Agro-met Advisory Bulletin

(Period: 16th to 19th December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

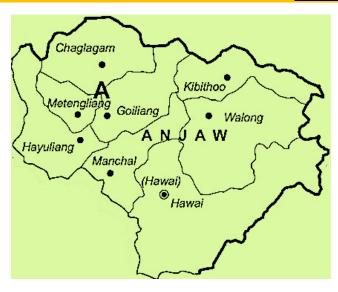


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Anjaw

No: 100/2017/Fri

Dated:15th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 20 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 21-22°C and 09-10°C respectively. Expected morning and evening relative humidity will be 73-78% and 21-31% respectively. Wind direction is mainly variable and a speed range of 5-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

- Spraying operation should be done only on dry/clear weather
- 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 & Green Gram	Vegetative	Powdery mildew	Need based foliar spray of Sulfex@2g/lit water to control
Green Grain		mindew	powdery mildew in black/green gram/pea
Cabbaga	Motority	Loof acting	VEGETABLES
Cabbage/ Cauliflower/	Maturity	Leaf eating caterpillars/	Light irrigation is essential,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.
D	**	D 14 //	Spray with neem based pesticides against aphids
Potato	Vegetative	Red Ants/ 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.
		HORT	TICULTURAL CROPS
Banana	Bunching	Cold	 Cover newly emerged bunches with locally available sack to protect from cold/frost
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	• 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
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.
	•		LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Poultry	All stages		 Day old chick-Maintain warmth by lighting,
			 In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during
			night,
			• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly
Fishery			born chicks.Application of quick lime is highly recommended in order
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
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 mouth and foot.)	pigious ir tire y tire in per in committee system
		Swine Fever	viz. Fento Plus @ 1 tablet per 30 kg body weight
			 In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	 Provide proper bedding materials especially to new-born and lukewarm food & water
			Heavy mortality in cloven footed animals has been reported.
			 Supportive treatment of infected animals under supervision of veterinary department officials,
			 Avoid mixing of infected and healthy animals,
			 Keep infected animals separated from the healthy ones,
			Vaccinate the healthy animals against FMD (Through State Vateringry Popt.)
			Veterinary Dept.)Provide feed supplements
	L	1	- 110vide 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			

Agro-met Advisory Bulletin

(Period: 16th to 19th December, 2017)

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

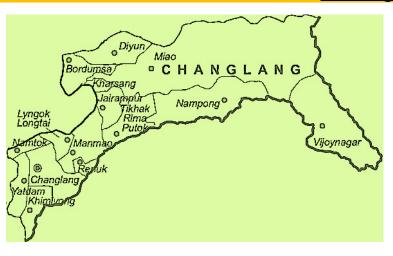


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Changlang

No: 100/2017/Fri

Dated:15th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Rainfall = Changlang: 0.0 mm Miao: 0.0	Generally clear/dry weather forecasted. Daily maximum and
mm	minimum temperature for the following period is predicted to be 25-
	27°C and 13-15°C respectively. Expected morning and evening
	relative humidity will be 75-78% and 19-33% respectively. Wind
	direction is mainly E & ESE with speed range of 5-6 kmph.
Warning	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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



Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.In case of rain delay harvesting
Pea	Vegetative	Cut-worm	 Regular monitoring of crop against attack of cutworm is advised,
			Spray neem-based insecticides against leaf eating insects
Black Gram & Green Gram	Vegetative	Powdery mildew	 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Maize	Harvesting	Rat	 Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace.
	'	<u>'</u>	VEGETABLES
Cabbage/	Maturity	Leaf eating	Light irrigation is essential,
Cauliflower/ Knolkhol/ Others		caterpillars/ Aphids	 In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids
Potato	Vegetative	Red Ants/ Cutworm	 Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,
Tomato	Fruiting		Removing side shoots is an important job which prevents
			the fruits being shaded by leaves.
			 Provide shed to protect from frost
		HORT	TCULTURAL CROPS
Citrus	Maturity/	Fruit Drop	Harvest the mature fruit with stalk and store in dry places.
	harvesting	Fruit Fly Gummosis	 Collect & dispose rotten fallen fruits/ install fruit-fly traps Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Banana	All stages	Sigatoka Leaf spot	 One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate
Pineapple	Sowing		 Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.
Guava	Harvisting	Fruit fly	 Harvest with care and store in dry places Install fruit fly pheromone traps for collection and destruction of the adult insects
Large Cardamom	Fruiting	Chirkey Disease	Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
Ginger/Turmeric	Vegetative		Mulching with locally available materials like dry grass/paddy straw recommended to retain soil moisture
			Honey Bees
Honey bees			 Box must be covered with straw/dry leaves to provide warmth Provide sugar syrup
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Damaged gr	rain (not fungus c	contaminated) to b	General be diverted for Poultry/livestock feeding I the clock and water troughs/feeders should be regularly cleaned,
Goat		DE CHOUTEU TOUNG	
Pigs	All stages 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 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. 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

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(Period: 16th to 19th 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: 100/2017/Fri

Dated:15th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Rainfall = 1.0 mm (Anini)	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 18-
	19°C and 09-11°C respectively. Expected morning and evening
	relative humidity will be 74-84% and 16-31% respectively. Wind
	direction is mainly S with speed range of 6-7 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

- 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	FIFI	Precautionary Practices to be followed CROPS
Rice	Harvesting		FIELD •	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
		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
			• TABORE	Use locally available traps to control rats menace
Cabbage/	Maturity	Loof oating	ı	TABLES Light importion is accounted.
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
Potato	Vegetative	Red Ants/	•	Red Ants: - Drenching with Chlorpyriphos @ 2 ml per
		Cutworm		litre of water,
Cincar/turmaria	Vagatativa staga	Rhizome rot	•	Use neem-based insecticides against cut-worm
Ginger/turmeric	Vegetative stage	Kilizoille fot	•	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,
		HODE		Earthing up of exposed rhizome, CURAL CROPS
Peach	Post-harvesting	HUK	ICULI •	Training & pruning of diseased/criss-cross branches to harvest
1 cacii	1 Ost-hai vesting		•	more solar energy & for proper growth.
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.
Banana	All stages	Sigatoka Leaf	•	Breakdown the soil collected around the tree trunk One sword sucker may be allowed after shooting (Flowering),
Danana	All stages	spot	•	Periodical removal of side suckers by cutting them above the
		· F		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
17:	TT .:			wate
Kiwi	Harvesting		•	Should be harvested by snapping their stalks
			•	Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.
Large Cardamom	Fruiting	Chirkey Disease	•	Remove dry/diseased/old tillers & branches & spray
C	S	Ž		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.
**			I	ey Bees
Honey bees			•	Cover the boxes with locally available dry grass or straw to
				provide warmth
			LIVES	STOCKS
Livestock	Stage	Disease		Precautionary Practices to be followed

			he clock and water troughs/feeders should be regularly cleaned
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 be
		membrane of the	piglets if they are kept in confined system
		mouth and foot.)	• Deworm with anti helmetic drugs (particularly Tapeworms)
		Swine Fever	viz. Fento Plus @ 1 tablet per 30 kg body weight
			• In present weather conditions vaccinate against swine
			fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	 Provide proper bedding materials especially to new-born lukewarm food & water
			 Heavy mortality in cloven footed animals has been reported
			Supportive treatment of infected animals under supervision
			veterinary department officials,
			 Avoid mixing of infected and healthy animals,
			 Keep infected animals separated from the healthy ones,
			• Vaccinate the healthy animals against FMD (Through S
			Veterinary Dept.)
			 Provide feed supplements
Poultry	All stages		 Day old chick-Maintain warmth by lighting,
			• In present weather conditions protect the birds from cold
			using gunny bags/plastic sheets around the poultryshed duringht,
			 Provide heat by lighting 100W bulb @ 1 bulb per 20 ne born chicks.
Mithun		FMD	Polyvalent FMD vaccine with serotype O, A and Asia a
			months of age and repeat after that 6 months interval by s
			cutaneous route.
			• Pregnant animals above 7 months of pregnancy should
			avoided.

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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: 100/2017/Fri

Dated:15th December, 2017



Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Rainfall = 0.0 mm	Generally clear/dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 24-
	25°C and 12-13°C respectively. Expected morning and evening
	relative humidity will be 81-84% and 29-42% 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		irrigation and weeding advocated
Tuises	Vegetative		VEGETABLES
Cabbage/ Cauliflower/ Knolkhol/	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%)
Others Potato	Vegetative	Red Ants/ Late blight	 @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids 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.
			TICULTURAL CROPS
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Banana	Bunching	Cold	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	inicctiony	 Mulching with locally available materials like dry grass/paddy straw recommended Remove excess suckers to increase fruit size and improve quality.
Ginger/Turmeric	Seedling		 Mulching with locally available materials like dry grass/paddy straw recommended Proper drainage to be done and avoid water stagnation Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Orchards			 Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards Agroforestry
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
Токо ранн	ruisery		Timing of harsery polyougs for fulsing of taxopaint seedings
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed General
Clean drink	ing water should	be ensured round	e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance	 Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system

Poultry	All stages	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), 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 		
Cattle	All stages	FMD	 born chicks. 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: 16th to 19th 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: 100/2017/Fri

Dated:15th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 20 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%	minimum temperature for the following period is predicted to be 26-
	27°C and 15-16°C respectively. Expected morning and evening
	relative humidity will be 71-74% and 24-57% respectively.
	Expected wind direction is mainly S with speed range of 3-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed	
			FIELD CROPS	
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.In case of rain delay harvesting	
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	
2 0 0	· ogottur · o	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 storingUse locally available traps to control rats menace	
			VEGETABLES	
Cabbage/	Maturity	Leaf eating	 Light irrigation is essential, 	
Cauliflower/ Knolkhol/ Others		caterpillars/ Aphids	• In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.	
			Spray with neem based pesticides against aphids	
Potato	Vegetative	Red Ants/ Cutworm	• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,	
			Use neem-based insecticides against cut-worm	
Ginger/turmeric	Vegetative stage	Rhizome rot	Under excessive moisture, there is every possibility of	
			 rhizome rot in ginger and turmeric. To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake. Mulching should be done with locally available mulch, 	
			 Earthing up of exposed rhizome, 	
		HORT	TICULTURAL CROPS	
Citrus	Maturity/	Fruit Drop	Harvest the mature fruit with stalk and store in dry places.	
	harvesting	Fruit Fly	Collect & dispose rotten fallen fruits/ install fruit-fly traps	
		Gummosis	 Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk 	
Banana	All stages	Sigatoka Leaf		
Banana	All stages	spot	 One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate 	
Kiwi	Harvesting		 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials 	
			and transported to the market in hard condition.	
Pineapple	Sowing		 Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 	
			20EC@ 2ml/lt of water to protect against soil borne disease and insect.	
Ginger/Turmeric	Vegetative		Mulching with locally available materials like dry grass/paddy straw recommended	
			• Earthing up of ginger/turmeric along with basal application of required fertilizer should be done	
			Honey Bees	
Honey bees			Cover the boxes with locally available dry grass or straw to provide warmth	
			LIVESTOCKS	
Livestock	Stage	Disease	Precautionary Practices to be followed	
LIVESIUCK	Diage	Discase	General	
Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding				

Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Provide proper bedding materials especially to new-born piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	 Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through Stat Veterinary Dept.) Provide feed supplements
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold b using gunny bags/plastic sheets around the poultryshed durin night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newl born chicks.
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at months of age and repeat after that 6 months interval by sub cutaneous route. Pregnant animals above 7 months of pregnancy should b avoided.

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

Agro-met Advisory Bulletin

(Period: 16th to 19th 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: 100/2017/Fri

Dated:15th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Past weather summary not available	Generally clear dry weather forecasted. Daily maximum and
	minimum temperature for the following period is predicted to be 18-
	19°C and 09-11°C respectively. Expected morning and evening
	relative humidity will be 74-84% and 16-31% respectively. Wind
	direction is mainly S with wind speed range of 6-7 kmph.
Warning	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			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 Use locally available traps to control rats menace
Jhum rice	Harvesting		 Immediate harvesting of left-over rice advocated Proper sun drying before storage.
			VEGETABLES
Cabbage/	Maturity	Leaf eating	Light irrigation is essential,
Cauliflower/ Knolkhol/ Others	j	caterpillars/ Aphids	• In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.
_			Spray with neem based pesticides against aphids
Potato	Vegetative	Red Ants/ 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.
		HORT	ICULTURAL CROPS
Peach	Post-harvesting		Training & pruning of diseased/criss-cross branches to harvest more solar energy & for proper growth.
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.
Banana	Bunching	Cold	 Breakdown the soil collected around the tree trunk 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. 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
• Clean drink Livestock		be ensured round Disease	the clock and water troughs/feeders should be regularly cleaned, Precautionary Practices to be followed
Pigs	Stage All stages	FMD (high fever	v
rigs	All stages	and appearance of mucous membrane of the mouth and foot.) Swine Fever	 piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight
			 In present weather conditions vaccinate against swine 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.

Poultry	All stages		 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
3.63.4		F1 (D	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	itists (ICAR) or	State Agril Staff	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)

Agro-met Advisory Bulletin

(Period: 16th to 19th December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

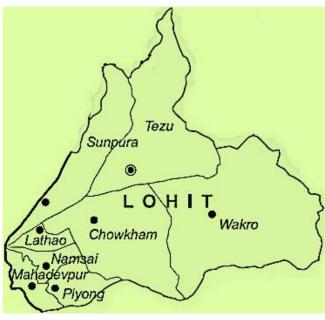


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Lohit

No: 100/2017/Fri

Dated:15th December, 2017



Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Rainfall = 0.0 mm	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 12-13°C respectively. Expected morning and evening
	relative humidity will be 81-84% and 27-42% 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
		insects	•	Mulching with locally available materials like straw/dray grass
				to retain soil moisture
			•	Spray neem-based pesticides against leaf eating insects
Maize	Harvesting	Rat	•	Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
			VEGE	FABLES
Potato	Vegetative	Red Ants/	•	Red Ants: - Drenching with Chlorpyriphos @ 2 ml per
	-	Cutworm		litre of water,
			•	Use neem-based insecticides against cut-worm
Cabbage/	Maturity	Leaf eating	•	Light irrigation is essential,
Cauliflower/ Knolkhol/		caterpillars/	•	In present weather conditions severe attack of leaf eating
Others		Aphids		caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear.
Officis				
Ginger/turmeric	Vegetative stage	Rhizome rot	•	Spray with neem based pesticides against aphids Under excessive moisture, there is every possibility of
Ginger/turnierie	v egetative stage	Killzonie fot		rhizome rot in ginger and turmeric.
			•	To manage the disease, provide adequate drainage and
				apply Trichoderma harzianum @ 50 g/bed along with
				FYM/ neem cake.
			•	Mulching should be done with locally available mulch,
			•	Earthing up of exposed rhizome,
			ICULT	TURAL CROPS
Citrus	Maturity/	Fruit Drop	•	Harvest the mature fruit with stalk and store in dry places.
	harvesting	Fruit Fly	•	Collect & dispose rotten fallen fruits/ install fruit-fly traps
		Gummosis	•	Dead wood pruning may be done after harvesting of crop
				followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.
			•	Breakdown the soil collected around the tree trunk
Large Cardamom	Fruiting	Chirkey Disease	•	Remove dry/diseased/old tillers & branches & spray
	8			Bio NPK@ 2ml/lit water for proper growth.
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
T7' '	TT			wate
Kiwi	Harvesting		•	Should be harvested by snapping their stalks
			•	Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.
Pineapple	Sowing		•	Clean the vicinity of plants by weeding and loosen up the soil.
- mouppio	~~s			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.
			<u> </u>	Mulching with locally available materials like dry grass/paddy
Ginger/Turmeric	Vegetative		_	
Ginger/Turmeric	Vegetative		•	
Ginger/Turmeric	Vegetative		•	straw recommended
Ginger/Turmeric	Vegetative		•	
Ginger/Turmeric	Vegetative			straw recommended Earthing up of ginger/turmeric along with basal application of
Ginger/Turmeric Honey bees	Vegetative			straw recommended Earthing up of ginger/turmeric along with basal application of required fertilizer should be done by Bees Cover the boxes with locally available dry grass or straw to
·	Vegetative		Hone	straw recommended Earthing up of ginger/turmeric along with basal application of required fertilizer should be done y Bees
·	Vegetative		Hone	straw recommended Earthing up of ginger/turmeric along with basal application of required fertilizer should be done by Bees Cover the boxes with locally available dry grass or straw to
·	Vegetative		Hone	straw recommended Earthing up of ginger/turmeric along with basal application of required fertilizer should be done by Bees Cover the boxes with locally available dry grass or straw to
_	Vegetative		Hone	straw recommended Earthing up of ginger/turmeric along with basal application of required fertilizer should be done by Bees Cover the boxes with locally available dry grass or straw to
	Vegetative		Hone	straw recommended Earthing up of ginger/turmeric along with basal application of required fertilizer should be done by Bees Cover the boxes with locally available dry grass or straw to

Livestock	Stage	Disease	Precautionary Practices to be followed		
			General		
			e diverted for Poultry/livestock feeding		
			the clock and water troughs/feeders should be regularly cleaned,		
Pigs	All stages	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: 16th to 19th 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: 100/2017/Fri

Dated:15th December, 2017



Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Rainfall = 3.8 mm (Roing)	Mostly sunny with no possibility of rainfall. Daily maximum and
	minimum temperature for the following period is predicted to be 23-
	24°C and 12-14°C respectively. Expected morning and evening
	relative humidity will be 72-84% and 21-40% respectively. Wind
	direction is variable with speed range of 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
Rice	Harvesting		FIELD •	CROPS Sun-dry & properly winnow the grains for safe storage.
Black Gram &	Vegetative		•	Need based foliar spray of Sulfex@2g/lit water to control
Green Gram	S			powdery mildew in black/green gram/pea
Pea	Vegetative	Leaf-eating	•	Provide irrigation to plants
		insects	•	Spray neem-based insecticides against leaf eating
G 1	**			insects
Soybean	Harvesting	D .	•	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
D	**		l	TABLES CONTRACTOR OF THE PROPERTY OF THE PROPE
Potato	Vegetative	Red Ants/ Cutworm	•	Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Spray neem-based insecticides against cut-worm
Cabbage/	Maturity	Leaf eating	•	Light irrigation is essential,
Cauliflower/ Knolkhol/		caterpillars/	•	In present weather conditions severe attack of leaf eating
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	ICULT	URAL CROPS
Large Cardamom	Fruiting	Chirkey Disease	•	Remove dry/diseased/old tillers & branches & spray 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
		Guilliosis	•	Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of
				water.
D	36.1.1		•	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
		Spor		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
TT 1			l	y Bees
Honey bees			•	Box must be covered with straw/dry leaves to provide warmth
				warmul
			T TT -	STRO CAYO
Livestock	Stogo	Disease	LIVES	Processionary Practices to be followed
Livestock	Stage	Disease	Ger	Precautionary Practices to be followed neral
0 0			e divert	ed for Poultry/livestock feeding
• Clean drink Pigs	All stages	FMD (high fever		ek and water troughs/feeders should be regularly cleaned, Iron injection within 10 days of birth is advised to newly born
5-	58-5	and appearance		piglets if they are kept in confined system
		of mucous	•	Deworm with anti helmetic drugs (particularly Tapeworms)
		membrane of the mouth and foot.)		viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines
		Swine Fever		available in State Veterinary Depts),

Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultry shed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Cattle	All stages	FMD	 Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Goat	All stages		Deworming for gastrointestinal parasite

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

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

Agro-met Advisory Bulletin

(Period: 16th to 19th 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: 100/2017/Fri

Dated:15th December, 2017



Weather summery of the previous week	Weather forecast valid up to 20 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 12-13°C respectively. Expected
	morning and evening relative humidity will be 81-84% and 27-42%
	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 1st 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 storingUse locally available traps to control rats menace
Pulses	Vegetative	Blister beetle	irrigation and weeding advocated
			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	Vacatation	Red Ants/	Spray with neem based pesticides against aphids Pidge should be granged and a
Potato	Vegetative	Late blight	• Ridge should be properly made,
		Late origin	 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	ICULTURAL CROPS
Citrus	Maturity/	Fruit Drop	 Harvest the mature fruit with stalk and store in dry places.
	harvesting	Fruit Fly	 Collect & dispose rotten fallen fruits/ install fruit-fly traps
		Gummosis	 Dead wood pruning may be done after harvesting of crop
			followed by spraying of fungicide, Carbendazim @ 1gm/lit of
			water.
Peach	Post-harvesting		Breakdown the soil collected around the tree trunk Training & pruning of disposed/ories proces branches to hornest.
Peach	Post-narvesting		 Training & pruning of diseased/criss-cross branches to harvest more solar energy & for proper growth.
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to
Bununu	Buneming	0014	protect from cold/frost
Kiwi	Harvesting		Should be harvested by snapping their stalks
	C		• 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.
Guava	Fruit	Fruit fly	Basin cleaning and manuring
	Development		• 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	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
			(orange/banana/apple/peach) grown in steep slopes to prevent
			nutrient loss during heavy downpour.
			 Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
			Agroforestry
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
TORO pulli	11015013		
TT 1		I	Honey Bees
Honey bees			 Box must be covered with straw/dry leaves to provide
₁ - 1			warmth

	LIVESTOCKS				
Livestock	Stage	Disease	Precautionary Practices to be followed		
	General Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,				
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever			
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	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: 16th to 19th 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: 100/2017/Fri

Dated:15th December, 2017



Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Rainfall: 0.0 mm; T. Max: 30.0°C; T. Min: 16.0°C; RH: 66-91%	Mostly sunny with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 15-16°C respectively. Expected morning and evening relative humidity will be 75-79% and 32-48% 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

	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		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
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.
Potato	Vegetative	Red Ants/ Cutworm	 Spray with neem based pesticides against aphids Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,
			Spray neem-based insecticides against cut-worm
		HORT	ICULTURAL CROPS
Large Cardamom	Fruiting	Chirkey Disease	• Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Banana M	ultiple 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 So	owing		 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			 Box must be covered with straw/dry leaves to provide warmth
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Damaged grain		ontaminated) to b	General e diverted for Poultry/livestock feeding
			the clock and water troughs/feeders should be regularly cleaned,
Goat	All stages		 Deworming for gastrointestinal parasite
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weightIn present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Poultry	All stages		Day old chick-Maintain warmth by lighting,

			 In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultry shed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Cattle	All stages	FMD	 Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
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: 16th to 19th 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: 100/2017/Fri

Dated:15th December, 2017



Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Rainfall = 0.0 mm	Sunny with no possibility of rainfall. Daily maximum and
	minimum temperature for the following period is predicted to be 09-
	10°C and 03-04°C respectively. Expected morning and evening
	relative humidity will be 50-54% and 11-20% 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		
D.	** .		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 		
			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.		
D	**	70.1.4	Spray with neem based pesticides against aphids		
Potato	Vegetative	Red Ants	• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,		
		HORT	TCULTURAL CROPS		
Peach	Post-harvesting		Training & pruning of diseased/criss-cross branches to harvest more solar energy & for proper growth.		
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		
Annla	Post hornosting		and transported to the market in hard condition.		
Apple	Post-harvesting		Pruning of dead and diseased branches advocatedApply Bordeaux paste after pruning		
Orchards			Prepare half moon terraces in fruit crops		
orena as			(orange/banana/apple/peach) grown in steep slopes to prevent		
			nutrient loss during heavy downpour.		
			• Follow proper drainage and earthing up practices in low		
			land/plain areas to avoid water stagnation in fruit orchards		
		<u> </u>	Honey Bees		
Honey bees			Provide sugar syrup near the box		
			Cover the boxes with locally available dry grass to provide		
			warmth. LIVESTOCKS		
T	- Ct	n:			
Livestock	Stage	Disease	Precautionary Practices to be followed		
• Domogod a	rain (not fungua a	antaminated) to b	General		
 Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned, 					
Pigs	All stages	FMD (high fever			
1153	Till stages	and appearance	piglets and lukewarm food & water		
		of mucous	Close all the ventilation in the house and cover with locally		
		membrane of the			
		mouth and foot.)	• Iron injection within 10 days of birth is advised to newly born		
		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, 		
			 Reep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State 		
			Vaccinate the healthy animals against FWD (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		
	I	I			
			using gunny bags/plastic sheets around the poultryshed during		

	•	night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.	
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

Agro-met Advisory Bulletin

(Period: 16th to 19th 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: 100/2017/Fri

Dated:15th December, 2017



Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Rainfall = 0.0 mm	Mostly sunny with no possibility of rainfall. Daily maximum and
	minimum temperature for the following period is predicted to be 25-
	27°C and 13-14°C respectively. Expected morning and evening
	relative humidity will be 75-78% and 19-33% respectively. Wind
	direction is mainly ESE & E with speed range of 5-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
D:	**	I	FIELD CROPS
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.In case of rain delay harvesting
Pea	Vegetative	Cut-worm	 Regular monitoring of crop against attack of cutworm is advised,
			Spray neem-based insecticides against leaf eating insects
Black Gram & Green Gram	Vegetative	Powdery mildew	Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Maize	Harvesting	Rat	 Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace.
			VEGETABLES
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.
Potato	Vegetative	Red Ants/	 Spray with neem based pesticides against aphids Ridge should be properly made,
Totato	Vegetative	Cutworm	 Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,
Tomato	Fruiting		Removing side shoots is an important job which prevents the fruits being shaded by leaves.
			 Provide shed to protect from frost
		HODT	CICULTURAL CROPS
Citrus	Maturity/	Fruit Drop	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. Breakdown the soil collected around the tree trunk
Banana	All stages	Sigatoka Leaf	One sword sucker may be allowed after shooting (Flowering),
	Ü	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. Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.
Guava	Harvisting	Fruit fly	 Harvest with care and store in dry places Install fruit fly pheromone traps for collection and destruction of the adult insects
Large Cardamom	Fruiting	Chirkey Disease	
Ginger/Turmeric	Vegetative		Mulching with locally available materials like dry grass/paddy straw recommended to retain soil moisture
			Honey Bees
			Box must be covered with straw/dry leaves to provide warmth
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Damaged gr	ain (not fungus o	contaminated) to b	General De diverted for Poultry/livestock feeding I the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever	
150	in suges	and appearance of mucous	piglets if they are kept in confined system • Deworm with anti helmetic drugs (particularly Tapeworms)
		membrane of the mouth and foot.)	viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine
		Swine Fever	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
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: 16th to 19th 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: 100/2017/Fri

Dated:15th December, 2017



Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Rainfall = 0.0 mm	Mostly sunny with no possibility of rainfall. Daily maximum and
	minimum temperature for the following period is predicted to be 21-
	22°C and 09-10°C respectively. Expected morning and evening
	relative humidity will be 73-78% and 21-31% respectively. Wind
	direction is variable with speed range of 5-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

- Disinfecting the animal/bird sheds with lime powder/bleaching powder/4%NaOH at regular interval is advocated
- Spraying operation should be done only on dry/clear weather
- Go for low cost 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
7:			FIELD CROPS
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.
Maize	Homostin a	Rat	In case of rain delay harvesting
Marze	Harvesting	Kat	 Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
			VEGETABLES
Cabbage/	Maturity	Leaf eating	Light irrigation is essential,
Cauliflower/	iviacarity	caterpillars/	 In present weather conditions severe attack of leaf eating
Knolkhol/		Aphids	caterpillars has been reported. Spray Azadirachtin(0.015%)
Others			@6ml/litre of water when weather is clear.
			 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
		НОРТ	management of potato late blight. ICULTURAL CROPS
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to
		Cold	protect from cold/frost
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	• 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
Kiwi	Tiai vesting		 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
		I	Honey Bees
Honey bees			Box must be covered with straw/dry leaves to provide
			warmth
			Provide sugar syrup
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
	•		General
	_		e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever	
	<i></i>	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)
		Swine rever	viz. Fento Plus @ 1 tablet per 30 kg body weight
			 In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	Provide proper bedding materials especially to new-born and lukewarm food & water
			 Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of
			veterinary department officials,
			 Avoid mixing of infected and healthy animals,
			Keep infected animals separated from the healthy ones,
			<u>, </u>

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	Contact Scientists (ICAR) or State Agril Staff 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: 16th to 19th December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

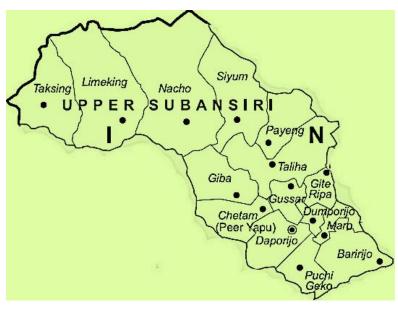


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Upper Subansiri

No: 100/2017/Fri

Dated:15th December, 2017



Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Daporijo: 6.0 mm	Mostly sunny with no possibility of rainfall. Daily maximum and
	minimum temperature for the following period is predicted to be 24-
	25°C and 12-13°C respectively. Expected morning and evening
	relative humidity will be 81-84% and 27-42% 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

- 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 with carbendazim @ 2g/kg seed before sowing Provide irrigation to plants Complete sowing by 1st fortnight of Nov. for better yield
Black Gram & Green Gram	Vegetative		 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Soybean	Harvesting		Immediately harvest soybean & thoroughly dry in sun.
Maize	Harvesting	Rat	 Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
			VEGETABLES
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
Potato	Vegetative	Red Ants/ 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.
		HORT	FICULTURAL CROPS
Large Cardamom	Fruiting	Chirkey Disease	• Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth.
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Collect & dispose rotten fallen fruits/ install fruit-fly traps Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.
Banana	Bunching	Cold	 Breakdown the soil collected around the tree trunk Cover newly emerged bunches with locally available sack to protect from cold/frost
Kiwi	Vegetative		 Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.
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
• Clean drink Pigs	ing water should All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	 Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals,

			 Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scien	ntists (ICAR) or S	U	f or KVK staff for measures against adverse conditions or call 3795-226237/226247

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

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 16th to 19th 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: 100/2017/Fri

Dated:15th December, 2017



Weather summery of the previous week	Weather forecast valid up to 20 th Dec'2017
Rainfall = Bomdila: 0.0; Bhalukpong: 0.0	Mostly sunny with no possibility of rainfall. Daily maximum and
mm	minimum temperature for the following period is predicted to be 18-
	19°C and 09-11°C respectively. Expected morning and evening
	relative humidity will be 74-84% and 16-31% respectively. Wind
	direction variable NNW with speed range of 6-7 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

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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
Dec	Vacatatina		Use locally available traps to control rats menace
Pea	Vegetative		Provide irrigation to plants
			Weeding advocated
Calda a a /	Matauita		VEGETABLES
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		1	@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
		НОРТ	management of potato late blight. CICULTURAL 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
		Gummosis	Dead wood pruning may be done after harvesting of crop
			followed by spraying of fungicide, Carbendazim @ 1gm/lit of
			water.
D	D 1:	C 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
Kiwi	Harvesting		
KIWI	Trai vesting		 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.
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
Apple	Vegetative	Wooly aphids	Swab the stem with mineral oil against wooly aphid.
			Honey Bees
Honey bees			Provide sugar syrup near the box
			Add insulation and ventilation systems
			I WEST OCKS
T: 4 1	- Gt	D:	LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
• Domogod o	main (not frances	ontominated) to L	General
	_		oe diverted for Poultry/livestock feeding I the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever	
-8-	222.840	and appearance	piglets and lukewarm food & water
		of mucous	• Iron injection within 10 days of birth is advised to newly born
		membrane of the	present they are nept in comment system
		mouth and foot.) Swine Fever	De worm with and normetre arags (particularly rupe worms)
		Swille I ever	 viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine
			fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	Provide proper bedding materials especially to new-born and
			lukewarm food & water
			Heavy mortality in cloven footed animals has been reported.
			• Supportive treatment of infected animals under supervision of
			veterinary department officials,

			 Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. 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

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: West Siang

No: 100/2017/Fri

Dated:15th 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 20 th Dec'2017
Basar: Rainfall = 5.8 mm. T. Max: 21.1°C,	Mostly sunny with no possibility of rainfall. Daily maximum and
T. Min: 7.2°C, RH: 53-95%, Wind Speed: 3-	minimum temperature for the following period is predicted to be 26-
5 kmph, Wind Direction: NW	27°C and 13-14°C respectively. Expected morning and evening
	relative humidity will be 75-78% and 19-33% respectively. Wind
	direction is mainly ESE variable with speed range of 5-6 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
			VECE	Use locally available traps to control rats menace TABLES
Potato	Vegetative	Red Ants/	VEGE •	Red Ants: - Drenching with Chlorpyriphos @ 2 ml per
Totato	v egetative	Cutworm		litre of water, Use neem-based insecticides against cut-worm
Cabbage/	Maturity	Leaf eating	•	Light irrigation is essential,
Cauliflower/	Maturity	caterpillars/		In present weather conditions severe attack of leaf eating
Knolkhol/		Aphids		caterpillars has been reported. Spray Azadirachtin(0.015%)
Others		1		@6ml/litre of water when weather is clear.
Ginger/turmeric	Vegetative stage	Rhizome rot	•	Spray with neem based pesticides against aphids Under excessive moisture, there is every possibility of
Singer, turmerre	v egetati ve stage	Tunzome Tot		rhizome rot in ginger and turmeric.
			•	To manage the disease, provide adequate drainage and
				apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake.
			•	Mulching should be done with locally available mulch,
			•	Earthing up of exposed rhizome,
		HORT	ICULT	TURAL CROPS
Peach	Post-harvesting		•	Training & pruning of diseased/criss-cross branches to harvest more solar energy & for proper growth.
Large Cardamom	Fruiting	Chirkey Disease	•	Remove dry/diseased/old tillers & branches & spray 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	•	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
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
Kiwi	Harvesting		•	Should be harvested by snapping their stalks
	6		•	Fruit should be stored boxes containing cushioning materials
D: :				and transported to the market in hard condition.
Pineapple	Sowing		•	Clean the vicinity of plants by weeding and loosen up the soil.
			•	Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos
			•	20EC@ 2ml/lt of water to protect against soil borne disease
				and insect.
Ginger/Turmeric	Vegetative		•	Mulching with locally available materials like dry grass/paddy
6:2: 2 3331616			-	straw recommended
			•	Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
			Hone	ey Bees
Honey bees			11011	Cover the boxes with locally available dry grass or straw to
				provide warmth
				•

Livestock	Stage	Disease	Precautionary Practices to be followed
		1	General
Damaged gra	ain (not fungus o	contaminated) to be	diverted for Poultry/livestock feeding
			ne 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 be 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 lukewarm food & water Heavy mortality in cloven footed animals has been reported Supportive treatment of infected animals under supervision veterinary department officials,
			 Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through S Veterinary Dept.) Provide feed supplements
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold using gunny bags/plastic sheets around the poultryshed durnight, Provide heat by lighting 100W bulb @ 1 bulb per 20 new born chicks.
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia a months of age and repeat after that 6 months interval by s cutaneous route. Pregnant animals above 7 months of pregnancy should avoided.

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