Agro-met Advisory Bulletin

(Period: 18th to 20th October 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

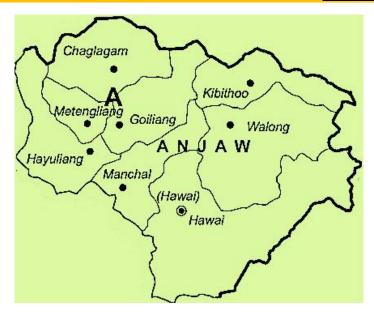


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Anjaw

No: 83/2017/Tue

Dated: 17th October, 2017



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

Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
No weather summary available	Sunny/Partly cloudy with possibility of light/moderate rainfall on 21 st & 22 nd Oct. Daily maximum and minimum temperature for the following period is predicted to be 25°C and 14°C respectively. Expected morning and evening relative humidity will be 46-88% and 16-71% respectively. Wind direction is mainly E at a speed range of 5-9 kmph.
Warning:	•

Weather Based Agro-meteorological Advisories Bulletin

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



Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Black Gram &	Sowing		• Sowing can be done in rice fallow of <i>jhum</i> without delay
Green Gram			Avoid water logging maintaining proper drainage
Pea	Sowing		• Treat pea with rhizobium@2gm/kg seed before sowing
Rice	Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	 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
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
Dotate	172 - 1.4	Dad A /	VEGETABLES Francisco de la la companya de la francisco de la
Potato	Field preparation/ sowing	Red Ants/ Cutworm	 Farmers are advised to prepare field for sowing of potato, Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Normal weight of potato-25-30 grams Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Rabi vegetables	Nursery		In present weather conditions, nursery sowing of hybrid
			 tomato, cauliflower and cabbage may be done. The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds. After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves. 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 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,
Guava	Fruiting	HOR	Basin cleaning
			 Install fruit fly pheromone traps for collection and destruction of the adult insects.
Kiwi	Fruiting		Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	 Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,

Pineapple Banana Large Cardamom	Sowing Bunching & planting Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	 To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground. 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. Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. Remove the male flower in banana bunches to attain better finger/fruit size. Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Need based spray of broad spectrum fungicide like carbendazim @2g/lit of water. Uproot & burn virus infected plants / Spray Imidacloprid
			17.8% SL @ 2ml/10 lit at 10-15 days interval. LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Damaged gr	ain (not fungus co	ontaminated) to b	General e diverted for Poultry/livestock feeding
• Clean drink	ing water snould	be ensurea rouna	 the clock and water troughs/feeders should be regularly cleaned, Application of quick lime is highly recommended in order to
Fishery			 Application of quick time 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 All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter
Cattle	All stages	FMD	 Remove wet litter In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals

		 The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short. 		
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 (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795- 226237/226247				

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

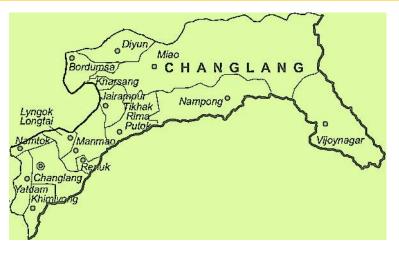


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Changlang

No: 83/2017/Tue

Dated: 17th October, 2017



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

Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall = Changlang: 0.0 mm Miao: 17.0 mm (up to 13 th Oct)	Partly/Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 31-32°C and 20-21°C respectively. Expected morning and evening relative humidity will be 67-96% and 37-86% respectively. Wind direction is mainly E with speed range of 2-6 kmph.
Warning	•

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



- In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, *Rabi* pulse, pea and oilseeds.
- Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Black Gram &	Sowing		• Sowing can be done in rice fallow of <i>jhum</i> without delay
Green Gram			Avoid water logging maintaining proper drainage
Pea	Sowing		 Treat pea with rhizobium@2gm/kg seed before sowing
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
Rice	Dough Grain filling	Gundhi bug	 Monitor crop against attack of gundhi bug, Weeding is advised to ward off the alternate host of gundhi
	stage		bug
			Install local trap of dead frog/fermented fish etc against
			gundhi bug in rice or spray triazophos/chloripyriphos@1-
			2ml/lit.
			• Need based spray of Flubendiamide 3.5% + Hexaconazole
			5% @ 2ml/lit against rice skipper & leaf folder using sticker
Groundnut	Pegging	Leaf	On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of
Groundia	1 Cggmg	Spot/tikka	water
		disease	 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
Potato	Field	Red Ants/	 Farmers are advised to prepare field for sowing of potato,
	preparation/	Cutworm	• Seed treatment-Cut pieces of potato should be dipped in
	sowing		Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing,
			Red Ants: - Drenching with Chlorpyriphos @ 2 ml per
			litre of water,
			Normal weight of potato-25-30 grams
			• Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Rabi vegetables	Nursery		In present weather conditions, nursery sowing of hybrid
			tomato, cauliflower and cabbage may be done.
			• The seeds should be sown on raised beds (15-20 cm) after
			treating seeds with Trichoderma @ 10 g/kg or with
			 <u>Captan/Thiram @ 2-3 g/kg seeds.</u> After sowing the seeds in the nursery, cover it with
			mixture of well rotten compost + friable soil + sand (2:1:1)
			and mulch with paddy straw / dried leaves.
			Weeding of the standing crop may be done,
			Monitoring of standing crops against attack of insect pests and diseases.
Tomato	Fruiting		Removing sideshoots is an important job which prevents
			the fruits being shaded by leaves.
			Provide shed to protect from excessive rainfall
Cucurbits	Harvesting	Aphid/	• On clear/dry weather, Spraying of Dimethoate 30 EC @
(Bottle gourd,Ridge		Red pumpkin beetle/	3ml/litre of water is advised against aphids,On clear/dry weather, Spraying of Deltamethrin 4ml/10
gourd,		Cutworm	litre of water is advised for management of Red pumpkin
Pumpkin,			beetle grass,
Bitter gourd,			• Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per
Cucumber, etc.)			plant.
c.c.,j		HORT	TICULTURAL CROPS
		HUMI	TOURIS ORDIN

Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	 Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.
Pineapple	Sowing		 Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.
Guava	Fruit Development	Fruit fly	 Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Banana	Fruiting/ Ripening	Scary beetle	 To control scary beetle – application of Malathion dust @ 0.5% is advised, Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and 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	Seedling	,	Mulching with locally available materials like dry grass/paddy straw recommended
			Honey Bees
Honey bees			Box must be covered with straw/dry leaves to provide warmth Provide sugar syrup
			Provide sugar syrup LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Damaged gr	rain (not fungus co	ontaminated) to b	General oe diverted for Poultry/livestock feeding
• Clean drink		be ensured round	the clock and water troughs/feeders should be regularly cleaned,
Poultry	All stages All stages		 Deworming for gastrointestinal parasite Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water
			 Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against

Fishery		Swine Fever	 Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), 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 		
Cattle	All stages	FMD	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short. 		
Contact Scient	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call				

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

at 03795-226237/226247

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(Period: 18th to 20th October 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: 83/2017/Tue

Dated: 17th October, 2017



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

Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall = $1.0 \text{ mm (Anini) } (\text{up to } 13^{\text{th}} \text{ Oct)}$	Sunny/Partly cloudy with possibility of light/moderate rainfall on
	21 st & 22 nd Oct. Daily maximum and minimum temperature for the
	following period is predicted to be 24°C and 14-15°C respectively.
	Expected morning and evening relative humidity will be 44-93% and
	18-67% respectively. Wind direction is mainly E with speed range of
	5-10 kmph.
Warning:	•

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
Black Gram &	Sowing		• Sowing can be done in rice fallow of <i>jhum</i> without delay
Green Gram			Avoid water logging maintaining proper drainage
Pea	Sowing		Treat pea with rhizobium@2gm/kg seed before sowing
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
Jhum rice	Harvesting		Immediate harvesting of left-over rice
			 Proper sun drying before storage
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	 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
Pulses	Flowering	Blister beetle	Go for manual picking of Blister beetle without delay because
T GISCS	1 to wering	Blister seeme	the incidence of the pest during flowering stage cause huge
			lose in harvest
			VEGETABLES
Rabi vegetables	Nursery		In present weather conditions, nursery sowing of hybrid
Rabi vegetables	ruisery		tomato, cauliflower and cabbage may be done.
			• The seeds should be sown on raised beds (15-20 cm) after
			treating seeds with <i>Trichoderma</i> @ 10 g/kg or with
			Captan/Thiram @ 2-3 g/kg seeds.
			 After sowing the seeds in the nursery, cover it with
			mixture of well rotten compost + friable soil + sand (2:1:1)
			 and mulch with paddy straw / dried leaves. Weeding of the standing crop may be done,
			 Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Okra	Maturing	Pod borer	Harvesting and marketing of tender okra fruits,
OKIa	Wiaturing	1 od bolci	 Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	Under excessive moisture, there is every possibility of
Omger/turmerie	vegetative stage	Killzonic 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,
C'.	T 1:		TICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	• Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month.
			 Follow clean cultivation and bury fallen fruit in a pit and
			cover it with soil every day.
			There are reports of attack of Gummosis in orchards,
			 Drenching with Ridimil @ 2.5 grams per litre of water is advised
			• Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done,
			To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the
			ground.

Pigs All stages FMD Poultry	ineapple	Sowing		Clean the vicinity of plants by weeding and loosen up the soil.
Sucker dipping treatment with Bavistrin @ 3g + Chlorpy 20EC@ 2ml/It of water to protect against soil borne and insect.	пеарріс	Sowing		
Ginger/Turmeric Seedling - Mulching with locally available materials like dry grass straw recommended - Proper drainage to be done and avoid water stagnation of Earthing up of ginger/turmeric along with basal applica required fertilizer should be done - Desuckering of banan a to be done leaving one suckers palant to maintain the health of mother plant and support in banana bunches to attain bet finger/fruit size. - Remove excess sucker from Banana in mother plant and support in banana bunches to protect falling due to heav weight or storm. Apple Vegetative Wooly aphids - Swab the stem with mineral oil against wooly aphid. Honey Bees				 Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos
Seedling				20EC@ 2ml/lt of water to protect against soil borne disease
Straw recommended Proper drainage to be done and avoid water stagnation Earthing up of ginger/turmeric along with basal applica required fertilizer should be done Desuckering of banana to be done leaving one suckers p plant to maintain the health of mother plant. Remove the male flower in banana bunches to attain bet finger/fruit size. Remove excess sucker from Banana in mother plant and support in banana bunches to protect falling due to heav weight or storm. Swab the stem with mineral oil against wooly aphid. Honey Bees In case of rain provide sugar syrup LIVESTOCKS Livestock Stage Disease Precautionary Practices to be followed General General General General FMD (high fever and appearance of functions with mineral oil against wooly aphid General FMD (high fever and appearance of mucous membrane of the mouth and foot.) Reduce concentrate diet up to 5% Provide adequate potable water Provide preventive dose of anti-coccidial drugs to poultry Provide adequate potable water Provide preventive dose of anti-coccidial drugs to poultry Provide adequate potable water Provide preventive dose of anti-coccidial drugs to poultry Provide adequate potable water Provide preventive dose of anti-coccidial drugs to poultry Provide adequate potable water Provide preventive dose of anti-coccidial drugs to poultry Provide adequate potable water Provide provide supprevision and recommended doses. Provide provide water Provide water Provide water Provide provide water Provide provide water Provide water Provide water Provi				and insect.
Banana Bunching & planting Bunching & planting Banana Bunching & plant to maintain the health of mother plant. Remove the male flower in banana bunches to attain bet finger/fruit size. Remove excess sucker from Banana in mother plant and support in banana bunches to protect falling due to heav weight or storm. Apple Vegetative Wooly aphids • Swab the stem with mineral oil against wooly aphid. Honey Bees Livestock Stage Disease Precautionary Practices to be followed Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding Pigs All stages FMD (high fever and appearance of mucous membrane of the mouth and foot.) Poultry All stages Provide preventive dose of anti-cocidial drugs to poultry Provide proventive dose of anti-cocidial drugs to poultry Provide proventive dose of anti-cocidial drugs to poultry Provide proventive dose of anti-cocidial drugs to poultry Provide broad-spectrum antihelminthic drugs unde supervision and recommended doses. Provide broad-spectrum antihelminthic drugs unde supervision and recommended doses. Vaccination as per the schedule with proper consultation wit > Day old chick: HVT Marck disease vaccine, 4 FLasota, 6-7 weeks: Chicken embryo adopted for vaccine and 56-70 days: RD R-2B strain. Remove wet litter Cattle All stages FMD All stages FMD In present weather conditions, special care should be against attack of maggots in the wounds follow application of antiblotics for five days is advised. Provide UMBA/Molases if possible in the feed Provide Underfollowed by annual vaccination under supervision "injection followed by annual vaccination under supervision of sets and a supervision and 6-8 weeks of age, 2 ^{nst} injection after 6 mon 1 ^{nst} injecti	inger/Turmeric	Seedling		ividicining with recally available materials like ary grass, paddy
Banana Bunching & planting Banana Bunching Bananana Bunches Banana Bunches Banana Bunches Banana Bunching B				
Banana Bunching & planting Banana Bunching & planting Banana Bunching & plant to maintain the health of mother plant. Remove the male flower in banana bunches to attain bet finger/fruit size. Remove the male flower in banana bunches to attain bet finger/fruit size. Remove excess sucker from Banana in mother plant and support in banana bunches to protect falling due to heav weight or storm. Apple Vegetative Wooly aphids Board Apple Vegetative Wooly aphids Board Bo				
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Remove the male flower in banana bunches to attain bet finger/fruit size. Remove excess sucker from Banana in mother plant and support in banana bunches to protect falling due to heav weight or storm. Honey Bees Honey bees Livestock Stage Disease Precautionary Practices to be followed General Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly clear and appearance of mucous membrane of the mouth and foot.) Poultry All stages Provide preventive dose of anti-coccidial drugs to poultry. Proyee preventive dose of anti-coccidial drugs to poultry. Provide provides water Avoid overcrowding. Provide provad-spectrum antihelminthic drugs unde supervision and recommended doses. Vaccination as per the schedule with proper consultation wit	anana	•		2 concining of cumum to oc come for mig one suchers per
Apple Vegetative Wooly aphids • Remove excess sucker from Banana in mother plant and support in banana bunches to protect falling due to heav weight or storm. Honey Bees Honey bees In case of rain provide sugar syrup		& planting		*
Remove excess sucker from Banana in mother plant and support in banana bunches to protect falling due to heav weight or storm.				
Apple Vegetative Wooly aphids Swab the stem with mineral oil against wooly aphid.				Remove excess sucker from Banana in mother plant and give
Honey bees				support in banana bunches to protect falling due to heavy
Honey Bees	nnle	Vegetative	Wooly aphids	
Livestock Stage Disease Precautionary Practices to be followed	ppie	vegetative	woory apinus	
Livestock Stage Disease Precautionary Practices to be followed General Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly clean and appearance of mucous membrane of the mouth and foot.) Poultry All stages Poultry All stages Poultry All stages Poultry All stages Provide adequate potable water Provide preventive dose of anti-coccidial drugs to poultry Proper ventilation of shed Provide glucose/electral along with vitamin supplements form! Too birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs unde supervision and recommended doses. Vaccination as per the schedule with proper consultation wit Day old chick: HVT Marek disease vaccine, 4-7 F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 3: F/Lasota, 6-7 weeks: Chicken embryo adopted for vaccine and 56-70 days: RD R-2B strain. Remove wet litter Cattle All stages FMD In present weather conditions, special care should be against attack of maggots in the wounds of an Application of turpentine oil in the wounds of an Application of autibiotics for five days is advised. Provide UMB/Molases if possible in the feed	oney bees			
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				• The animal should be washed with lukewarm water added with
little potash (KMnO ₄) or neem leaves				
• Long hair near the udder/stomach/back legs should be short.				 Long hair near the udder/stomach/back legs should be teamed short.
	Pigs	All stages	FMD (high fever	
and appearance bedding (straw) to be provided to young animals,				bedding (straw) to be provided to young animals,
				• 1 st injection at 6 months of age and 2 nd injection at 12 months of age followed by annual vaccination under vet supervision against
mouth and foot.) age followed by annual vaccination under vet supervision in the mouth and foot.)				age ronowed by annual vaccination under yet supervision against
Swine Fever • Reduce concentrate diet up to 5%				

		 Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), 	
Fishery		 Application of quick lime is highly recommended in order to rectify water pH. Application of fish feed (mustard oil cake) is essential for achieving higher yield 	
Mithun	FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. 	
Contact 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: 18th to 20th October 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: East Kameng

No: 83/2017/Tue

Dated: 17th October, 2017



Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall =0.0 mm (up to 13 th Oct)	Partly/mostly cloudy with possibility of very light rainfall on 21 st & 22 nd Oct. Daily maximum and minimum temperature for the following period is predicted to be 29-30°C and 17-18°C respectively. Expected morning and evening relative humidity will be 64-98% and 35-89% respectively. Expected wind direction is mainly SE & ESE with speed range of 2-7 kmph.
Warning:	•

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

- In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, *Rabi* pulse, pea and oilseeds.
- Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed			
	FIELD CROPS					
Black Gram &	Sowing		Sowing can be done in rice fallow of <i>jhum</i> without delay			
Green Gram			Avoid water logging maintaining proper drainage			
Pea	Sowing		 Treat pea with rhizobium@2gm/kg seed before sowing 			
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	 Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage. Alternate drying and wetting of field is highly desirable in WRC field Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit. Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper & leaf folder using sticker 			
Groundnut	Pegging	Leaf Spot/tikka disease	 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			
Potato	Field preparation/ sowing	Red Ants/ Cutworm	 Farmers are advised to prepare field for sowing of potato, Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Normal weight of potato-25-30 grams Spacing: - 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant 			
Rabi vegetables	Nursery		 In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done. The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds. After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves. Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases. 			
			TICULTURAL CROPS			
Citrus	Fruit development stage	Citrus Canker Soot Grab	 Undertake necessary tillage operation if there is no rain. Remove weeds from the tree basin and prepare ring around the tree. Due to high humidity the problem of citrus canker get aggravated in acid lime leading to excessive fruit drop. Spray copper oxychloride 180 gms with spreptocycline 6 gms in 60 liters of water to control canker Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently. Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab. 			
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection)	Mulching with locally available materials like dry grass/paddy			

		& Chirke and Foorkey (virus infection)	 straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
Pineapple	Active vegetative	intection	 Mulching with locally available materials like dry grass/paddy straw recommended Remove excess suckers to increase fruit size and improve quality.
Banana	Bunching & planting		 Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. Remove the male flower in banana bunches to attain better finger/fruit size. Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.
Ginger/Turmeric	Seedling		 Mulching with locally available materials like dry grass/paddy straw recommended Proper drainage to be done and avoid water stagnation Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Orchards			 Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards Agroforestry
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
. D	· (4 - 6	4 1) 4 - 1-	General
			be diverted for Poultry/livestock feeding I the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against
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		 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter
Cattle	All stages	FMD	• In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.
1	1		Provide UMB/Molases if possible in the feed

		 Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
Mithun	FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICA	AR) or State Agril Staff or	KVK staff for measures against adverse conditions or call at 03795- 226237/226247

Agro-met Advisory Bulletin

(Period: 18th to 20th October 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: East Siang

No: 83/2017/Tue

Dated: 17th October, 2017



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

Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall: 0.0 mm; T. Max: 35.0°C; T. Min:	Sunny/cloudy with possibility of light/moderate rainfall on 21st
23.0°C; RH: 68-81% (up to 13 th Oct)	& 22 nd Oct. Daily maximum and minimum temperature for the
	following period is predicted to be 32-33°C and 22-23°C
	respectively. Expected morning and evening relative humidity will
	be 56-97% and 24-76% respectively. Expected wind direction is
	mainly W with speed range of 2-6 kmph.
Warning:	•

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

- In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, *Rabi* pulse, pea and oilseeds.
- Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Black Gram &	Sowing		• Sowing can be done in rice fallow of <i>jhum</i> without delay
Green Gram			Avoid water logging maintaining proper drainage
Pea	Sowing		Treat pea with rhizobium@2gm/kg seed before sowing
Rice	Dough	Gundhi bug	 Monitor crop against attack of gundhi bug,
	Grain filling		Weeding is advised to ward off the alternate host of gundhi
	stage		bug
			• Install local trap of dead frog/fermented fish etc against
			gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.
			Need based spray of Flubendiamide 3.5% + Hexaconazole
			5% @ 2ml/lit against rice skipper & leaf folder using
Maize	CRI or tasseling	Rat	sticker Maintain adagmata maigtung lavel in the field whom any in
Maize	stage/	Kat	• <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
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
Groundnut	Pegging	Leaf	On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of
		Spot/tikka	water
		disease	Do not disturb the soil structure by spading/hoeing in the field.
			Hand weeding with care is recommended. **HECETEA DATE: **THE CENTER DATE: **TH
Potato	Field	Red Ants/	 VEGETABLES Farmers are advised to prepare field for sowing of potato,
Totato	preparation/	Cutworm	 Farmers are advised to prepare field for sowing of potato, Seed treatment-Cut pieces of potato should be dipped in
	sowing		Diethane M-45 @ 2 grams per litre of water for ½ hours
			before sowing,
			• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per
			litre of water,Normal weight of potato-25-30 grams
			• Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to
			Plant
Rabi vegetables	Nursery		• <u>In present weather conditions, nursery sowing of hybrid</u>
			tomato, cauliflower and cabbage may be done.
			• The seeds should be sown on raised beds (15-20 cm) after treating seeds with <i>Trichoderma</i> @ 10 g/kg or with
			Captan/Thiram @ 2-3 g/kg seeds.
			After sowing the seeds in the nursery, cover it with
			mixture of well rotten compost + friable soil + sand (2:1:1)
			 and mulch with paddy straw / dried leaves. Weeding of the standing crop may be done,
			 Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests
			and diseases.
Cucurbits	Harvesting	Aphid/	On clear/dry weather, Spraying of Dimethoate 30 EC @
(Bottle gourd,Ridge		Red pumpkin beetle/	3ml/litre of water is advised against aphids,
gourd,		Cutworm	• On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin
Pumpkin,			beetle grass,
Bitter gourd,			• Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per
Cucumber, etc.)			plant.
Tomato	Fruiting		Removing sideshoots is an important job which prevents
	110101119		the fruits being shaded by leaves.
			 As temperatures rise, keep watering your plants, but
			avoid watering the leaves excessively that may lead to
			avoid watering the leaves excessively that may lead to

			disease infestation.
Ginger/turmeric	Vegetative stage	Soft Rot	 Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
			ICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	 Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.
Pineapple	Sowing		 Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.
Guava	Fruit Development	Fruit fly	 Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Banana	Fruiting/ Ripening		 Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.
Large Cardamom Ginger/Turmeric	Flowering stage Seedling	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. Proper drainage to be done and avoid water stagnation
Ginger/Turnerie	beeding		 Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
TT 1			Honey Bees
Honey bees			On prolong rain, provide sugar syrup
			LIVESTOCKS
	_		Precautionary Practices to be followed General e diverted for Poultry/livestock feeding
		be ensured round	the clock and water troughs/feeders should be regularly cleaned,
Goat Fishery	All stages		Deworming for gastrointestinal parasiteApplication of quick lime is highly recommended in order to
			rectify water pH.Application of fish feed (mustard oil cake) is essential for achieving higher yield
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever

			(Vaccines available in State Veterinary Depts),		
Poultry	All stages		 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. 		
Cattle	All stages	FMD	 Remove wet litter In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short. 		
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. 		
Contact Scien	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call				

at 03795-226237/226247

Agro-met Advisory Bulletin

(Period: 18th to 20th October 2017)





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: 83/2017/Tue

Dated: 17th October, 2017



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

Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Past weather summary not available	Sunny/Partly cloudy with possibility moderate rainfall on 21 st & 22 nd Oct. Daily maximum and minimum temperature for the
	following period is predicted to be 24°C and 14°C respectively. Expected morning and evening relative humidity will be 68-97% and 30-74% respectively. Wind direction is mainly W with wind speed range of 2-7 kmph.
Warning	•

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

Maize CI	RI or tasseling		FIELD CROPS
Maize CI	RI 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
	Panicle itiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	 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
Jhum rice	Harvesting		 Immediate harvesting of left-over rice advocated Proper sun drying before storage.
	,		VEGETABLES
Cauliflower /Cabbage	Nursery Preparation	Cut worm	 Maintain proper moisture level in the nursery. Nursery preparation for early cruciferous crops may be done in raised bed (Preferable in shaded area), 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
Rabi vegetables	Nursery		• In present weather conditions, raising nursery of hybrid tomato, cauliflower and cabbage may be done. The seeds should be sown on raised bed (15-20 cm) after treating with <i>Trichoderma</i> @ 10 g/kg are with Captan/Thiram @ 3 g/kg seeds. After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves.
Okra	Maturing	Pod borer	 Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Ginger/turmeric Ve	egetative stage	Rhizome rot	 Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric. To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake. Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
			ICULTURAL CROPS
	Fruit development stage	Fruit Drop Fruit Fly Gummosis	 Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.
	owing		 Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.
	Vegetative		 Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw to protect from heavy rainfall
Large Cardamom Flo	lowering stage	Chirkey Disease (fungal inection)	 Mulching with locally available materials like dry grass/paddy straw recommended

		& Chirke and Foorkey (virus infection)	•	Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
Banana	Bunching & planting		•	Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. Remove the male flower in banana bunches to attain better finger/fruit size. Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Ginger/Turmeric	Vegetative		•	Proper drainage to be done and avoid water stagnation Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
			Hone	ey Bees
			•	Box must be covered with straw/dry leaves to provide warmth
			LIVES	STOCKS

LIVESTOC

General

• Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding

Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,
 Livestock Stage Disease Precautionary Practices to be followed

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	 bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
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		 Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Provide adequate clean drinking water+electrolyte and multivitamins Vaccination as per the schedule with proper consultation with vet. ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter
Cattle	All stages	FMD	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals

		 The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
Mithun	FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists		or KVK staff for measures against adverse conditions or call

Agro-met Advisory Bulletin

(Period: 18th to 20th October 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: 83/2017/Tue

Dated: 17th October, 2017



Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall = 0.0 mm	Partly/mostly cloudy with possibility of light/moderate rainfall.
(up to 13 th Oct)	Daily maximum and minimum temperature for the following period is
	predicted to be 31°C and 18-19°C respectively. Expected morning and
	evening relative humidity will be 57-91% and 28-79% respectively.
	Wind direction is mainly ENE with speed range of 3-7 kmph.
Warning:	•

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
71			FIELD CROPS
Black Gram & Green Gram	Sowing		 Sowing can be done in rice fallow of <i>jhum</i> without delay Avoid water logging maintaining proper drainage
Pea	Sowing		Treat pea with rhizobium@2gm/kg seed before sowing
Maize	CRI or tasseling	Rat	Maintain adequate moisture level in the field where crop is
I I I I I I I I I I I I I I I I I I I	stage/	Rut	in CRI stage or in tasseling stage.
	Harvesting		Harvest mature cobs and dry properly before storing
			 Use locally available traps to control rats menace
Rice	Dough Grain filling	Gundhi bug	• Maintain at least 5 mm water level in the rice field where crop is in grain filling stage or at tillering stage.
	stage		 Alternate drying and wetting of field is highly desirable in WRC field
			Monitor crop against attack of gundhi bug,Weeding is advised to ward off the alternate host of gundhi
			bug
			• Install local trap of dead frog/fermented fish etc against
			gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.
			 Need based spray of Flubendiamide 3.5% + Hexaconazole
			5% @ 2ml/lit against rice skipper & leaf folder using sticker
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
D	77: 11		VEGETABLES
Potato	Field preparation/	Red Ants/ Cutworm	• Farmers are advised to prepare field for sowing of potato,
	sowing	Cutworm	• Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours
	23228		before sowing,
			• Red Ants: - Drenching with Chlorpyriphos @ 2 ml per
			litre of water,
			Normal weight of potato-25-30 grams Out of Normal Weight of Potato-25-30 grams Out of Normal Weight of Potato-25-30 grams
1			 Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Rabi vegetables	Nursery		In present weather conditions, nursery sowing of hybrid
			 tomato, cauliflower and cabbage may be done. The seeds should be sown on raised beds (15-20 cm) after
			treating seeds with <i>Trichoderma</i> @ 10 g/kg or with
			Captan/Thiram @ 2-3 g/kg seeds.
			• After sowing the seeds in the nursery, cover it with
			mixture of well rotten compost + friable soil + sand (2:1:1)
			 and mulch with paddy straw / dried leaves. Weeding of the standing crop may be done,
			 Monitoring of standing crops against attack of insect pests
			and diseases.
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 gourd,		beetle/ Cutworm	• On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin
Pumpkin,		Gatworm	beetle grass,
Bitter gourd,			 Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per
Cucumber, etc.)			plant.
Tomato	Fruiting		Removing sideshoots is an important job which prevents
			the fruits being shaded by leaves.
		TTOP	Provide shed to protect from excessive rainfall CHAINER COLORS
Citrus	Fruit	HORT Fruit Drop	ICULTURAL CROPS Crosts smalls in archard with gross (wet) saw dung saless
Ciuus	development	Fruit Drop Fruit Fly	• Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to
	stage	Gummosis	10 pm during this month.
ı			
			 Follow clean cultivation and bury fallen fruit in a pit and

Pineapple	Sowing		 There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground. 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
Guava	Fruit Development	Fruit fly	 and insect. Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction
Banana	Fruiting/ Ripening		 of the adult insects Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.
Ginger/Turmeric	Active vegetative		Mulching with locally available materials like dry grass/paddy straw recommended
Honey bees			 Honey Bees Provide sugar syrup near the box Add insulation and ventilation systems 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, • Deworming for gastrointestinal parasite
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against
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		 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox
			vaccine and 56-70 days: RD R-2B strain. • Remove wet litter

 Provide 10-30 ml of vitamin B-Complex in feed
• 1 st injection at 6-8 weeks of age, 2 nd injection after 6
months of 1st injection followed by annual vaccination
under vet supervision
Separate sick animals
The animal should be washed with lukewarm water added
with little potash (KMnO ₄) or neem leaves
 Long hair near the udder/stomach/back legs should be teamed
short.

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: 18th to 20th October 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: 83/2017/Tue

Dated: 17th October, 2017



Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall = 0.0 mm (Roing) (up to 13 th Oct)	Sunny/Partly cloudy with possibility of light/moderate rainfall on
	21 st & 22 nd Oct. Daily maximum and minimum temperature for the
	following period is predicted to be 27°C and 17-18°C respectively.
	Expected morning and evening relative humidity will be 44-94% and
	18-72% respectively. Wind direction is mainly E with speed range of
	4-9 kmph.
Warning:	•

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

- In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, *Rabi* pulse, pea and oilseeds.
- Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Black Gram &	Sowing		• Sowing can be done in rice fallow of <i>jhum</i> without delay
Green Gram			Avoid water logging maintaining proper drainage
Pea	Sowing		• Treat pea with rhizobium@2gm/kg seed before sowing
Rice	Dough Grain filling stage	Gundhi bug	 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 Monitor crop against attack of gundhi bug, Weeding is advised to ward off the alternate host of gundhi bug Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit. Need based spray of Flubendiamide 3.5% + Hexaconazole
			5% @ 2ml/lit against rice skipper & leaf folder using sticker
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
Groundnut	Pegging	Leaf	On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of
		Spot/tikka	water
		disease	• Do not disturb the soil structure by spading/hoeing in the field.
			Hand weeding with care is recommended.
D	F: 11	Red Ants/	VEGETABLES
Potato	Field preparation/ sowing	Cutworm	 Farmers are advised to prepare field for sowing of potato, Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Normal weight of potato-25-30 grams Spacing: - 45 X 45 cm Row to Row, 20 X 20 cm Plant to
Rabi vegetables	Nursery		 In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done. The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds. After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves. Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	 On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.

Guava	Fruit Development	Fruit fly	 Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	 Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.
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.
Banana	Fruiting/ Ripening		 Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.
Large Cardamom	Flowering stage	Chirkey Disease	Mulching with locally available materials like dry grass/paddy
		(fungal inection) &	straw recommended
		Chirke and Foorkey (virus infection)	 Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
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 • Damaged or	Stage	Disease	Precautionary Practices to be followed General be diverted for Poultry/livestock feeding
	_		the clock and water troughs/feeders should be regularly cleaned,
Goat	All stages		Deworming for gastrointestinal parasite
Poultry	All stages		 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-
			 6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet
			 supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days:
			F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.
D'	A 11	EMD 4: 1 c	Remove wet litter
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• 1 st injection at 6 months of age and 2 nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD
		1 10000)	- Reduce concentrate thet up to 370

			Provide adequate potable water
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
Cattle	All stages	FMD	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.

at 03795-226237/226247

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: - IAAS.BASAR@gmail.com, Phone Number: - 03795-226247/37, -96 (Fax)

Agro-met Advisory Bulletin

(Period: 18th to 20th October 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: 83/2017/Tue

Dated: 17th October, 2017



Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall = NA	Sunny/Partly cloudy with possibility of light rainfall on 21st &
	22 nd Oct. Daily maximum and minimum temperature for the
	following period is predicted to be 29-30°C and 17-18°C
	respectively. Expected morning and evening relative humidity will
	be 66-98% and 33-78% respectively. Wind direction is mainly
	WSW with speed range of 2-7 kmph.
Warning:	•

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

- In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, *Rabi* pulse, pea and oilseeds.
- Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
Стор	Stage	1 CSU DISCASC	FIELD CROPS
Black Gram &	Sowing		Sowing can be done in rice fallow of <i>jhum</i> without delay
Green Gram	_		Avoid water logging maintaining proper drainage
Pea	Sowing		Treat pea with rhizobium@2gm/kg seed before sowing
Rice	Dough Grain filling stage	Gundhi bug	 Monitor crop against attack of gundhi bug, Weeding is advised to ward off the alternate host of gundhi bug Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit. Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper & leaf folder using sticker
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.
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
Pulses	Flowering	Blister beetle	 Application of fertilizers and spray operations to be delayed/avoided Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest
			VEGETABLES
Okra	Maturing	Pod borer	 Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Rabi vegetables	Nursery		 In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done. The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds. After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves. 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 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,
Citana	Pte		CICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	 Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised

			 Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the
			ground.
Pineapple	Sowing		Clean the vicinity of plants by weeding and loosen up the soil.
	28		Remove sly and use it as a new planting material.
			• Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos
			20EC@ 2ml/lt of water to protect against soil borne disease
			and insect.
Guava	Fruit	Fruit fly	Basin cleaning and manuring
	Development		• Install fruit fly pheromone traps for collection and destruction
Banana	Fruiting/		 of the adult insects Cover bunches with banana bunch covers or sacks or
Danana	Ripening		locally available materials to protect against sunscald,
	rapening		birds and insects.
Kiwi	Vegetative		Manuring with well decomposed FYM@15kg/plant followed
	C		by mulching with paddy straw.
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	Mulching with locally available materials like dry grass/paddy
	5 8	(fungal inection)	
		&	Remove diseased part & keep inflorescence clean
		Chirke and Foorkey (virus	Uproot & burn virus infected plants
		infection)	
Orchards			Prepare half moon terraces in fruit crops
			(orange/banana/apple/peach) grown in steep slopes to prevent
			nutrient loss during heavy downpour.
			 Follow proper drainage and earthing up practices in low
			land/plain areas to avoid water stagnation in fruit orchards
Toko palm	Nursery		
Toko palm	Nursery		land/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings
-	Nursery		land/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings Honey Bees
Toko palm Honey bees	Nursery		land/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings
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-	Nursery Stage	Disease	Iand/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings Honey Bees Box must be covered with straw/dry leaves to provide warmth
Honey bees		Disease	land/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings Honey Bees Box must be covered with straw/dry leaves to provide warmth LIVESTOCKS
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Honey bees Livestock Damaged gr	Stage ain (not fungus co	ontaminated) to b be ensured round FMD (high fever	Iand/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings Honey Bees Box must be covered with straw/dry leaves to provide warmth LIVESTOCKS Precautionary Practices to be followed General de diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Animals to be housed in dry place or kept in alleviated area and dry
Honey bees Livestock Damaged gr Clean drink	Stage ain (not fungus co	ontaminated) to be ensured round FMD (high fever and appearance	Iand/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings Honey Bees Box must be covered with straw/dry leaves to provide warmth LIVESTOCKS Precautionary Practices to be followed General de diverted for Poultry/livestock feeding I the clock and water troughs/feeders should be regularly cleaned, Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals,
Honey bees Livestock Damaged gr Clean drink	Stage ain (not fungus co	ontaminated) to b be ensured round FMD (high fever	I the clock and water troughs/feeders should be regularly cleaned, Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1 st injection at 6 months of age and 2 nd injection at 12 months of
Honey bees Livestock Damaged gr Clean drink	Stage ain (not fungus co	ontaminated) to be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Iand/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings Honey Bees • Box must be covered with straw/dry leaves to provide warmth LIVESTOCKS Precautionary Practices to be followed General the clock and water troughs/feeders should be regularly cleaned, • Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against
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Honey bees Livestock Damaged gr Clean drink	Stage ain (not fungus co	ontaminated) to be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Iand/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings Honey Bees Box must be covered with straw/dry leaves to provide warmth LIVESTOCKS Precautionary Practices to be followed General de diverted for Poultry/livestock feeding I the clock and water troughs/feeders should be regularly cleaned, Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water
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Honey bees Livestock Damaged gr Clean drinki Pigs	Stage ain (not fungus coing water should) All stages	ontaminated) to be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	I and/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings Honey Bees Box must be covered with straw/dry leaves to provide warmth LIVESTOCKS Precautionary Practices to be followed General de diverted for Poultry/livestock feeding I the clock and water troughs/feeders should be regularly cleaned, Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Honey bees Livestock Damaged gr Clean drink	Stage ain (not fungus co	ontaminated) to be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Ind/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings Honey Bees Box must be covered with straw/dry leaves to provide warmth LIVESTOCKS Precautionary Practices to be followed General de diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
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Honey bees Livestock Damaged gr Clean drinki Pigs	Stage ain (not fungus coing water should) All stages	ontaminated) to be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Iland/plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings Honey Bees Box must be covered with straw/dry leaves to provide warmth LIVESTOCKS Precautionary Practices to be followed General de diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned, Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water
Honey bees Livestock Damaged gr Clean drinki Pigs	Stage ain (not fungus coing water should) All stages	ontaminated) to be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Isolar plain areas to avoid water stagnation in fruit orchards Agroforestry Filling of nursery polybags for raising of takopalm seedlings Honey Bees Box must be covered with straw/dry leaves to provide warmth LIVESTOCKS Precautionary Practices to be followed General diverted for Poultry/livestock feeding Ithe clock and water troughs/feeders should be regularly cleaned, Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, Ist injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts), Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding.
Honey bees Livestock Damaged gr Clean drinki Pigs	Stage ain (not fungus coing water should) All stages	ontaminated) to be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Filling of nursery polybags for raising of takopalm seedlings
Honey bees Livestock Damaged gr Clean drinki Pigs	Stage ain (not fungus coing water should) All stages	ontaminated) to be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Filling of nursery polybags for raising of takopalm seedlings Honey Bees
Honey bees Livestock Damaged gr Clean drinki Pigs	Stage ain (not fungus coing water should) All stages	ontaminated) to be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Filling of nursery polybags for raising of takopalm seedlings Honey Bees
Honey bees Livestock Damaged gr Clean drinki Pigs	Stage ain (not fungus coing water should) All stages	ontaminated) to be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Filling of nursery polybags for raising of takopalm seedlings Honey Bees

			F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox
			vaccine and 56-70 days: RD R-2B strain.
			Remove wet litter
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
Cattle	All stages	FMD	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
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. Proposition of the control of t
C44 C •	Ation (ICAD) C	4-4- A 1 C4 C	• Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

Agro-met Advisory Bulletin

(Period: 18th to 20th October 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: 83/2017/Tue

Dated: 17th October, 2017



Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall: 0.0 mm; T. Max: 37.0°C; T. Min:	Partly/mostly cloudy with possibility of moderate rainfall on 21st
22.0°C; RH: 61-85% (up to 13th Oct)	and 22 nd Oct. Daily maximum and minimum temperature for the
	following period is predicted to be 33°C and 22°C respectively.
	Expected morning and evening relative humidity will be 65-97%
	and 42-83% respectively. Expected wind direction mainly ESE with
	speed range of 3-6 kmph.
Warning:	•

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

- In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, *Rabi* pulse, pea and oilseeds.
- Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Black Gram & Green Gram	Sowing		 Sowing can be done in rice fallow of <i>jhum</i> without delay Avoid water logging maintaining proper drainage
Pea	Sowing		Treat pea with rhizobium@2gm/kg seed before sowing
Rice	Dough Grain filling stage	Gundhi bug	 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 Monitor crop against attack of gundhi bug, Weeding is advised to ward off the alternate host of gundhi bug Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit. Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper & leaf folder using sticker
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
Potato	Field preparation/ sowing	Red Ants/ Cutworm	 Farmers are advised to prepare field for sowing of potato, Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Normal weight of potato-25-30 grams Spacing: - 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Rabi vegetables	Nursery		 In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done. The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds. After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves. Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	 On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids, On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass, Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.
Tomato	Fruiting		 Removing sideshoots is an important job which prevents the fruits being shaded by leaves. Provide shed to protect from excessive rainfall
Summer Vegetables	Multiple stages		 Mulching with locally available materials like dry grass/paddy straw recommended Use pheromone traps/light traps against brinjal shoot and fruit borer.
			New nursery should be raised inside well covered structure

			with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	 Mulching with locally available materials like dry grass/paddy straw recommended Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
Citrus	Fruit	Fruit Drop	Create smoke in orchard with grass (wet) cow dung cakes
Citrus	development stage	Fruit Fly Gummosis	 Create shoke in orchard with grass (web) tow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.
Pineapple	Sowing		 Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.
Guava	Fruit Development	Fruit fly	 Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Banana	Fruiting/ Ripening		 Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.
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
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
Orchards		,	 Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
TT 1			Honey Bees
Honey bees			Box must be covered with straw/dry leaves to provide warmth **TANGET OF CASE **TANGET OF CASE
Livestock	Stano	Disease	LIVESTOCKS Precautionary Practices to be followed
Damaged gr Clean drink	ing water should	ontaminated) to b	General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Goat	All stages	THE CLASS	Deworming for gastrointestinal parasite
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the	 Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against

		mouth and foot.) Swine Fever	 FMD Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Poultry	All stages		 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter
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
Cattle	All stages	FMD	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.

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

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

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 18th to 20th October 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: 83/2017/Tue

Dated: 17th October, 2017



Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall = $0.0 \text{ mm } (\mathbf{up to 13^{th} Oct})$	Partly cloudy with possibility of no rainfall. Daily maximum and
	minimum temperature for the following period is predicted to be 21-
	23-24°C and 12°C respectively. Expected morning and evening
	relative humidity will be 62-96% and 24-80% respectively. Wind
	direction is mainly E & WSW with probable speed range of 4-6
	kmph.
Warning:	•

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
			FIELD	CROPS
Rice	Panicle initiation/ Dough Grain filling	Gundhi bug/ leaf folder/ rice skipper	•	Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-
	stage	skippei		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
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
			VEGE	TABLES
Cauliflower	Nursery	Cut worm	•	Maintain proper moisture level in the nursery.
/Cabbage	Preparation		•	Nursery preparation for early cruciferous crops may be done
			•	in raised bed (Preferable in shaded area), 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
Rabi vegetables	Nursery		•	In present weather conditions, raising nursery of hybrid
				tomato, cauliflower and cabbage may be done. The seeds
				should be sown on raised bed (15-20 cm) after treating with <i>Trichoderma</i> @ 10 g/kg are with Captan/Thiram @ 3
				g/kg seeds. After sowing the seeds in the nursery, cover it with
				mixture of well rotten compost + friable soil + sand (2:1:1)
01	N/ / ·	D 11		and mulch with paddy straw / dried leaves.
Okra	Maturing	Pod borer	•	Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	•	Under excessive moisture, there is every possibility of
				rhizome rot in ginger and turmeric.
			•	To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with
				FYM/ neem cake.
			•	Mulching should be done with locally available mulch,
			•	Earthing up of exposed rhizome,
		HORT	<u>ICUL1</u>	TURAL CROPS
Kiwi	Vegetative	F ::D	•	Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.
Citrus	Fruit development	Fruit Drop Fruit Fly	•	Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to
	stage	Gummosis		10 pm during this month.
	5		•	Follow clean cultivation and bury fallen fruit in a pit and
				cover it with soil every day.
			•	There are reports of attack of Gummosis in orchards,
			•	Drenching with Ridimil @ 2.5 grams per litre of water is advised
			•	Fruit drop-In present weather conditions 3 sprays of
				Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval
				may be done,
			•	To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the
				stems of the plants up to a height of about 1 m from the
				ground.
Pineapple	Sowing		•	Clean the vicinity of plants by weeding and loosen up the soil.
			•	Remove sly and use it as a new planting material.
			•	Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos
				20EC@ 2ml/lt of water to protect against soil borne disease and insect.
Large Cardamom	Flowering stage	Chirkey Disease	•	Mulching with locally available materials like dry grass/paddy
	56	(fungal inection)		straw recommended
		& Chirles and	•	Remove diseased part & keep inflorescence clean.
		Chirke and	•	Uproot & burn virus infected plants
<u></u>				

_		F 1 / '	
		Foorkey (virus	
Ginger/Turmeric	Seedling	infection)	 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
			Honey Bees
Honey bees			Provide sugar syrup near the box
			Add insulation and ventilation systems
T 1	G4	D:	LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
• Domogod gr	oin (not fungus c	ontominated) to b	General be diverted for Poultry/livestock feeding
	_		the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever	
		and appearance	bedding (straw) to be provided to young animals,
		of mucous	• 1 st injection at 6 months of age and 2 nd injection at 12 months of
		membrane of the mouth and foot.)	ago rono woo of anniour vaccination and vot supervision against
		Swine Fever	Reduce concentrate diet up to 5%
			Provide adequate potable water
			In present weather conditions vaccinate against swine fever
			(Vaccines available in State Veterinary Depts),
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		 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed
			• Provide glucose/electral along with vitamin supplements (@5-
			6ml/100 birds) with adequate potable water
			Avoid overcrowding.
			Provide broad-spectrum antihelminthic drugs under vet
			supervision and recommended doses.Vaccination as per the schedule with proper consultation with vet.
			➤ Day old chick: HVT Marek disease vaccine, 4-7 days:
			F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days:
			F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox
			vaccine and 56-70 days: RD R-2B strain.
			Remove wet litter
Cattle	All stages	FMD	• <u>In present weather conditions, special care should be taken</u>
			against attack of maggots in the wounds of animals.
			Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised.
			Provide UMB/Molases if possible in the feed
			Provide 10-30 ml of vitamin B-Complex in feed
			• 1 st injection at 6-8 weeks of age, 2 nd injection after 6 months of
			1 st injection followed by annual vaccination under vet
			supervisionSeparate sick animals
			• The animal should be washed with lukewarm water added with
			little potash (KMnO ₄) or neem leaves
			• Long hair near the udder/stomach/back legs should be teamed short.
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. Proment enimals shows 7 months of prognency should be avaided.
	<u> </u>	<u> </u>	Pregnant animals above 7 months of pregnancy should be avoided.

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

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Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 18th to 20th October 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: 83/2017/Tue

Dated: 17th October, 2017



Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall = $2.2 \text{ mm } (\text{up to } 13^{\text{th}} \text{ Oct})$	Mostly cloudy with light/moderate rainfall on 21st & 22nd Oct.
	Daily maximum and minimum temperature for the following period
	is predicted to be 32°C and 22°C respectively. Expected morning
	and evening relative humidity will be 86-99% and 54-95%
	respectively. Wind direction is mainly ESE and E with speed range
	of 2-4 kmph.
Warning:	•

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

- In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, *Rabi* pulse, pea and oilseeds.
- Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Black Gram & Green Gram	Sowing		• Sowing can be done in rice fallow of <i>jhum</i> without delay
	g :		Avoid water logging maintaining proper drainage
Pea	Sowing		Treat pea with rhizobium@2gm/kg seed before sowing
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
Rice	Dough Grain filling stage	Gundhi bug	 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 Monitor crop against attack of gundhi bug, Weeding is advised to ward off the alternate host of gundhi bug Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit. Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper & leaf folder using sticker
			VEGETABLES
Potato	Field preparation/ sowing	Red Ants/ Cutworm	 Farmers are advised to prepare field for sowing of potato, Seed treatment-Cut pieces of potato should be dipped in Diethane M-45 @ 2 grams per litre of water for ½ hours before sowing, Red Ants: - Drenching with Chlorpyriphos @ 2 ml per litre of water, Normal weight of potato-25-30 grams Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to
Rabi vegetables	Nursery		 Plant In present weather conditions, nursery sowing of hybrid
			 tomato, cauliflower and cabbage may be done. The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds. After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves. Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Tomato	Fruiting		 Removing sideshoots is an important job which prevents the fruits being shaded by leaves. Provide shed to protect from excessive rainfall
Summer Vegetables	Multiple stages		 Mulching with locally available materials like dry grass/paddy straw recommended Use pheromone traps/light traps against brinjal shoot and fruit borer. New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	 Mulching with locally available materials like dry grass/paddy straw recommended Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers For management of soft rot in ginger: Need based

			drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g
		⊔∩рт	per lit of water. ICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	 Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.
Pineapple	Sowing		 Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect.
Guava	Fruit Development	Fruit fly	 Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Banana Large Cardamom	Fruiting/ Ripening Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	 Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects. Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
Orchards		miectioni	 Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
			Honey Bees
			 Box must be covered with straw/dry leaves to provide warmth
			LIVESTOCKS
			Precautionary Practices to be followed General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against
Poultry	All stages		 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet.

			Day old chick: HVT Marek disease vaccine, 4-7 days:
			1
			F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days:
			F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox
			vaccine and 56-70 days: RD R-2B strain.
			Remove wet litter
Cattle	All stages	FMD	• In present weather conditions, special care should be taken
			against attack of maggots in the wounds of animals.
			Application of turpentine oil in the wounds followed by
			application of antibiotics for five days is advised.
			Provide UMB/Molases if possible in the feed
			Provide 10-30 ml of vitamin B-Complex in feed
			• 1 st injection at 6-8 weeks of age, 2 nd injection after 6 months of
			1 st injection followed by annual vaccination under vet
			supervision
			Separate sick animals
			• The animal should be washed with lukewarm water added with
			little potash (KMnO ₄) or neem leaves
			• Long hair near the udder/stomach/back legs should be teamed
			short.
Fishery			Application of quick lime is highly recommended in order to
			rectify water pH.
			Application of fish feed (mustard oil cake) is essential for
201		77.00	achieving higher yield
Mithun		FMD	Polyvalent FMD vaccine with serotype O, A and Asia at 6 months
			of age and repeat after that 6 months interval by sub-cutaneous
			route.
			• Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scien	tists (ICAR) or	State Agril Staft	f or KVK staff for measures against adverse conditions or call

at 03795-226237/226247

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 18th to 20th October 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: 83/2017/Tue

Dated: 17th October, 2017



Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall = $0.0 \text{ mm } (\mathbf{up to 13}^{th} \mathbf{Oct})$	Mostly Sunny/Partly cloudy with possibility of light/moderate
	rainfall on 21st & 22nd Oct. Daily maximum and minimum
	temperature for the following period is predicted to be 25-26°C and
	14°C respectively. Expected morning and evening relative humidity
	will be 54-91% and 23-58% respectively. Wind direction is mainly
	SSE with speed range of 3-7 kmph.
Warning:	•

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 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

- In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, *Rabi* pulse, pea and oilseeds.
- Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
3237	is ange		FIELD CROPS
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	 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
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
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
Rabi vegetables	Nursery		• In present weather conditions, nursery sowing of hybrid
			 tomato, cauliflower and cabbage may be done. The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds. After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves. Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Okra	Maturing	Pod borer	 Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	 Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric. To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake. Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
			TICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	 Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground.
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.
Kiwi	Vegetative		 Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.
Banana	Bunching & planting		 Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. Remove the male flower in banana bunches to attain better finger/fruit size. Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.
Ginger/Turmeric	Seedling		 Proper drainage to be done and avoid water stagnation Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
			Honey Bees
Honey bees			 Box must be covered with straw/dry leaves to provide warmth Provide sugar syrup
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
0 0			General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever	
		and appearance of mucous membrane of the mouth and foot.) Swine Fever	bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of
D. It	A 11		(Vaccines available in State Veterinary Depts),
Poultry	All stages	EMD	 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter
Cattle	All stages	FMD	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
Fishery			 Application of quick lime is highly recommended in order to rectify water pH. Application of fish feed (mustard oil cake) is essential for

				achieving higher yield		
Mithun		FMD	•	Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.		
Contact Scient	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247					

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 18th to 20th October 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

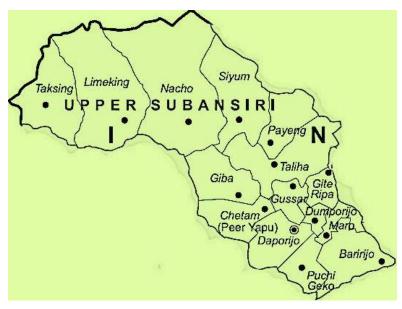


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Upper Subansiri

No: 83/2017/Tue

Dated: 17th October, 2017



Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Daporijo: 0.0 mm (up to 13 th Oct)	Sunny/cloudy with possibility of light/moderate rainfall on 21st
	& 22 nd Oct. Daily maximum and minimum temperature for the
	following period is predicted to be 25°C and 14°C respectively.
	Expected morning and evening relative humidity will be 72-98%
	and 29-67% respectively. Expected wind direction is mainly WNW
	with speed range of 2-7 kmph.
Warning	•

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

- In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, *Rabi* pulse, pea and oilseeds.
- Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
P	2008		FIELD CROPS
Maize	CRI or tasseling stage/ Harvesting Panicle initiation/ Dough Grain filling stage	Rat Gundhi bug/ leaf folder/ rice skipper	 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 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
			VEGETABLES
Rabi vegetables	Nursery		 In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done. The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds. After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves. Weeding of the standing crop may be done, Monitoring of standing crops against attack of insect pests and diseases.
Okra	Maturing	Pod borer	 Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	 Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric. To manage the disease, provide adequate drainage and apply Trichoderma harzianum @ 50 g/bed along with FYM/ neem cake. Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
		HORT	ICULTURAL CROPS
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	 Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground. 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.
Kiwi	Vegetative		 Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.

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
Banana	Bunching & planting		 Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. Remove the male flower in banana bunches to attain better finger/fruit size. Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.
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
Honor boss			Honey Bees
Honey bees			Provide sugar syrup near the boxAdd insulation and ventilation systems
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
)		General
	_		e diverted for Poultry/livestock feeding
		be ensured round	the clock and water troughs/feeders should be regularly cleaned,
Poultry	All stages		 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed
			 Provide glucose/electral along with vitamin supplements (@5-
			6ml/100 birds) with adequate potable water
			Avoid overcrowding.
			Provide broad-spectrum antihelminthic drugs under vet
			 supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.
			Remove wet litter
Fishery			 Application of quick lime is highly recommended in order to rectify water pH.
			 Application of fish feed (mustard oil cake) is essential for achieving higher yield
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	• In present weather conditions, special care should be taken
			 against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with
			<u> </u>

		•	Long hair near the udder/stomach/back legs should be teamed short.		
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. Programs animals above 7 months of programs should be avoided.		
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247					

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

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 18th to 20th October 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: 83/2017/Tue

Dated: 17th October, 2017



Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Rainfall = Bomdila: 0.0; Bhalukpong: 10.4	Partly/mostly cloudy with possibility of very light rainfall on 21st
mm (up to 13 th Oct)	and 22 nd October. Daily maximum and minimum temperature for
	the following period is predicted to be 25-26°C and 14°C
	respectively. Expected morning and evening relative humidity will
	be 64-97% and 32-87% respectively. Wind direction is mainly SSW
	& ENE with speed range of 3-7 kmph.
Warning:	•

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
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
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	 Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit. Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper & leaf folder using sticker
Groundnut	Pegging	Leaf Spot/tikka disease	 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.
Okra Rabi vegetables	Maturing Nursery	Pod borer	 VEGETABLES Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Kaul vegetaules	Nuisery		 In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done. The seeds should be sown on raised beds (15-20 cm) after treating seeds with Trichoderma @ 10 g/kg or with Captan/Thiram @ 2-3 g/kg seeds. After sowing the seeds in the nursery, cover it with mixture of well rotten compost + friable soil + sand (2:1:1) and mulch with paddy straw / dried leaves. 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 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	Fruit development stage	Fruit Drop Fruit Fly Gummosis	 Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground. 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
Kiwi	Vegetative		 20EC@ 2ml/lt of water to protect against soil borne disease and insect. Manuring with well decomposed FYM@15kg/plant followed
			by mulching with paddy straw.

Banana Orchards Apple	Bunching & planting Vegetative	Wooly aphids	 Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. Remove the male flower in banana bunches to attain better finger/fruit size. Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. 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 Swab the stem with mineral oil against wooly aphid.
			Honey Bees
Honey bees			Provide sugar syrup near the boxAdd insulation and ventilation systems
T	- Gt	D:	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	 bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD Reduce concentrate diet up to 5% Provide adequate potable water In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),
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 All stages	FMD	 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter In present weather conditions, special care should be taken
			 against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
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.
Contact Scientists (ICAR) or	O	Pregnant animals above 7 months of pregnancy should be avoided. KVK staff for measures against adverse conditions or call 5-226237/226247

Agrometeorological Field Unit ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 18th to 20th October 2017)



ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA





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

District: West Siang

No: 83/2017/Tue

Dated: 17th October, 2017



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

Weather summery of the previous week	Weather forecast valid up to 22 nd Oct 2017
Basar: Rainfall = 46.2 mm. T. Max: 29.5°C,	Sunny/Partly cloudy with possibility of very light rainfall on 21st
T. Min: 19.3°C, RH: 61-92%, Wind Speed:	& 22 nd Oct. Daily maximum and minimum temperature for the
3-7 kmph, Wind Direction: WSW & SE	following period is predicted to be 30-32°C and 20°C respectively.
	Expected morning and evening relative humidity will be 66-97%
	and 26-68% respectively. Wind direction is mainly WNW with
	speed range of 2-7 kmph.
Warning:	•

Weather Based Agro-meteorological Advisories Bulletin

- Disinfecting the animal/bird sheds with lime powder/ bleaching powder/ 4%NaOH at regular interval is
- 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



- In view of high moisture content in the soil because of high rainfall during the last two weeks, prepare field for sowing of winter maize, *Rabi* pulse, pea and oilseeds.
- Adapt soil moisture conservation techniques in the field to conserve the moisture of last rains.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
	T T		FIELD CROPS
Black Gram &	Sowing		• Sowing can be done in rice fallow of <i>jhum</i> without delay
Green Gram			Avoid water logging maintaining proper drainage
Pea	Sowing		 Treat pea with rhizobium@2gm/kg seed before sowing
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
Rice	Dough	Gundhi bug	 Use locally available traps to control rats menace Maintain at least 5 mm water level in the rice field where
Ricc	Grain filling	Gundin bug	crop is in grain filling stage or at tillering stage.
	stage		Alternate drying and wetting of field is highly desirable in
			WRC field
			 Monitor crop against attack of gundhi bug,
			Weeding is advised to ward off the alternate host of gundhi
			bug
			• Install local trap of dead frog/fermented fish etc against
			gundhi bug in rice or spray triazophos/chloripyriphos@1-
			2ml/lit.
			• Need based spray of Flubendiamide 3.5% + Hexaconazole
			5% @ 2ml/lit against rice skipper & leaf folder using
			sticker
Potato	Field	Red Ants/	VEGETABLES
Potato	preparation/	Cutworm	 Farmers are advised to prepare field for sowing of potato, Seed treatment-Cut pieces of potato should be dipped in
	sowing	Cutworm	Diethane M-45 @ 2 grams per litre of water for ½ hours
			before sowing,
			Red Ants: - Drenching with Chlorpyriphos @ 2 ml per
			litre of water,
			Normal weight of potato-25-30 grams Out 15 N 45 Page 20 N 20 Page 20 N 20 Page 20 N 20 Page 20 N 20 Page
			• Spacing:- 45 X 45 cm Row to Row, 20 X 20 cm Plant to Plant
Okra	Maturing	Pod borer	Harvesting and marketing of tender okra fruits,
	8		Collection and destruction of borer damaged pod,
Rabi vegetables	Nursery		In present weather conditions, nursery sowing of hybrid
			tomato, cauliflower and cabbage may be done.
			• The seeds should be sown on raised beds (15-20 cm) after
			treating seeds with <i>Trichoderma</i> @ 10 g/kg or with
			 <u>Captan/Thiram @ 2-3 g/kg seeds.</u> After sowing the seeds in the nursery, cover it with
			mixture of well rotten compost + friable soil + sand (2:1:1)
			and mulch with paddy straw / dried leaves.
			 Weeding of the standing crop may be done,
			Monitoring of standing crops against attack of insect pests
Cin con/tumo oni o	Vacatativa stage	Rhizome rot	and diseases.
Ginger/turmeric	Vegetative stage	Kilizoille rot	• <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric.</u>
			To manage the disease, provide adequate drainage and
			apply Trichoderma harzianum @ 50 g/bed along with
			FYM/ neem cake.
			Mulching should be done with locally available mulch,
Cra cra alaita	Harman'	Λ .1.+3 /	Earthing up of exposed rhizome, On the continue of Picceth and 20 FG @
Cucurbits (Bottle	Harvesting	Aphid/ Red pumpkin	• On clear/dry weather, Spraying of Dimethoate 30 EC @
gourd,Ridge		beetle/	3ml/litre of water is advised against aphids,On clear/dry weather, Spraying of Deltamethrin 4ml/10
gourd,		Cutworm	litre of water is advised for management of Red pumpkin
Pumpkin,			beetle grass,
Bitter gourd,			• Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per
Cucumber,			plant.
etc.)	<u> </u>		

HORTICULTURAL CROPS						
Citrus	Fruit development stage	Fruit Drop Fruit Fly Gummosis	 Create smoke in orchard with grass (wet) cow dung cakes and neem leaves in the late evening hours between 7 pm to 10 pm during this month. Follow clean cultivation and bury fallen fruit in a pit and cover it with soil every day. There are reports of attack of Gummosis in orchards, Drenching with Ridimil @ 2.5 grams per litre of water is advised Fruit drop-In present weather conditions 3 sprays of Alphamethrin 0.02 % or Malathion 0.5% at 15 days interval may be done, To avoid stem borer attacks in citrus plants, apply a paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1 m from the ground. 			
Pineapple	Sowing		 Clean the vicinity of plants by weeding and loosen up the soil. Remove sly and use it as a new planting material. Sucker dipping treatment with Bavistin @ 3g + Chlorpyriphos 20EC@ 2ml/lt of water to protect against soil borne disease and insect. 			
Guava	Fruit Development	Fruit fly	 Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects 			
Banana	Fruiting/ Ripening		Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.			
Kiwi	Vegetative		Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.			
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) & 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 			
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			
			Provide sugar syrup LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed			
General Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,						
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	 bedding (straw) to be provided to young animals, 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against 			
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		 Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter 			
Cattle	All stages	FMD	 In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. Provide UMB/Molases if possible in the feed Provide 10-30 ml of vitamin B-Complex in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves Long hair near the udder/stomach/back legs should be teamed short. 			
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. 			
Contact Scient	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247					