

Dated:15th December, 2017



Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall = $0.0 \text{ mm } (\text{up to } 15^{\text{th}} \text{Dec})$	Mostly sunny to partly cloudy with no rainfall. Daily maximum
	and minimum temperature for the following period is predicted to be
	24-25°C and 09-11°C respectively. Expected morning and evening
	relative humidity will be 68-77% and 32-39% respectively. Wind
	direction is mainly S 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
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
1 Ca	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
		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/	Maturity	Leaf eating caterpillars/	Light irrigation is essential,
Knolkhol/		Aphids	• In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%)
Others		- -F	@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.
			• <u>To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with</u>
			FYM/ neem cake.
			Mulching should be done with locally available mulch,
			Earthing up of exposed rhizome,
Citrus	Maturity/	Fruit Drop	I Howard the motive fruit with stelly and store in dwy places
Citius	harvesting	Fruit Fly	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps
	8	Gummosis	Dead wood pruning may be done after harvesting of crop
			followed by spraying of fungicide, Carbendazim @ 1gm/lit of
			water.
Large Cardamom	Fruiting	Chirkey Disease	Breakdown the soil collected around the tree trunk
Large Cardamoni	Trutting	Chirkey Discuse	Romovo dry/disposed/old tillers & hronches & snroy
Banana		1	• Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
	All stages	Sigatoka Leaf	Bio NPK@ 2ml/lit water for proper growth.
	All stages	Sigatoka Leaf spot	 Bio NPK@ 2ml/lit water for proper growth. One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the
	All stages	-	 Bio NPK@ 2ml/lit water for proper growth. 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
	All stages	-	 Bio NPK@ 2ml/lit water for proper growth. 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,
	All stages	-	 Bio NPK@ 2ml/lit water for proper growth. 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
Kiwi	All stages Harvesting	-	 Bio NPK@ 2ml/lit water for proper growth. 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
Kiwi	-	-	 Bio NPK@ 2ml/lit water for proper growth. 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 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials
	Harvesting	-	 Bio NPK@ 2ml/lit water for proper growth. 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 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.
Kiwi Pineapple	-	-	 Bio NPK@ 2ml/lit water for proper growth. 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 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition. Clean the vicinity of plants by weeding and loosen up the soil.
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Pineapple	Harvesting	-	 Bio NPK@ 2ml/lit water for proper growth. 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 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition. 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.
	Harvesting	-	 Bio NPK@ 2ml/lit water for proper growth. 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 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition. 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. Mulching with locally available materials like dry grass/paddy
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Pineapple	Harvesting	-	 Bio NPK@ 2ml/lit water for proper growth. 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 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition. 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. Mulching with locally available materials like dry grass/paddy straw recommended
Pineapple	Harvesting	-	 Bio NPK@ 2ml/lit water for proper growth. 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 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition. 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. 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 Cover the boxes with locally available dry grass or straw to
Pineapple Ginger/Turmeric	Harvesting	-	 Bio NPK@ 2ml/lit water for proper growth. 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 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition. 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. 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
Pineapple Ginger/Turmeric	Harvesting	-	 Bio NPK@ 2ml/lit water for proper growth. 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 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition. 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. 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 Cover the boxes with locally available dry grass or straw to

			LIVESTOCKS		
Livestock	Stage	Disease	Precautionary Practices to be followed		
	General				
0 0	Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding				
			the clock and water troughs/feeders should be regularly cleaned,		
Pigs	All stages	FMD (high fever 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.) 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 		
			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		
Million		1 14112	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: 20th to 22nd 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: 101/2017/Tue

Dated:19th December, 2017



Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall = $3.8 \text{ mm (Roing) (up to } 15^{th} \text{Dec)}$	Mostly sunny with no possibility of rainfall. Daily maximum and
	minimum temperature for the following period is predicted to be 24-
	25°C and 10-11°C respectively. Expected morning and evening
	relative humidity will be 64-70% and 24-33% respectively. 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

- 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.
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		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	CICULTURAL 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		 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
		1	Honey Bees
Honey bees			Box must be covered with straw/dry leaves to provide warmth
	l .		LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed General
0 0			oe diverted for Poultry/livestock feeding I the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance of mucous	

		nembrane of the nouth and foot.) Swine Fever	 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		 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

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

Agro-met Advisory Bulletin

(Period: 20th to 22nd 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: 101/2017/Tue

Dated:19th December, 2017



Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall = NA	Mostly sunny to partly cloudy with no possibility of rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 24-25°C and 09-11°C respectively. Expected
	morning and evening relative humidity will be 68-77% and 32-39%
	respectively. Wind direction is mainly S with speed range of 5
	kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Pea	Sowing		• Treat pea with rhizobium@2gm/kg seed before sowing or treat
			with carbendazim @ 2g/kg seed before sowing
			Provide irrigation to plants
			• Complete sowing by 1 st fortnight of Nov. for better yield
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Rice	Maturity/	Gundhi bug/	harvest the mature crop
	Harvesting	leaf folder/ rice skipper	• proper sun-drying before storag
Maize	Harvesting	Rat	 Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
Pulses	Vegetative	Blister beetle	irrigation and 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,
			• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of
			water, Folion amony of Dithono M 45@2.5 c/litro of vyotan 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/		Aphids	caterpillars has been reported. Spray Azadirachtin(0.015%)
Others			@6ml/litre of water when weather is clear.
		HODT	Spray with neem based pesticides against aphids CONTROL OF CONTROL C
Temperate fruits	After harvesting	HORT	 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 Output Description of the state of the
		Guillinosis	 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	Bunching	Cold	Cover newly emerged bunches with locally available sack to protect from cold/frost
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	Fruit	Fruit fly	Basin cleaning and manuring
	Development		Install fruit fly pheromone traps for collection and destruction
Laura Candaman	Emritin ~	Chiulana Diagona	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	Seedling		Mulching with locally available materials like dry grass/paddy
			straw recommended
			Proper drainage to be done and avoid water stagnation
Orchards			Prepare half moon terraces in fruit crops
STOTIAL G.S			(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
Tolso ::-1::-	Numa		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			
	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 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 			
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 Scien	ontact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or cal at 03795-226237/226247					

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Agro-met Advisory Bulletin

(Period: 20th to 22nd 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: 101/2017/Tue

Dated:19th December, 2017



Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall: 0.0 mm; T. Max: 30.0°C; T. Min: 16.0°C; RH: 66-91% (up to 15 th Dec)	Partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 25-27°C and 12-14°C respectively. Expected morning and evening relative humidity will be 64-71% and 36-43% respectively. Expected wind direction mainly WNW & WSW 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
D:	11 .:		FIELD CROPS
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	Provide irrigation to plants
		insects	 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,
Cabbage/ Cauliflower/ Knolkhol/ Others	Maturity	Leaf eating caterpillars/ Aphids	 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. 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
	T		TCULTURAL CROPS
Large Cardamom	_	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		 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
0 0			General e diverted for Poultry/livestock feeding
• Clean drink Goat	All stages	be ensured round	 the clock and water troughs/feeders should be regularly cleaned, Deworming for gastrointestinal parasite
Fishery	7 III stages		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	 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 	
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: 20th to 22nd 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: 101/2017/Tue

Dated:19th December, 2017



Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall = $0.0 \text{ mm } (\text{up to } 15^{\text{th}} \text{Dec})$	Mostly sunny to partly cloudy with possibility of light rainfall
	forecasted Daily maximum and minimum temperature for the
	following period is predicted to be 10-11°C and 01-02°C
	respectively. Expected morning and evening relative humidity will
	be 66-71% and 23-39% respectively. Wind direction is variable with
	probable speed range of 4-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- 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
	I .		FIELD CROPS
Rice	Harvesting		Sun-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
	<u> </u>		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	ICULTURAL CROPS
Temperate fruits	After harvesting		• Training & pruning of the temperate crops (apple/pears/peach) is recommended
Banana	Multiple stages	Sigatoka Leaf spot	 Cover the mature bunches with gunny bags to protect from cold and frost. One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core,
Kiwi	Harvesting		 Should be harvested by snapping their stalks 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 Cover the boxes with locally available dry grass to provide warmth.
	<u> </u>		LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Damaged gr	rain (not fungus co	ontaminated) to b	General oe diverted for Poultry/livestock feeding
	All stages	be ensured round FMD (high fever	the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	and appearance of mucous membrane of the mouth and foot.) Swine Fever	piglets and lukewarm food & water Close all the ventilation in the house and cover with locally available dry straw/grass
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.
0 4 0 .	4º 4 (TCLAD)	C1 1 A 91 C1 CC	T/T 7	T7 -4-66 6

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: 20th to 22nd 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: 101/2017/Tue

Dated:19th December, 2017



Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall = 0.0 mm (up to 15 th Dec)	Mostly sunny to partly cloudy with no possibility of rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 25-27°C and 12-14°C respectively. Expected
	morning and evening relative humidity will be 64-71% and 36-43%
	respectively. Wind direction is mainly W 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.
- 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

Harvesting Vegetative Vegetative Harvesting Vegetative	Cut-worm Powdery mildew Rat	 Sun-dry & properly winnow the grains for safe storage. In case of rain delay harvesting Regular monitoring of crop against attack of cutworm is advised, Spray neem-based insecticides against leaf eating insects Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace. VEGETABLES Weeding and application of fertilizer as per recommended doses is suggested in potato. Ridge should be properly made,
Vegetative Vegetative Harvesting	Powdery mildew Rat	 In case of rain delay harvesting Regular monitoring of crop against attack of cutworm is advised, Spray neem-based insecticides against leaf eating insects Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace. VEGETABLES Weeding and application of fertilizer as per recommended doses is suggested in potato. Ridge should be properly made,
Vegetative Harvesting	Powdery mildew Rat	 Regular monitoring of crop against attack of cutworm is advised, Spray neem-based insecticides against leaf eating insects Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace. VEGETABLES Weeding and application of fertilizer as per recommended doses is suggested in potato. Ridge should be properly made,
Vegetative Harvesting	Powdery mildew Rat	 advised, Spray neem-based insecticides against leaf eating insects Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace. VEGETABLES Weeding and application of fertilizer as per recommended doses is suggested in potato. Ridge should be properly made,
Harvesting	mildew Rat Red Ants/	 Spray neem-based insecticides against leaf eating insects Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace. VEGETABLES Weeding and application of fertilizer as per recommended doses is suggested in potato. Ridge should be properly made,
Harvesting	mildew Rat Red Ants/	 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace. VEGETABLES Weeding and application of fertilizer as per recommended doses is suggested in potato. Ridge should be properly made,
	Rat Red Ants/	 powdery mildew in black/green gram/pea Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace. VEGETABLES Weeding and application of fertilizer as per recommended doses is suggested in potato. Ridge should be properly made,
	Red Ants/	 Use locally available traps to control rats menace. VEGETABLES Weeding and application of fertilizer as per recommended doses is suggested in potato. Ridge should be properly made,
Vegetative	Red Ants/	 VEGETABLES Weeding and application of fertilizer as per recommended doses is suggested in potato. Ridge should be properly made,
Vegetative	Red Ants/	 Weeding and application of fertilizer as per recommended doses is suggested in potato. Ridge should be properly made,
Vegetative		doses is suggested in potato.Ridge should be properly made,
	Late blight	 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.
Maturity	Leaf eating	 Light irrigation is essential,
	_	• In present weather conditions severe attack of leaf eating
	Aphids	caterpillars has been reported. Spray Azadirachtin(0.015%)
		@6ml/litre of water when weather is clear.
Empitina		Spray with neem based pesticides against aphids
Fruiting		Removing side shoots is an important job which prevents Output Description:
		the fruits being shaded by leaves.
		 Provide shed to protect from frost
		ICULTURAL CROPS
•	_	Harvest the mature fruit with stalk and store in dry places.
narvesting	•	Collect & dispose rotten fallen fruits/ install fruit-fly traps
	Guillilosis	 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
All stages	Sigatoka Leaf	One sword sucker may be allowed after shooting (Flowering),
· ·	spot	 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
Cowing		wateClean the vicinity of plants by weeding and loosen up the soil.
oowing		 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.
Harvisting	Fruit fly	Harvest with care and store in dry places
		 Install fruit fly pheromone traps for collection and destruction
		of the adult insects
Fruiting	Chirkey Disease	 Remove dry/diseased/old tillers & branches & spray
		Bio NPK@ 2ml/lit water for proper growth.
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
Stage	Disagea	Precautionary Practices to be followed
Stage	Disease	General General
n (not fungus c	contaminated) to b	
_		the clock and water troughs/feeders should be regularly cleaned,
	Fruiting Maturity/ harvesting All stages Harvisting Fruiting Vegetative Stage n (not fungus of	Fruiting HORT Maturity/ harvesting Fruit Drop Fruit Fly Gummosis Owing Harvisting Fruit fly Fruiting Chirkey Disease Vegetative Stage Disease In (not fungus contaminated) to be gwater should be ensured round

		and appearance of mucous membrane of the mouth and foot.) Swine Fever	 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: 20th to 22nd 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: 101/2017/Tue

Dated:19th December, 2017



Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall = 0.0 mm (up to 15 th Dec)	Mostly sunny with no possibility of rainfall. Daily maximum and
	minimum temperature for the following period is predicted to be 20-
	22°C and 06-08°C respectively. Expected morning and evening
	relative humidity will be 68-74% and 22-37% respectively. Wind
	direction is variable with speed range of 4-5 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Harvesting		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 Compared to the control rate of the control rat
G 11 /	36.1		VEGETABLES
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.
			 Spray with neem based pesticides against aphids
Potato	Vegetative	Red Ants/	 Ridge should be properly made,
		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
		ПОРТ	management of potato late blight. ICULTURAL CROPS
Temperate fruits	After harvesting	HUKI	
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
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
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
			Honey Bees
Honey bees			Box must be covered with straw/dry leaves to provide
Tioney bees			warmth
			Provide sugar syrup
			a sa sa sa garaga a ya a y
			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 of mucous	piglets and lukewarm food & water
		membrane of the	• Iron injection within 10 days of birth is advised to newly born
		mouth and foot.)	piglets if they are kept in confined systemDeworm 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,
	l		- Reep infected ainmais separated from the heating ones,

Fishery			 Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements 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	ntists (ICAR) or	State Agril Staff	f or KVK staff for measures against adverse conditions or call

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

at 03795-226237/226247

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 20th to 22nd December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

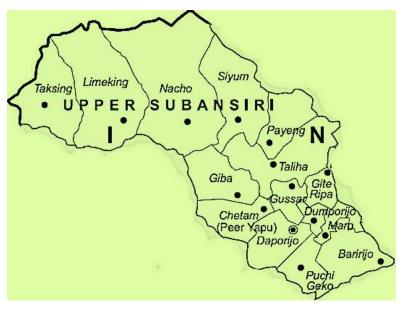


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Upper Subansiri

No: 101/2017/Tue

Dated:19th December, 2017



Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Daporijo: 6.0 mm (up to 15 th Dec)	Mostly sunny with no possibility of rainfall. Daily maximum and
	minimum temperature for the following period is predicted to be 24-
	25°C and 10-11°C respectively. Expected morning and evening
	relative humidity will be 64-70% and 24-33% 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

- 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
Rice	Harvesting		FIELD CROPSSun-dry & properly winnow the grains for safe storage.
Pea	Sowing		 Treat pea with rhizobium@2gm/kg seed before sowing or treat
100	Sowing		with carbendazim @ 2g/kg seed before sowing
			Provide irrigation to plants
			• Complete sowing by 1 st fortnight of Nov. for better yield
Black Gram &	Vegetative		Need based foliar spray of Sulfex@2g/lit water to control
Green Gram			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 VECETABLES
Potato	Vegetative	Red Ants/	 VEGETABLES Weeding and application of fertilizer as per recommended
	, egetative	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/ Knolkhol/		caterpillars/ Aphids	• In present weather conditions severe attack of leaf eating
Others		Apilius	caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.
			 Spray with neem based pesticides against aphids
		HORT	
Temperate fruits	After harvesting		• Training & pruning of the temperate crops (apple/pears/peach) is recommended
Large Cardamom	Fruiting	Chirkey Disease	
		-	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 Dead wood proving may be done often horsesting of group.
		Guillinosis	 Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of
			water.
		G 11	Breakdown the soil collected around the tree trunk
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 box
			Add insulation and ventilation systems
T * 4 *	G4	D'	LIVESTOCKS Description of the followed by followed by the fol
Livestock	Stage	Disease	Precautionary Practices to be followed General
Damaged gr	ain (not fungus co	ontaminated) to b	General be diverted for Poultry/livestock feeding
0 0			d 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	1 0
		membrane of the	• Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system
		mouth and foot.)	pigiets if they are kept in commea system
		Swine Fever	viz. Fento Plus @ 1 tablet per 30 kg body weight
			In present weather conditions vaccinate against swine force (Vaccines excileble in State Vateringer, Ports)
Cattle	All stages	FMD	 fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and

Poultry	All stages		 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

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)

at 03795-226237/226247

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 20th to 22nd 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: 101/2017/Tue

Dated:19th December, 2017



Weather summery of the previous week	Weather forecast valid up to 24 th Dec'2017
Rainfall = Bomdila: 0.0; Bhalukpong: 0.0	Mostly sunny with no possibility of rainfall. Daily maximum and
mm (up to 15 th Dec)	minimum temperature for the following period is predicted to be 20-
	22°C and 06-08°C respectively. Expected morning and evening
	relative humidity will be 68-74% and 22-37% respectively. Wind
	direction variable NNW with speed range of 4-5 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
Rice	Harvesting	l e	FIELD CROPS Sun day 8 properly winness the grains for safe storage
Rice	Traivesting		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/ 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.
			 Spray with neem based pesticides against aphids
m	A.C. 1	HORT	ICULTURAL CROPS
Temperate fruits	After harvesting		 Training & pruning of the temperate crops (apple/pears/peach) is recommended
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly	Harvest the mature fruit with stalk and store in dry places. Collect & displace rotten follow family install family fly trong.
	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.
	D 1:	G 11	Breakdown the soil collected around the tree trunk
Banana	Bunching	Cold	 Cover newly emerged bunches with locally available sack to protect from cold/frost
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			Provide sugar syrup near the box
			 Add insulation and ventilation systems
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
	~g		General
			e diverted for Poultry/livestock feeding
	ing water should	be ensured round	the clock and water troughs/feeders should be regularly cleaned,
Fishery	A 11	EMD (1: 1 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	De worm with and homietic drugs (particularly rupe worms)
		Swille 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),
<u></u>	1	FMD	
Cattle	All stages	LMD	 Provide proper bedding materials especially to new-born and
Cattle	All stages	LMID	lukewarm food & water
Cattle	All stages	FMD	

			 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 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	tists (ICAP) or	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	itists (ICAR) or s	State Agril Staf	f or KVK staff for measures against adverse conditions or call

at 03795-226237/226247

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

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 20th to 22nd 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: 101/2017/Tue

Dated:19th 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 24 th Dec'2017
Basar: Rainfall = 5.8 mm. T. Max: 20.1°C,	Mostly sunny with no possibility of rainfall. Daily maximum and
T. Min: 6.2°C, RH: 51-95%, Wind Speed: 4-	minimum temperature for the following period is predicted to be 25-
5 kmph, Wind Direction: SW	27°C and 11-12°C respectively. Expected morning and evening
	relative humidity will be 66-74% and 26-32% respectively. Wind
	direction is mainly ESE variable with speed range of 4-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is advocated
- 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 & 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	v egetati ve	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
		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
G 11	3.6	Y 6	management of potato late blight.
Cabbage/ Cauliflower/	Maturity	Leaf eating caterpillars/	 Light irrigation is essential, 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	• <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,
		нарт	
Tommonoto fruito	A fton homiostina	IIOKI	TICULTURAL CROPS
Temperate fruits	After harvesting		Training & pruning of the temperate crops (apple/pears/peach) is recommended
Large Cardamom	Fruiting	Chirkey Disease	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
	Fruiting Maturity/	Chirkey Disease Fruit Drop	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. Harvest the mature fruit with stalk and store in dry places.
Large Cardamom	Fruiting	Chirkey Disease Fruit Drop Fruit Fly	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps
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Large Cardamom	Fruiting Maturity/	Chirkey Disease Fruit Drop Fruit Fly	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps
Large Cardamom Citrus	Fruiting Maturity/ harvesting	Chirkey Disease Fruit Drop Fruit Fly Gummosis	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. 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	Fruiting Maturity/	Chirkey Disease Fruit Drop Fruit Fly Gummosis Sigatoka Leaf	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. 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 One sword sucker may be allowed after shooting (Flowering),
Large Cardamom Citrus	Fruiting Maturity/ harvesting	Chirkey Disease Fruit Drop Fruit Fly Gummosis	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. 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 One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the
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Large Cardamom Citrus	Fruiting Maturity/ harvesting	Chirkey Disease Fruit Drop Fruit Fly Gummosis Sigatoka Leaf	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. 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 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
Large Cardamom Citrus Banana	Fruiting Maturity/ harvesting All stages	Chirkey Disease Fruit Drop Fruit Fly Gummosis Sigatoka Leaf	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. 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 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
Large Cardamom Citrus	Fruiting Maturity/ harvesting	Chirkey Disease Fruit Drop Fruit Fly Gummosis Sigatoka Leaf	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. 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 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 Clean the vicinity of plants by weeding and loosen up the soil.
Large Cardamom Citrus Banana	Fruiting Maturity/ harvesting All stages	Chirkey Disease Fruit Drop Fruit Fly Gummosis Sigatoka Leaf	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. 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 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 Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material.
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Large Cardamom Citrus Banana Pineapple	Fruiting Maturity/ harvesting All stages	Chirkey Disease Fruit Drop Fruit Fly Gummosis Sigatoka Leaf	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. 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 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 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. Mulching with locally available materials like dry grass/paddy straw recommended
Large Cardamom Citrus Banana Pineapple	Fruiting Maturity/ harvesting All stages	Chirkey Disease Fruit Drop Fruit Fly Gummosis Sigatoka Leaf	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. 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 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 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. Mulching with locally available materials like dry grass/paddy straw recommended Earthing up of ginger/turmeric along with basal application of
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Large Cardamom Citrus Banana Pineapple Ginger/Turmeric	Fruiting Maturity/ harvesting All stages	Chirkey Disease Fruit Drop Fruit Fly Gummosis Sigatoka Leaf	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. 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 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 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. 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 Cover the boxes with locally available dry grass or straw to
Large Cardamom Citrus Banana Pineapple Ginger/Turmeric	Fruiting Maturity/ harvesting All stages	Chirkey Disease Fruit Drop Fruit Fly Gummosis Sigatoka Leaf	 Training & pruning of the temperate crops (apple/pears/peach) is recommended Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth. 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 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 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. 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 Cover the boxes with locally available dry grass or straw to

T.	G.		LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
ъ .	• (, , ,		General
			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	 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
		mouth and foot.) Swine Fever	 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 Sta Veterinary Dept.)
			Provide feed supplements
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold busing gunny bags/plastic sheets around the poultryshed durin night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newborn chicks.
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at months of age and repeat after that 6 months interval by sucutaneous route. Pregnant animals above 7 months of pregnancy should lavoided.

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