Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

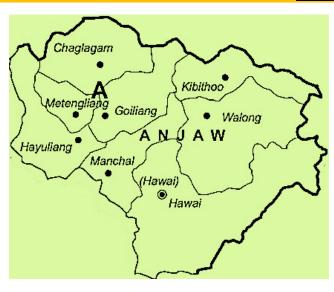


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Anjaw

No: 97/2017/Tue

Dated:5th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
No weather summary available	Mostly sunny to partly cloudy with no possibility of rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 22-24°C and 09-10°C respectively. Expected
	morning and evening relative humidity will be 73-88% and 22-38%
	respectively. Wind direction is mainly SE at a speed range of 4-8
	kmph.
Warning:	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



C		D //D:	
Crop	Stage	Pest/Disease	Precautionary Practices to be followed FIELD CROPS
Pea	Vegetative	Cut-worm	Regular monitoring of crop against attack of cutworm is
		Cut Worm	advised,
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.In case of rain delay harvesting
Black Gram & Green Gram	Vegetative	Powdery mildew	 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Maize	CRI or tasseling	Rat	Maintain adequate moisture level in the field where crop is
	stage/		in CRI stage or in tasseling stage.
	Harvesting		Harvest mature cobs and dry properly before storing. Here the service that the service to
			Use locally available traps to control rats menace. VEGETABLES
Cabbage/	Vegetative	Leaf eating	Light irrigation is essential,
Cauliflower/	, ogetmire	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 and painted
Potato	Vegetative	Red Ants/	bugs in cruciferous crops.Ridge should be properly made,
1 otato	Vegetative	Late blight	 Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of
		S	water,
			 Foliar spray of Dithane <u>M-45@2.5g/litre</u> of water for
		V. O. D.	management of potato late blight.
Danana	Dunching	Cold	Company of the second language of the second
Banana	Bunching	Cold	 Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/	Fruit Drop	Harvest the mature fruit with stalk and store in dry places.
	harvesting	Fruit Fly	 Dead wood pruning may be done after harvesting of crop
		Gummosis	followed by spraying of fungicide, Carbendazim @ 1gm/lit of
			water.
D' 1	TT (* /		Breakdown the soil collected around the tree trunk
Pineapple	Harvesting/ Sowing		Clean the vicinity of plants by weeding and loosen up the soil.After winter harvest, collection/Selection of suckers & slip
			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,
J			 In present weather conditions protect the birds from cold by
			using gunny bags/plastic sheets around the poultryshed during night,
			• Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Fishery			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	 Provide proper bedding materials especially to new-born
		and appearance	piglets and lukewarm food & water
		of mucous membrane of the	• Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system
		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
Cattle	A 11		fever (Vaccines available in State Veterinary Depts),
('attle	All stages	FMD	 Provide proper bedding materials especially to new-born and lukewarm food & water
Cattle			
Cattle			Heavy mortality in cloven footed animals has been reported.
Cattle			 Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of
Caure			
Caure			• Supportive treatment of infected animals under supervision of

		 Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Mithun	FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided from vaccination.
Contact Scientists (I	CAR) or State Agril Staff or K	XVK staff for measures against adverse conditions or call at 03795- 226237/226247

Agro-met Advisory Bulletin

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

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

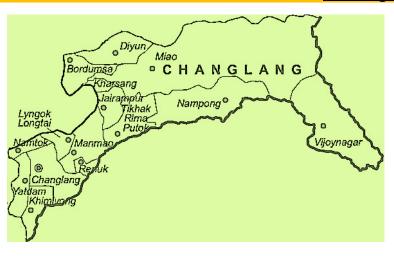


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Changlang

No: 97/2017/Tue

Dated:5th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 6 th Dec'2017
Rainfall = Changlang: 0.0 mm Miao: 0.0	Mostly sunny to partly cloudy with no possibility of rainfall.
mm	Daily maximum and minimum temperature for the following period
	is predicted to be 24-26°C and 12-13°C respectively. Expected
	morning and evening relative humidity will be 79-83% and 22-34%
	respectively. Wind direction is mainly ESE with speed range of 6-7
	kmph.
Warning	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 &	Vegetative	Powdery	Need based foliar spray of Sulfex@2g/lit water to contro
Green Gram	v egettiti ve	mildew	powdery mildew in black/green gram/pea
Maize	CRI or tasseling stage/	Rat	 Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.
	Harvesting		 Harvest mature cobs and dry properly before storing.
			Use locally available traps to control rats menace.
G 11			VEGETABLES
Cabbage/	Vacatatina	Wilting	Light inter-culture operations is advised,
Cauliflower/ Knolkhol/ Others	Vegetative	Cut worm	Due to wet environment there is possibility of attack of Cut worm. Here is a state of the
Others			• If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.
Potato	Vegetative	Red Ants/	Ridge should be properly made,
		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
		HORT	ICULTURAL CROPS
Citrus	Maturity/	Fruit Drop	Harvest the mature fruit with stalk and store in dry places.
	harvesting	Fruit Fly	 Dead wood pruning may be done after harvesting of crop
		Gummosis	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 ground level, scoop the core and pour 2 ml of kerosene in the
			 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	Flowering stage	Chirkey Disease (fungal inection)	 Mulching with locally available materials like dry grass/paddy straw recommended
		& Cl: 1 1	Remove diseased part & keep inflorescence clean.
		Chirke and Foorkey (virus	Uproot & burn virus infected plants
Ginger/Turmeric	Vegetative	infection)	Mulching with locally available materials like dry grass/paddy
Olligei/Turlileric	vegetative		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 grain (not fungus contaminated) to be diverted for Poultry/livestock feeding
- Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,

Goat	All stages		 Deworming for gastrointestinal parasite
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Provide proper bedding materials especially to new-born piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	 Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks. or KVK staff for measures against adverse conditions or call

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

at 03795-226237/226247

Agro-met Advisory Bulletin

(Period: 6th to 8th 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: 97/2017/Tue

Dated:5th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm (Anini)	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 19-21°C and 07-08°C respectively. Expected morning and evening relative humidity will be 85-87% and 22-34% respectively. Wind direction is mainly S with speed range of 6-7
	kmph.
Warning:	 Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Harvesting		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 insects	Provide irrigation to plants
		mseets	Mulching with locally available materials like straw/dray grass to retain soil moisture
			Spray neem-based pesticides against leaf eating insects
Maize	CRI or tasseling stage/	Rat	• <u>Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.</u>
	Harvesting		 Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
			VEGETABLES
Potato	Vegetative	Red Ants/ Cutworm	• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,
			Use neem-based insecticides against cut-worm
Cabbage/	Vegetative	C-1	Provide need-based irrigation
Cauliflower/ Knolkhol/ Others		<u>Cut worm</u>	 Monitor newly transplanted seedlings against attack of Cut worm. Apply fresh and dry saw dust (wood) at the pit of the seedlings to repel cut worm
Rabi vegetables	Sowing/		After sowing the seeds in the nursery, cover it with
radi vegetadies	Transplanting		mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.
			Weeding of the standing crop may be done,
			 Monitoring of standing crops against attack of insect pests and diseases.
Ginger/turmeric	Vegetative stage	Rhizome rot	<u>Under excessive moisture, there is every possibility of</u> rhizome rot in ginger and turmeric.
			To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with
			FYM/ neem cake.Mulching should be done with locally available mulch,
		_	Earthing up of exposed rhizome,
C'.	N		TICULTURAL CROPS
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly	Harvest the mature fruit with stalk and store in dry places. Dead wood proving may be done often hornesting of one.
	nai vesting	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 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
TZ: :	**		wate
Kiwi	Harvesting		 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials
Pineapple	Sowing		 and transported to the market in hard condition. Clean the vicinity of plants by weeding and loosen up the soil.
			Remove sly and use it as a new planting material.
			• Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos
			20EC@ 2ml/lt of water to protect against soil borne disease and insect.
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

		<u> </u>	LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
			General
			e diverted for Poultry/livestock feeding
	All stages		the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the	piglets and lukewarm food & water • Iron injection within 10 days of birth is advised to newly born
		mouth and foot.) Swine Fever	viz. Fento Plus @ 1 tablet per 30 kg body weight
			 In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	 Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scient	ists (ICAR) or Sta	ate Agril Staff or l	KVK staff for measures against adverse conditions or call at 03795- 226237/226247

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

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: East Kameng

No: 97/2017/Tue

Dated:5th December, 2017



Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm (up to 28 th Nov)	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 10-11°C respectively. Expected morning and evening relative humidity will be 72-83% and 35-39%
	respectively. Expected wind direction is mainly SSE with speed range of 5 kmph.
Warning:	 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.
Groundnut	Pegging	Leaf Spot/tikka disease	 On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water Do not disturb the soil structure by spading/hoeing in the field. Hand weeding with care is recommended.
Pulses	Flowering	Blister beetle	 Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
			VEGETABLES
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative Vegetative	Leaf eating caterpillars/ Aphids Red Ants/	 Light irrigation is essential, In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops. Ridge should be properly made,
Totalo	Vegetative	Late blight	 Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight.
Banana	Bunching	Cold	Course poully arranged has a with locally available cook to
Danana	Building	Colu	 Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	 Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
Pineapple	Active vegetative	,	 Mulching with locally available materials like dry grass/paddy straw recommended Remove excess suckers to increase fruit size and improve quality.
Ginger/Turmeric	Seedling		 Mulching with locally available materials like dry grass/paddy straw recommended Proper drainage to be done and avoid water stagnation Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Orchards			 Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
Toko polm	Nurgery		Agroforestry Filling of nursery polybags for raising of takopalm seedlings
Toko palm	Nursery		Timing of nursery porybags for faising of takopanni seedings
			LIVESTOCKS

Livestock	Stage	Disease	Precautionary Practices to be followed
			General
0 0	, ,		e diverted for Poultry/livestock feeding
Clean drink	ing water should		the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weightIn present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Cattle	All stages	FMD	 Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Fishery			 Application of quick lime is highly recommended in order to rectify water pH. Application of fish feed (mustard oil cake) is essential for achieving higher yield
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.

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(Period: 6th to 8th 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: 97/2017/Tue

Dated:5th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall: 0.0 mm; T. Max: 28.0°C; T. Min:	Generally clear/dry weather forecasted. Daily maximum and
16.0°C; RH: 58-77%	minimum temperature for the following period is predicted to be 27-
	28°C and 14-16°C respectively. Expected morning and evening
	relative humidity will be 78-84% and 28-36% respectively.
	Expected wind direction is mainly S with speed range of 4-5 kmph.
Warning:	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	Vacatativa	Loofooting	
Pea	Vegetative	Leaf eating insects	Provide irrigation to plants
		msects	 Mulching with locally available materials like straw/dray grass to retain soil moisture
			 Spray neem-based pesticides against leaf eating insects
Maize	CRI or tasseling stage/	Rat	 Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.
	Harvesting		Harvest mature cobs and dry properly before storing
			Use locally available traps to control rats menace
7	**	7 1 1 /	VEGETABLES
Potato	Vegetative	Red Ants/ Cutworm	• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,
C 11 /	X7		Use neem-based insecticides against cut-worm
Cabbage/ Cauliflower/	Vegetative	Cut worm	Provide need-based irrigationMonitor newly transplanted seedlings against attack of Cut
Knolkhol/		<u>Cut worm</u>	worm. Apply fresh and dry saw dust (wood) at the pit of the
Others			seedlings to repel cut worm
Rabi vegetables	Sowing/ Transplanting		• After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1)
	Transplanting		and mulch with paddy straw / dried leaves.
			Weeding of the standing crop may be done,
			 Monitoring of standing crops against attack of insect pests and
G: /:	**	D1 :	diseases.
Ginger/turmeric	Vegetative stage	Rhizome rot	• <u>Under excessive moisture, there is every possibility of</u> <u>rhizome rot in ginger and turmeric.</u>
			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,
		порт	Earthing up of exposed rhizome, CICULTURAL CROPS
Citrus	Maturity/	Fruit Drop	Harvest the mature fruit with stalk and store in dry places.
Citius	harvesting	Fruit Fly	 Dead wood pruning may be done after harvesting of crop
		Gummosis	followed by spraying of fungicide, Carbendazim @ 1gm/lit of
			water.
Danana	A 11 ot a con	Cinatalya I aaf	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
		spot	ground level, scoop the core and pour 2 ml of kerosene in the
			core,
			• Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of
Kiwi	Harvesting		wateShould be harvested by snapping their stalks
111111	Trai vosting		 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	
			General	
• Damaged gr	rain (not fungus c	ontaminated) to b	e diverted for Poultry/livestock feeding	
			the clock and water troughs/feeders should be regularly cleaned,	
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) 	
		Swille Fever	 viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), 	
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			

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

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Kurung Kumey

No: 97/2017/Tue

Dated:5th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Past weather summary not available	Mostly sunny to partly cloudy with no possibility of rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 19-21°C and 07-08°C respectively. Expected
	morning and evening relative humidity will be 85-87% and 22-34%
	respectively. Wind direction is mainly S with wind speed range of 6-
	7 kmph.
Warning	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

Black Gram & Green Gram Maize C Jhum rice Cabbage/ Cauliflower/ Knolkhol/ Others Potato	Harvesting Vegetative CRI or tasseling stage/ Harvesting Wegetative Vegetative Vegetative Vegetative Maturity/ harvesting	Leaf eating caterpillars/Aphids Red Ants/Late blight HORT Cold Fruit Drop	 Sun-dry & properly winnow the grains for safe storage. Need based foliar spray of Sulfex@2g/lit water to corpowdery mildew in black/green gram/pea Maintain adequate moisture level in the field where croin CRI stage or in tasseling stage. Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace Immediate harvesting of left-over rice advocated Proper sun drying before storage. VEGETABLES Light irrigation is essential, In present weather conditions severe attack of leaf eacaterpillars has been reported. Spray Azadirachtin(0.01:@6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops. Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS Cover newly emerged bunches with locally available sack to protect from cold/frost Harvest the mature fruit with stalk and store in dry places.
Black Gram & Green Gram Maize C Jhum rice Cabbage/ Cauliflower/ Knolkhol/ Others Potato Banana Bu Citrus	Vegetative CRI or tasseling stage/ Harvesting Harvesting Vegetative Vegetative unching Maturity/	Leaf eating caterpillars/ Aphids Red Ants/ Late blight HORT Cold Fruit Drop	 Need based foliar spray of Sulfex@2g/lit water to corpowdery mildew in black/green gram/pea Maintain adequate moisture level in the field where croin CRI stage or in tasseling stage. Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace Immediate harvesting of left-over rice advocated Proper sun drying before storage. VEGETABLES Light irrigation is essential, In present weather conditions severe attack of leaf eacaterpillars has been reported. Spray Azadirachtin(0.01) @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops. Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS Cover newly emerged bunches with locally available sack to protect from cold/frost
Green Gram Maize C Jhum rice Cabbage/ Cauliflower/ Knolkhol/ Others Potato Banana Bu Citrus	CRI or tasseling stage/ Harvesting Harvesting Vegetative Vegetative unching Maturity/	Leaf eating caterpillars/ Aphids Red Ants/ Late blight HORT Cold Fruit Drop	 Maintain adequate moisture level in the field where croin CRI stage or in tasseling stage. Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace Immediate harvesting of left-over rice advocated Proper sun drying before storage. VEGETABLES Light irrigation is essential, In present weather conditions severe attack of leaf ea caterpillars has been reported. Spray Azadirachtin(0.01: @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops. Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS Cover newly emerged bunches with locally available sack to protect from cold/frost
Jhum rice Cabbage/ Cauliflower/ Knolkhol/ Others Potato Banana Bu Citrus	stage/ Harvesting Harvesting Vegetative Vegetative unching Maturity/	Leaf eating caterpillars/ Aphids Red Ants/ Late blight HORT Cold Fruit Drop	 in CRI stage or in tasseling stage. Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace Immediate harvesting of left-over rice advocated Proper sun drying before storage. VEGETABLES Light irrigation is essential, In present weather conditions severe attack of leaf ear caterpillars has been reported. Spray Azadirachtin(0.01: @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops. Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litred water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS Cover newly emerged bunches with locally available sack to protect from cold/frost
Cabbage/ Cauliflower/ Knolkhol/ Others Potato Banana Bu Citrus	Harvesting Vegetative Vegetative unching Maturity/	Leaf eating caterpillars/ Aphids Red Ants/ Late blight HORT Cold Fruit Drop	 Use locally available traps to control rats menace Immediate harvesting of left-over rice advocated Proper sun drying before storage. VEGETABLES Light irrigation is essential, In present weather conditions severe attack of leaf ea caterpillars has been reported. Spray Azadirachtin(0.01: @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops. Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litred water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS Cover newly emerged bunches with locally available sack to protect from cold/frost
Cabbage/ Cauliflower/ Knolkhol/ Others Potato Banana Bu Citrus	Vegetative Vegetative unching Maturity/	Leaf eating caterpillars/ Aphids Red Ants/ Late blight HORT Cold Fruit Drop	 Proper sun drying before storage. VEGETABLES Light irrigation is essential, In present weather conditions severe attack of leaf ear caterpillars has been reported. Spray Azadirachtin(0.01: @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops. Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS Cover newly emerged bunches with locally available sack to protect from cold/frost
Cauliflower/ Knolkhol/ Others Potato Banana Bu Citrus	Vegetative unching Maturity/	Leaf eating caterpillars/ Aphids Red Ants/ Late blight HORT Cold Fruit Drop	 Light irrigation is essential, In present weather conditions severe attack of leaf ear caterpillars has been reported. Spray Azadirachtin(0.01: @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops. Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS Cover newly emerged bunches with locally available sack to protect from cold/frost
Cauliflower/ Knolkhol/ Others Potato Banana Bu Citrus	Vegetative unching Maturity/	caterpillars/ Aphids Red Ants/ Late blight HORT Cold Fruit Drop	 In present weather conditions severe attack of leaf ear caterpillars has been reported. Spray Azadirachtin(0.01: @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops. Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litred water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS Cover newly emerged bunches with locally available sack to protect from cold/frost
Rnolkhol/Others Potato Banana Bu Citrus	unching Maturity/	Red Ants/ Late blight HORT Cold Fruit Drop	 caterpillars has been reported. Spray Azadirachtin(0.01: @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops. Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS Cover newly emerged bunches with locally available sack to protect from cold/frost
Banana Bu Citrus	unching Maturity/	HORT Cold Fruit Drop	 bugs in cruciferous crops. Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS Cover newly emerged bunches with locally available sack to protect from cold/frost
Banana Bu Citrus	unching Maturity/	HORT Cold Fruit Drop	 Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/	HORT Cold Fruit Drop	water, • Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight. ICULTURAL CROPS • Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/	Cold Fruit Drop	 Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/	Cold Fruit Drop	 Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/	Fruit Drop	protect from cold/frost
	•	•	 Harvest the mature fruit with stalk and store in dry places.
Kiwi	narvesting		
Kiwi		Fruit Fly Gummosis	 Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit
K1W1			water.Breakdown the soil collected around the tree trunk
	Harvesting		 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning mater and transported to the market in hard condition.
Pineapple Sc	owing		 Clean the vicinity of plants by weeding and loosen up the s Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyrip 20EC@ 2ml/lt of water to protect against soil borne disc and insect.
Large Cardamom Fl	Flowering stage	Chirkey Disease (fungal inection) &	 Mulching with locally available materials like dry grass/pa straw recommended
		Chirke and Foorkey (virus infection)	 Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
Ginger/Turmeric	Vegetative		 Proper drainage to be done and avoid water stagnation Earthing up of ginger/turmeric along with basal application required fertilizer should be done
			Honey Bees
			 Box must be covered with straw/dry leaves to provide warmth
			LIVESTOCKS
			General
	_		e diverted for Poultry/livestock feeding
			the clock and water troughs/feeders should be regularly cleaned
Livestock	Stage	Disease EMD (high favor	Precautionary Practices to be followed
Pigs	All stages	FMD (high fever and appearance of mucous	 Provide proper bedding materials especially to new-bor piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly be
		membrane of the mouth and foot.) Swine Fever	 piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms viz. Fento Plus @ 1 tablet per 30 kg body weight

			• In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	 Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.

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

at 03795-226237/226247

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

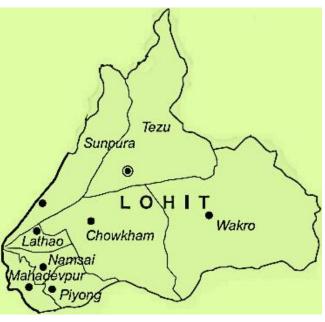


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Lohit

No: 97/2017/Tue

Dated:5th December, 2017



Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm	Mostly sunny to partly cloudy with no possibility of rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 27-28°C and 14-16°C respectively. Expected morning
	and evening relative humidity will be 78-84% and 28-36%
	respectively. Wind direction is mainly S with speed range of 4-5
	kmph.
Warning:	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
Стор	Diage	1 Cou Discase	FIELD CROPS
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.
			In case of rain delay harvesting
Black Gram &	Vegetative		Need based foliar spray of Sulfex@2g/lit water to control
Green Gram			powdery mildew in black/green gram/pea
Pea	Vegetative	Leaf eating	Provide irrigation to plants
		insects	Mulching with locally available materials like straw/dray grass
			to retain soil moisture
			Spray neem-based pesticides against leaf eating insects
Maize	CRI or tasseling	Rat	Maintain adequate moisture level in the field where crop is
	stage/		in CRI stage or in tasseling stage.
	Harvesting		Harvest mature cobs and dry properly before storing
			Use locally available traps to control rats menace
Datata	Vacatatina	Red Ants/	VEGETABLES
Potato	Vegetative	Cutworm	• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,
		Cutworm	 Use neem-based insecticides against cut-worm
Cabbage/	Vegetative		Provide need-based irrigation
Cauliflower/	8	Cut worm	Monitor newly transplanted seedlings against attack of Cut
Knolkhol/			worm. Apply fresh and dry saw dust (wood) at the pit of the
Others	~		seedlings to repel cut worm
Rabi vegetables	Sowing/		• After sowing the seeds in the nursery, cover it with
	Transplanting		mixture of well rotten compost + friable soil + sand $(2:1:1)$ and mulch with paddy straw / dried leaves.
			 Weeding of the standing crop may be done,
			 Monitoring of standing crops against attack of insect pests and
			diseases.
Ginger/turmeric	Vegetative stage	Rhizome rot	<u>Under excessive moisture, there is every possibility of</u>
			rhizome rot in ginger and turmeric.
			• To manage the disease, provide adequate drainage and
			apply <i>Trichoderma harzianum</i> @ 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	 Dead wood pruning may be done after harvesting of crop
		Gummosis	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
***			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.
Тисарыс	Bowing		 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
YY 1			Honey Bees
Honey bees			Cover the boxes with locally available dry grass or straw to provide wormth
	i l		provide warmth

	T =	T = .	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 and appearance	 Provide proper bedding materials especially to new-born piglets and lukewarm food & water 		
		of mucous	 Iron injection within 10 days of birth is advised to newly born 		
		membrane of the			
		mouth and foot.)			
		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. Supporting the standard of infants and animals are former for the standard of the standard o		
			• 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 Scion	avoided. Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call				
Contact Scien	at 03795-226237/226247				
at 03173-120231/220241					

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Lower Dibang Valley

No: 97/2017/Tue

Dated:5th December, 2017



Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm (Roing)	Mostly sunny to partly cloudy with no possibility of rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 25-26°C and 11-12°C respectively. Expected
	morning and evening relative humidity will be 84-85% and 34-40%
	respectively. Wind direction is mainly S with speed range of 4-6
	kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.
Black Gram & Green Gram	Vegetative		 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Pea	Vegetative	Leaf-eating	Provide irrigation to plants
		insects	 Spray neem-based insecticides against leaf eating insects
Soybean	Harvesting		Harvest soybean & thoroughly dry in sun.
Maize	CRI or tasseling	Rat	Maintain adequate moisture level in the field where crop is
	stage/ Harvesting		 in CRI stage or in tasseling stage. Harvest mature cobs and dry properly before storing
			Use locally available traps to control rats menace VEGETABLES
Potato	Vegetative	Red Ants/ Cutworm	• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,
<u> </u>	T 1 /	******	Spray neem-based insecticides against cut-worm
Cabbage/ Cauliflower/ Knolkhol/ Others	Transplanting/ Vegetative	Wilting <u>Cut worm</u>	 Light inter-culture operations is advised, Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.
Cucurbits (Bottle	Harvesting	Aphid/ Red pumpkin	 On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids,
gourd,Ridge gourd,		beetle/ Cutworm	On clear/dry weather, Spraying of Deltamethrin 4ml/10
Pumpkin,		Cutworm	litre of water is advised for management of Red pumpkin beetle grass,
Bitter gourd,			 Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per
Cucumber, etc.)			plant.
Citana	Motorritor/		TICULTURAL CROPS
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.
Banana	Multiple stages	Sigatoka Leaf spot	 Breakdown the soil collected around the tree trunk One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of wate
Pineapple	Sowing		 Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material.
			 Kemove siy 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

• Clean drink	Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,				
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weightIn present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), 		
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultry shed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks. 		
Cattle	All stages	FMD	 Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements 		
Goat	All stages		Deworming for gastrointestinal parasite		

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

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

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Lower Subansiri

No: 97/2017/Tue

Dated:5th December, 2017



Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = NA	Mostly sunny to partly cloudy with no possibility of rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 25-26°C and 11-12°C respectively. Expected
	morning and evening relative humidity will be 84-85% and 34-40%
	respectively. Wind direction is mainly S with speed range of 4-6
	kmph.
Warning:	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
P	~~~~		FIELD CROPS
Black Gram &	Vegetative		Need based foliar spray of Sulfex@2g/lit water to control
Green Gram			powdery mildew in black/green gram/pea
Pea	Sowing		 Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing Provide irrigation to plants
Soybean	Harvesting		 Complete sowing by 1st fortnight of Nov. for better yield Immediately harvest soybean & thoroughly dry in sun.
Rice Groundnut Maize Pulses	Milking/seed formation Pegging CRI or tasseling stage/ Harvesting Flowering	Gundhi bug/ leaf folder/ rice skipper Leaf Spot/tikka disease Rat Blister beetle	 Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. Alternate drying and wetting of field is highly desirable in WRC field Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit. Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper & leaf folder using sticker On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water Do not disturb the soil structure by spading/hoeing in the field. Hand weeding with care is recommended. Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage. Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace Application of fertilizers and spray operations to be delayed (available)
			 delayed/avoided Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest VEGETABLES
Cabbage/	Vegetative	Leaf eating	
Cabbage/ Cauliflower/ Knolkhol/ Others	vegetative	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 and painted bugs in cruciferous crops.
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
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Kiwi Pineapple	Harvesting Sowing		 Should be harvested by snapping their stalks Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition. Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.

Γ	T	T	
Guava	Fruit	Fruit fly	Basin cleaning and manuring
	Development		 Install fruit fly pheromone traps for collection and destruction of the adult insects
Ginger/Turmeric	Seedling		 Mulching with locally available materials like dry grass/paddy straw recommended
			 Proper drainage to be done and avoid water stagnation
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection)	Mulching with locally available materials like dry grass/paddy straw recommended
		&	Remove diseased part & keep inflorescence clean
		Chirke and	 Uproot & burn virus infected plants
		Foorkey (virus infection)	- F
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
m 1			Agroforestry
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
			Honey Bees
Honey bees			 Box must be covered with straw/dry leaves to provide warmth
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
	_		 piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms)
		Swine i ever	 viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine
Cattle	All stages	FMD	 fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and
			lukewarm food & water
			Heavy mortality in cloven footed animals has been reported.Supportive treatment of infected animals under supervision of
			veterinary department officials,
			Avoid mixing of infected and healthy animals,
			Keep infected animals separated from the healthy ones, Vascingto the healthy originals against EMD (Through State)
			 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
Mithun		FMD	born chicks.Polyvalent FMD vaccine with serotype O, A and Asia at 6 months
1/11UIUII			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	_	For KVK staff for measures against adverse conditions or call
		at 0.	3795-226237/226247

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

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Papum Pare

No: 97/2017/Tue

Dated:5th December, 2017



Weather summery of the previous week	Weather forecast valid up to 6 th Dec'2017
Rainfall: 0.0 mm; T. Max: 29.0°C; T. Min: 13.0°C; RH: 62-78%	Mostly sunny to partly cloudy with no possibility of rainfall. Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 12-13°C respectively. Expected morning and evening relative humidity will be 74-75% and 37-41% respectively. Expected wind direction mainly WNW & WSW with speed range of 4-5 kmph.
Warning:	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	FIEL D	Precautionary Practices to be followed CROPS
Rice	Harvesting		•	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 insects
Soybean	Harvesting		•	Immediately harvest soybean & thoroughly dry in sun.
Maize	CRI or tasseling	Rat	•	Maintain adequate moisture level in the field where crop is
	stage/			in CRI stage or in tasseling stage.
	Harvesting		•	Harvest mature cobs and dry properly before storing
			VECE	Use locally available traps to control rats menace FABLES
Potato	Vegetative	Red Ants/	VEGE.	Red Ants: - Drenching with Chlorpyriphos @ 2 ml per
Totato	Vegetative	Cutworm		litre of water,
			•	Spray neem-based insecticides against cut-worm
Cabbage/	Transplanting/	Wilting	•	Light inter-culture operations is advised,
Cauliflower/ Knolkhol/	Vegetative	Cut worm	•	Due to wet environment there is possibility of attack of Cut
Others		<u>Cut worm</u>		worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.
Cucurbits	Harvesting	Aphid/	•	On clear/dry weather, Spraying of Dimethoate 30 EC @
(Bottle		Red pumpkin		3ml/litre of water is advised against aphids,
gourd,Ridge		beetle/	•	On clear/dry weather, Spraying of Deltamethrin 4ml/10
gourd, Pumpkin,		Cutworm		litre of water is advised for management of Red pumpkin beetle grass,
Bitter gourd,			•	Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per
Cucumber,				plant.
etc.)		ПОРТ		CURAL CROPS
Citrus	Maturity/	Fruit Drop	•	Harvest the mature fruit with stalk and store in dry places.
Citius	harvesting	Fruit Fly	•	Dead wood pruning may be done after harvesting of crop
		Gummosis		followed by spraying of fungicide, Carbendazim @ 1gm/lit of
				water.
Banana	Multiple stages	Sigatoka Leaf	•	Breakdown the soil collected around the tree trunk One sword sucker may be allowed after shooting (Flowering),
Bununu	Wattiple stages	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
0.1.1				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			Hone	Poy must be severed with strony/dry leaves to mayide
Troney bees			•	Box must be covered with straw/dry leaves to provide warmth
				TT CALLELLE
			LIVES	STOCKS
Livestock	Stage	Disease		Precautionary Practices to be followed
• Domesad =	roin (not furances	intominated) to L		neral
	_			ed for Poultry/livestock feeding ck and water troughs/feeders should be regularly cleaned,
Goat	All stages	or chibarea round	•	Deworming for gastrointestinal parasite
Pigs	All stages	FMD (high fever	r •	Iron injection within 10 days of birth is advised to newly born
<u> </u>			1	,

		and appearance		piglets if they are kept in confined system
		of mucous	•	Deworm with anti helmetic drugs (particularly Tapeworms)
		membrane of the		viz. Fento Plus @ 1 tablet per 30 kg body weight In present
		mouth and foot.)		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
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: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Tawang

No: 97/2017/Tue

Dated:5th December, 2017



Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm	Partly cloudy with no possibility of rainfall. Daily maximum and
	minimum temperature for the following period is predicted to be 11-
	12°C and 04-05°C respectively. Expected morning and evening
	relative humidity will be 81-82% and 10-37% respectively. Wind
	direction is mainly W with probable speed range of 4-7 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
Rice	Horvesting		FIELD CROPS
	Harvesting		Sun-dry & properly winnow the grains for safe storage.
Maize	CRI or tasseling stage/	Rat	• Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage.
	Harvesting		 Harvest mature cobs and dry properly before storing
			Use locally available traps to control rats menace
	_		VEGETABLES
Potato	Vegetative	Red Ants	• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water,
Cabbage/	Vegetative	Leaf eating	Light irrigation is essential,
Cauliflower/		caterpillars/	• In present weather conditions severe attack of leaf eating
Knolkhol/		Aphids	caterpillars has been reported. Spray Azadirachtin(0.015%)
Others			@6ml/litre of water when weather is clear.
			 Spray with neem based pesticides against aphids and painted bugs in cruciferous crops.
		HORT	ICULTURAL CROPS
Banana	Multiple stages	Sigatoka Leaf	Cover the mature bunches with gunny bags to protect
		spot	from cold and frost.
			 One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the
			• 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
Apple	Post-harvesting		 and transported to the market in hard condition. Pruning of dead and diseased branches advocated
Прріс	1 ost narvesting		Apply Bordeaux paste after pruning
Orchards			• Prepare half moon terraces in fruit crops
			(orange/banana/apple/peach) grown in steep slopes to prevent
			nutrient loss during heavy downpour.
			 Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
			Honey Bees
Honey bees			Provide sugar syrup near the box
			 Cover the boxes with locally available dry grass to provide
			warmth.
Livestock	C4a aa	Disease	LIVESTOCKS Precautionary Practices to be followed
Livestock	Stage	Disease	
1			
Damaged g		ontaminated) to b	General e diverted for Poultry/livestock feeding
0 0	rain (not fungus co	be ensured round	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
0 0	grain (not fungus co	be ensured round FMD (high fever	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, • Provide proper bedding materials especially to new-born
• Clean drinl	rain (not fungus co	be ensured round FMD (high fever and appearance	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, • Provide proper bedding materials especially to new-born piglets and lukewarm food & water
• Clean drinl	rain (not fungus co	be ensured round FMD (high fever	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, • Provide proper bedding materials especially to new-born piglets and lukewarm food & water • Close all the ventilation in the house and cover with locally
• Clean drinl	rain (not fungus co	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, • Provide proper bedding materials especially to new-born piglets and lukewarm food & water
• Clean drinl	rain (not fungus co	FMD (high fever and appearance of mucous membrane of the	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, • Provide proper bedding materials especially to new-born piglets and lukewarm food & water • Close all the ventilation in the house and cover with locally available dry straw/grass • Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system
• Clean drinl	rain (not fungus co	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, • Provide proper bedding materials especially to new-born piglets and lukewarm food & water • Close all the ventilation in the house and cover with locally available dry straw/grass • Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system • Deworm with anti helmetic drugs (particularly Tapeworms)
• Clean drinl	rain (not fungus co	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, • Provide proper bedding materials especially to new-born piglets and lukewarm food & water • Close all the ventilation in the house and cover with locally available dry straw/grass • Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system • Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight
• Clean drinl	rain (not fungus co	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, • Provide proper bedding materials especially to new-born piglets and lukewarm food & water • Close all the ventilation in the house and cover with locally available dry straw/grass • Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system • Deworm with anti helmetic drugs (particularly Tapeworms)
• Clean drinl	rain (not fungus co	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, • Provide proper bedding materials especially to new-born piglets and lukewarm food & water • Close all the ventilation in the house and cover with locally available dry straw/grass • Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system • Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight • In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), • Provide proper bedding materials especially to new-born and
• Clean drinl Pigs	grain (not fungus co king water should l All stages	be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Provide proper bedding materials especially to new-born piglets and lukewarm food & water Close all the ventilation in the house and cover with locally available dry straw/grass Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and lukewarm food & water
• Clean drinl Pigs	grain (not fungus co king water should l All stages	be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Provide proper bedding materials especially to new-born piglets and lukewarm food & water Close all the ventilation in the house and cover with locally available dry straw/grass Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported.
• Clean drinl Pigs	grain (not fungus co king water should l All stages	be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Provide proper bedding materials especially to new-born piglets and lukewarm food & water Close all the ventilation in the house and cover with locally available dry straw/grass Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of
• Clean drinl Pigs	grain (not fungus co king water should l All stages	be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Provide proper bedding materials especially to new-born piglets and lukewarm food & water Close all the ventilation in the house and cover with locally available dry straw/grass Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported.
• Clean drinl Pigs	grain (not fungus co king water should l All stages	be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Provide proper bedding materials especially to new-born piglets and lukewarm food & water Close all the ventilation in the house and cover with locally available dry straw/grass Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones,
• Clean drinl Pigs	grain (not fungus co king water should l All stages	be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Provide proper bedding materials especially to new-born piglets and lukewarm food & water Close all the ventilation in the house and cover with locally available dry straw/grass Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of 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
• Clean drinl Pigs	grain (not fungus co king water should l All stages	be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Provide proper bedding materials especially to new-born piglets and lukewarm food & water Close all the ventilation in the house and cover with locally available dry straw/grass Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of 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.)
• Clean drinl Pigs Cattle	All stages All stages	be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Provide proper bedding materials especially to new-born piglets and lukewarm food & water Close all the ventilation in the house and cover with locally available dry straw/grass Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of 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
• Clean drinl Pigs	grain (not fungus co king water should l All stages	be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Provide proper bedding materials especially to new-born piglets and lukewarm food & water Close all the ventilation in the house and cover with locally available dry straw/grass Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of 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.)

	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: 6th to 8th December, 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Tirap

No: 97/2017/Tue

Dated:5th December, 2017



Weather summery of the previous week	Weather forecast valid up to 6 th Dec'2017
Rainfall = 0.0 mm	Mostly sunny to partly cloudy with no possibility of rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 24-26°C and 12-13°C respectively. Expected
	morning and evening relative humidity will be 79-83% and 22-38%
	respectively. Wind direction is mainly variable with speed range of
	4-8 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.In case of rain delay harvesting
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	CRI or tasseling stage/ Harvesting	Rat	 Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage. Harvest mature cobs and dry properly before storing. Use locally available traps to control rats menace.
		,	VEGETABLES
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	Wilting <u>Cut worm</u>	 Light inter-culture operations is advised, Due to wet environment there is possibility of attack of Cut worm. If infestation is very high, to protect the seedlings apply Carbaryl (Sevin) 5% as bait @ 10 kg per acre.
Potato	Vegetative	Red Ants/ Cutworm	 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	ICULTURAL CROPS
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Banana	All stages	Sigatoka Leaf spot	 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	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
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
Livestock	Stage	Disease	Precautionary Practices to be followed
			General e diverted for Poultry/livestock feeding

Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Cattle	All stages	FMD	 Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements
Contact Scien	ntists (ICAR) or	State Agril Staff o	or KVK staff for measures against adverse conditions or call

at 03795-226237/226247

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Upper Siang

No: 97/2017/Tue

Dated:5th December, 2017



Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = 0.0 mm	Mostly sunny to partly cloudy with no possibility of rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 22-24°C and 09-10°C respectively. Expected
	morning and evening relative humidity will be 73-88% and 22-35%
	respectively. Wind direction is variable with speed range of 4-8
	kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
Rice	Hamicating		FIELD CROPS
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.In case of rain delay harvesting
Maize	CRI or tasseling	Rat	Maintain adequate moisture level in the field where crop is
	stage/		in CRI stage or in tasseling stage.
	Harvesting		Harvest mature cobs and dry properly before storingUse locally available traps to control rats menace
Groundnut	Pegging	Leaf	On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of
	1 6888	Spot/tikka	water
		disease	• Do not disturb the soil structure by spading/hoeing in the field.
			 Hand weeding with care is recommended.
			VEGETABLES
Cabbage/	Vegetative	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.
Others			 Spray with neem based pesticides against aphids and painted
			bugs in cruciferous crops.
Potato	Vegetative	Red Ants/	Ridge should be properly made,
		Late blight	• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of
			water, Folior energy of Dithono M. 45@2.50/litro of vyctor for
			 Foliar spray of Dithane <u>M-45@2.5g/litre</u> of water for management of potato late blight.
		HORT	ICULTURAL CROPS
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to
G:	3.5	T 1. D	protect from cold/frost
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly	 Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop
	nai vesting	Gummosis	 Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of
			water.
			 Breakdown the soil collected around the tree trunk
Kiwi	Harvesting		Should be harvested by snapping their stalks
			• Fruit should be stored boxes containing cushioning materials and transported to the market in hard condition.
Pineapple	Sowing		Clean the vicinity of plants by weeding and loosen up the soil.
FF	238		 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 and fortilizer should be done
			required fertilizer should be done 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
• Clean drink Pigs	All stages	be ensured round FMD (high fever	 the clock and water troughs/feeders should be regularly cleaned, Provide proper bedding materials especially to new-born
- 180	in suges	and appearance	piglets and lukewarm food & water
		of mucous	• Iron injection within 10 days of birth is advised to newly born
		membrane of the	piglets if they are kept in confined system
		mouth and foot.)	Deworm with anti helmetic drugs (particularly Tapeworms)
		NUMB HAVAR	
		Swine Fever	viz. Fento Plus @ 1 tablet per 30 kg body weight
		Swine Fever	 In present weather conditions vaccinate against swine
Cattle	All stages	FMD	

			 Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)
			Provide feed supplements
Fishery			Application of quick lime is highly recommended in order to rectify water pH.
			• Application of fish feed (mustard oil cake) is essential for achieving higher yield
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	itists (ICAR) or	State Agril Staf	f or KVK staff for measures against adverse conditions or call

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

at 03795-226237/226247

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

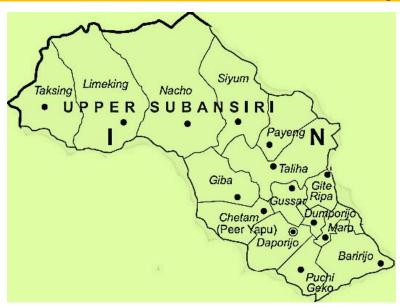


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Upper Subansiri

No: 97/2017/Tue

Dated:5th December, 2017



Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Daporijo: 0.0 mm	Mostly sunny to partly cloudy with no possibility of rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 26-27°C and 11-12°C respectively. Expected
	morning and evening relative humidity will be 78-81% and 32-38%
	respectively. Expected wind direction variable with speed range of
	3-7 kmph.
Warning	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Harvesting		 Sun-dry & properly winnow the grains for safe storage.
Pea	Sowing		Treat pea with rhizobium@2gm/kg seed before sowing or treat with carbendazim @ 2g/kg seed before sowing
			Provide irrigation to plants
71 1 7 0			Complete sowing by 1 st fortnight of Nov. for better yield
Black Gram & Green Gram	Vegetative		 Need based foliar spray of Sulfex@2g/lit water to control powdery mildew in black/green gram/pea
Soybean	Harvesting		 Immediately harvest soybean & thoroughly dry in sun.
Maize	CRI or tasseling stage/ Harvesting	Rat	 Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage. Harvest mature cobs and dry properly before storing
	Tim vosting		 Use locally available traps to control rats menace
			VEGETABLES
Cabbage/	Vegetative	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 and painted
			bugs in cruciferous crops.
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
Banana	Bunching	Cold	 Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water.
Kiwi	Vegetative		 Breakdown the soil collected around the tree trunk Manuring with well decomposed FYM@15kg/plant followed
Oughanda			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
YY 1			Honey Bees
Honey bees			Provide sugar syrup near the box Add insulation and ventilation systems.
			Add insulation and ventilation systems LIVESTOCKS
T		D:	
Livestock	Stage	Disease	Precautionary Practices to be followed
• Domesad =	rain (not furaus so	ntominated) to L	General a diverted for Poultry/livesteek feeding
	_		e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever	
<i>5</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 mouth and foot.)	piglets if they are kept in confined system
		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 & waterHeavy mortality in cloven footed animals has been reported.
			 Supportive treatment of infected animals under supervision of

			 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			

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

at 03795-226237/226247

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: West Kameng

No: 97/2017/Tue

Dated:5th December, 2017



Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Rainfall = Bomdila: 0.0; Bhalukpong: 0.0	Mostly sunny to partly cloudy with no possibility of rainfall.
mm	Daily maximum and minimum temperature for the following period
	is predicted to be 19-21°C and 07-08°C respectively. Expected
	morning and evening relative humidity will be 85-87% and 22-34%
	respectively. Wind direction is mainly S with speed range of 6-7
	kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
-			FIELD CROPS
Rice	Harvesting		Sun-dry & properly winnow the grains for safe storage.In case of rain delay harvesting
Maize	CRI or tasseling stage/ Harvesting	Rat	 Maintain adequate moisture level in the field where crop is in CRI stage or in tasseling stage. Harvest mature cobs and dry properly before storing Use locally available traps to control rats menace
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.
Groundnut	Pegging	Leaf Spot/tikka disease	 On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water Do not disturb the soil structure by spading/hoeing in the field. Hand weeding with care is recommended.
			VEGETABLES
Cabbage/ Cauliflower/ Knolkhol/ Others	Vegetative	Leaf eating caterpillars/ Aphids	 Light irrigation is essential, In present weather conditions severe attack of leaf eating caterpillars has been reported. Spray Azadirachtin(0.015%) @6ml/litre of water when weather is clear. Spray with neem based pesticides against aphids and painted bugs in cruciferous crops.
Potato	Vegetative	Red Ants/ Late blight	 Ridge should be properly made, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Foliar spray of Dithane M-45@2.5g/litre of water for management of potato late blight.
		HORT	TICULTURAL CROPS
Banana	Bunching	Cold	Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Maturity/ harvesting	Fruit Drop Fruit Fly Gummosis	 Harvest the mature fruit with stalk and store in dry places. Dead wood pruning may be done after harvesting of crop followed by spraying of fungicide, Carbendazim @ 1gm/lit of water. Breakdown the soil collected around the tree trunk
Kiwi	Harvesting		 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 boxAdd insulation and ventilation systems
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed

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

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Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

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



ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

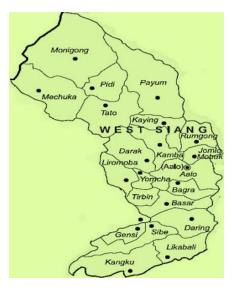


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: West Siang

No: 97/2017/Tue

Dated:5th December, 2017



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

Weather summery of the previous week	Weather forecast valid up to 10 th Dec'2017
Basar: Rainfall = 0.0 mm. T. Max: 22.3°C,	Mostly sunny to partly cloudy with no possibility of rainfall.
T. Min: 7.2°C, RH: 50-97%, Wind Speed: 3-	Daily maximum and minimum temperature for the following period
6 kmph, Wind Direction: NW & SW	is predicted to be 24-26°C and 12-13°C respectively. Expected
	morning and evening relative humidity will be 79-83% and 24-36%
	respectively. Wind direction is mainly ESE with speed range of 4-5
	kmph.
Warning:	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 &	Vegetative		 Need based foliar spray of Sulfex@2g/lit water to control
Green Gram			powdery mildew in black/green gram/pea
Pea	Vegetative	Leaf eating	Provide irrigation to plants
100	, egetati ve	insects	 Mulching with locally available materials like straw/dray grass
			to retain soil moisture
			Spray neem-based pesticides against leaf eating insects
Maize	CRI or tasseling	Rat	• Maintain adequate moisture level in the field where crop is
	stage/		in CRI stage or in tasseling stage.
	Harvesting		Harvest mature cobs and dry properly before storing
			Use locally available traps to control rats menace
_	I		VEGETABLES
Potato	Vegetative	Red Ants/	• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per
		Cutworm	litre of water,
			Use neem-based insecticides against cut-worm
Cabbage/	Vegetative	a	Provide need-based irrigation
Cauliflower/		<u>Cut worm</u>	Monitor newly transplanted seedlings against attack of Cut
Knolkhol/ Others			worm. Apply fresh and dry saw dust (wood) at the pit of the
	C /		seedlings to repel cut worm
Rabi vegetables	Sowing/		• After sowing the seeds in the nursery, cover it with
	Transplanting		mixture of well rotten compost + friable soil + sand (2:1:1)
			 and mulch with paddy straw / dried leaves. Weeding of the standing crop may be done,
			Monitoring of standing crops against attack of insect pests and diseases.
Ginger/turmeric	Vegetative stage	Rhizome rot	Under excessive moisture, there is every possibility of
Omger/turnierie	vegetative stage	Kilizoffic fot	rhizome rot in ginger and turmeric.
			To manage the disease, provide adequate drainage and
			apply Trichoderma harzianum @ 50 g/bed along with
			FYM/ neem cake.
			Mulching should be done with locally available mulch,
			Earthing up of exposed rhizome,
		HORT	TICULTURAL CROPS
Citrus	Maturity/	Fruit Drop	Harvest the mature fruit with stalk and store in dry places.
	harvesting	Fruit Fly	Dead wood pruning may be done after harvesting of crop
		Gummosis	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
			• 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
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Honey bees			,
Honey bees			· · · · · · · · · · · · · · · · · · ·

			LIVESTOCKS	
Livestock	Stage	Disease	Precautionary Practices to be followed	
			General	
0 0			e diverted for Poultry/livestock feeding	
	All stages	FMD (high fever	• Provide proper hedding materials especially to new-born	
Pigs	7 III stages	and appearance of mucous membrane of the mouth and foot.)	 piglets and lukewarm food & water Iron injection within 10 days of birth is advised to newly born piglets if they are kept in confined system Deworm with anti helmetic drugs (particularly Tapeworms) 	
		Swine Fever	 viz. Fento Plus @ 1 tablet per 30 kg body weight In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), 	
Cattle	All stages	FMD	 Provide proper bedding materials especially to new-born and lukewarm food & water Heavy mortality in cloven footed animals has been reported. Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) Provide feed supplements 	
Poultry	All stages		 Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultryshed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks. 	
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by 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			

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)