Agro-met Advisory Bulletin

(Period: 30th Sept to 3rd Oct 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA



(Integrated Agro-Meteorological Advisory Services)

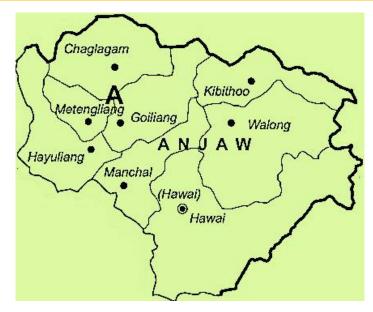


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Anjaw

<u>No: 78/2017/Fri</u>

Dated: 29th September, 2017



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

Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
No weather summary available	Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 21-22°C and 13-15°C respectively. Expected morning and evening relative humidity will be 79-85% and 58-65% respectively. Wind direction is mainly E & ESE at a speed range of 4-5 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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	 FIELD CROPS 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.
			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 <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.
Okra	Maturing	Pod borer	 Harvesting and marketing of tender okra fruits, Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	 <u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric. To manage the disease, provide adequate drainage and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/ neem cake.</u> Provide adequate drainage to prevent water stagnation and apply <i>Trichoderma harzianum</i> @50 g/bed along with FYM/neem cake. Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
		HORT	ICULTURAL CROPS
Kiwi	Fruiting		• Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.
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.
Pineapple	Fruiting		• Mulching with locally available materials like dry grass/paddy straw recommended
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.
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus	 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.

		infection)	 Uproot & burn virus infected plants / Spray Imidaclopric 17.8% SL @ 2ml/10 lit at 10-15 days interval.
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
	in (not fungus c		General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Fishery			 Application of quick lime is highly recommended in order to rectify water pH. Application of fish feed (mustard oil cake) is essential fo achieving higher yield
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	
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 ve 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 poy 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 versupervision 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 Contact Scientis		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.

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(Period: 30th Sept to 3rd Oct 2017)

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GRAMIN KRISHI MAUSAM SEWA





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

District: Changlang

<u>No: 78/2017/Fri</u>

Dated: 29th September, 2017



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

Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Rainfall = Changlang: 0.0 mm Miao: 26.6 mm (up to 2 6 th Sept)	Mostly cloudy with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 30-31°C and 23-24°C respectively. Expected morning and evening relative humidity will be 86-88% and 73-76% respectively. Wind direction is variable with speed range of 2-3 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

for harvested Ja Crop	Stage	Pest/Disease	Precautionary Practices to be followed
Стор	Buge	I CSU DISCUSC	FIELD CROPS
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.
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
Dahi yagatahlag	Numerowy	[VEGETABLES
Rabi vegetables Tomato	Fruiting		 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. Removing sideshoots is an important job which prevents
			the fruits being shaded by leaves.Provide shed to protect from excessive rainfall
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; 11itre per plant.
	1		TICULTURAL CROPS
Citrus	Fruit development stage	Citrus Canker	 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.
Guava	Fruit Development	Fruit fly	 Basin cleaning and manuring Install fruit fly pheromone traps for collection and destruction of the adult insects
Pineapple	Harvesting		• The fruit must be harvested with crown (whorl of leaves attached to the apical end of the fruit) to prolong the freshness of fruit and avoid microbial attack.

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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	(fungal inection) & Chirke and	 Mulching with locally available materials like dry grass/paddy straw recommended Remove diseased part & keep inflorescence clean. Uproot & burn virus infected plants
		Foorkey (virus infection)	r · · · · · · · · · · · · · · · · · · ·
Ginger/Turmeric	Seedling	intection	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 LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
LIVESTOCK	Stage	Disease	General
	-		e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Goat	All stages	be ensured round	 Deworming for gastrointestinal parasite
Poultry	All stages		Provide preventive dose of anti-coccidial drugs to poultry.
5	C		 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
			• 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	bedding (straw) to be provided to young animals,
		membrane of the	• 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.)	FMD
		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
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
			supervisionSeparate 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 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: - <u>IAAS.BASAR@gmail.com</u>, Phone Number: - 03795-226247/37, -96 (Fax)



Agro-met Advisory Bulletin

(Period: 30th Sept to 3rd Oct 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

<u>No: 78/2017/Fri</u>

Dated: 29th September, 2017



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

Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Rainfall = 21.0 mm (Anini) (up to 26^{th}	Mostly cloudy with possibility of light/moderate rainfall. Daily
Sept)	maximum and minimum temperature for the following period is predicted to be 20-22°C and 09-14°C respectively. Expected morning and evening relative humidity will be 84-90% and 57-78% respectively. Wind direction is mainly E with speed range of 5-6 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
- 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

	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
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
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
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.
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 <i>Trichoderma</i> <i>harzianum</i> @ 50 g/bed along with FYM/ neem cake. Provide adequate drainage to prevent water stagnation and apply <i>Trichoderma harzianum</i> @50 g/bed along with FYM/neem cake. Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
Citrus	Fruit	Citrus Canker	Undertake necessary tillage operation if there is no rain.
	development stage	Soot Grab	 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.
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
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
Apple	Vegetativo	Woolyaphida	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
			General
0 0			e diverted for Poultry/livestock feeding
	~~~~		the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever	1 2
		and appearance of mucous	• 1 st injection at 6 months of age and 2 nd injection at 12 months
		membrane of the	age followed by annual vaccination under vet supervision agair FMD
		mouth and foot.)	
		,	<ul> <li>Provide adequate potable water</li> </ul>
Poultry	All stages		<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</li> </ul>
2	C		• Proper ventilation of shed
			• Provide glucose/electral along with vitamin supplements (@
			6ml/100 birds) with adequate potable water
			Avoid overcrowding.
			• Provide broad-spectrum antihelminthic drugs under v
			supervision and recommended doses.
			• Vaccination as per the schedule with proper consultation with ver
			Day old chick: HVT Marek disease vaccine, 4-7 day End and the latent
			F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 day
			F/Lasota, 6-7 weeks: Chicken embryo adopted fowl p
			vaccine and 56-70 days: RD R-2B strain.
0.41	A 11 4	E) (D)	Remove wet litter
Cattle	All stages	FMD	• In present weather conditions, special care should be tak
			<u>against attack of maggots in the wounds of anima</u> Application of turpentine oil in the wounds followed
			application of antibiotics for five days is advised.
			<ul> <li>Provide UMB/Molases if possible in the feed</li> </ul>
			• 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
			1 st injection followed by annual vaccination under v
			supervision
			Separate sick animals
			• The animal should be washed with lukewarm water added with little nation (KMnO) on near leaves
			<ul> <li>little potash (KMnO₄) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be team</li> </ul>
			• Long hair near the udder/stomach/back legs should be team short.
Pigs	All stages	FMD (high fever	
6	6	and appearance	bedding (straw) to be provided to young animals,
		of mucous	• $1^{\text{st}}$ injection at 6 months of age and $2^{\text{nd}}$ injection at 12 months
		membrane of the	age followed by annual vaccination under vet supervision again
		mouth and foot.)	FMD
		Swine Fever	• Reduce concentrate diet up to 5%
			Provide adequate potable water
			• In present weather conditions vaccinate against swine fever (Vaccinate available in State Vatoringers Dente)
Fishery			<ul> <li>(Vaccines available in State Veterinary Depts),</li> <li>Application of quick lime is highly recommended in order</li> </ul>
1 1511CI y			• Application of quick time is highly recommended in order rectify water pH.
			• Application of fish feed (mustard oil cake) is essential f
NC41			achieving higher yield
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 mont
			of age and repeat after that 6 months interval by sub-cutaneo
			<ul><li>route.</li><li>Pregnant animals above 7 months of pregnancy should be avoide</li></ul>
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## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 2017)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

### **District: East Kameng**

<u>No: 78/2017/Fri</u>

Sawa Chayangtajo Klienewa Lada Barneng Barneng Barneng Seppa E A S T K A M E N C (Seppa) Fichukrong Pizirang Pakka Kessang Dissing-Passo

Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Rainfall =18.6 mm ( <b>up to 2</b> 6 th <b>Sept</b> )	Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is
	predicted to be 25-26°C and 22°C respectively. Expected morning
	and evening relative humidity will be 92-96% and 64-80% respectively. Expected wind direction is mainly SE & SSE with
	speed range of 3-4 kmph.
Warning:	•

#### Weather Based Agro-meteorological Advisories Bulletin

#### **General Recommendations**

- 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

Dated: 29th September, 2017

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul> <li>On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>Do not disturb the soil structure by spading/hoeing in the field.</li> <li>Hand weeding with care is recommended.</li> </ul>
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
Rabi vegetables	Nursery		<ul> <li>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</li> <li>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.</li> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diagonal</li> </ul>
		UOD	and diseases.
Citrus	Fruit development stage	Citrus Canker Soot Grab	<ul> <li>Undertake necessary tillage operation if there is no rain.</li> <li>Remove weeds from the tree basin and prepare ring around the tree.</li> <li>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</li> <li>Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> <li>Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab.</li> </ul>
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Remove diseased part &amp; keep inflorescence clean.</li> <li>Uproot &amp; burn virus infected plants</li> </ul>
Pineapple	Active vegetative		<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Remove excess suckers to increase fruit size and improve quality.</li> </ul>
Banana	Bunching & planting		<ul> <li>Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.</li> <li>Remove the male flower in banana bunches to attain better finger/fruit size.</li> <li>Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy</li> </ul>

			weight or storm.
Ginger/Turmeric	Seedling		<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Proper drainage to be done and avoid water stagnation</li> <li>Earthing up of ginger/turmeric along with basal application of required fertilizer should be done</li> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low</li> </ul>
			land/plain areas to avoid water stagnation in fruit orchards
Toko palm	Nursery		Agroforestry Filling of nursery polybags for raising of takopalm seedlings
10110 p.	1.01001		- ming of manaery polyedge for functing of europaint secondage
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
	• ( ) •		General
	-		e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <li>Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals,</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD</li> <li>Reduce concentrate diet up to 5%</li> <li>Provide adequate potable water</li> <li>In present weather conditions vaccinate against swine fever</li> </ul>
Fishery			<ul> <li>(Vaccines available in State Veterinary Depts),</li> <li>Application of quick lime is highly recommended in order to rectify water pH.</li> <li>Application of fish feed (mustard oil cake) is essential for achieving higher yield</li> </ul>
Poultry	All stages		<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</li> <li>Proper ventilation of shed</li> <li>Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>&gt; 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.</li> <li>Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Mithun		FMD	<ul> <li>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.</li> </ul>

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

## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 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**

Dated: 29th September, 2017



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

Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Rainfall: 85.6 mm; T. Max: 34.0°C; T. Min:	Mostly cloudy with possibility of very light/moderate rainfall.
23.0°C ; RH: 76-100% (up to 26 th Sept)	Daily maximum and minimum temperature for the following period
	is predicted to be 29-32°C and 22-24°C respectively. Expected
	morning and evening relative humidity will be 85-93% and 59-82%
	respectively. Expected wind direction is mainly W with speed range
	of 3-4 kmph.
Warning:	•

#### Weather Based Agro-meteorological Advisories Bulletin

#### **General Recommendations**

- 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

No: 78/2017/Fri

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Dough Grain filling stage	Gundhi bug	<ul> <li>Monitor crop against attack of gundhi bug,</li> <li>Weeding is advised to ward off the alternate host of gundhi bug</li> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
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 Spot/tikka disease	<ul> <li>On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>Do not disturb the soil structure by spading/hoeing in the field.</li> <li>Hand weeding with care is recommended.</li> </ul>
-		-	VEGETABLES
Rabi vegetables	Nursery		<ul> <li>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</li> <li>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.</li> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul> <li>On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids,</li> <li>On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass,</li> <li>Drench the base with chlorpyrifos 20EC @ 2ml/litre; 11itre per plant.</li> </ul>
Tomato	Fruiting		<ul> <li>Removing sideshoots is an important job which prevents the fruits being shaded by leaves.</li> <li>As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.</li> </ul>
Ginger/turmeric	Vegetative stage	Soft Rot	<ul> <li>Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers</li> <li>For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.</li> </ul>
		HORT	TICULTURAL CROPS
Citrus	Fruit development stage	Citrus Canker Soot Grab	<ul> <li>Undertake necessary tillage operation if there is no rain.</li> <li>Remove weeds from the tree basin and prepare ring around the tree.</li> <li>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</li> </ul>

			<ul> <li>Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> <li>Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab.</li> </ul>
Guava	Fruit Development	Fruit fly	<ul> <li>Basin cleaning and manuring</li> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects</li> </ul>
Banana	Fruiting/ Ripening		• Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.
Pineapple	Harvesting		• The fruit must be harvested with crown (whorl of leaves attached to the apical end of the fruit) to prolong the freshness of fruit and avoid microbial attack.
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Remove diseased part &amp; keep inflorescence clean.</li> <li>Uproot &amp; burn virus infected plants.</li> </ul>
Ginger/Turmeric	Seedling		<ul> <li>Proper drainage to be done and avoid water stagnation</li> <li>Earthing up of ginger/turmeric along with basal application of required fertilizer should be done</li> </ul>
			Honey Bees
Honey bees			• On prolong rain, provide sugar syrup
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
			General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Goat	All stages		<ul> <li>Deworming for gastrointestinal parasite</li> </ul>
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	<ul> <li>bedding (straw) to be provided to young animals,</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against</li> </ul>
Poultry	All stages		<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</li> <li>Proper ventilation of shed</li> <li>Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>&gt; 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.</li> <li>Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6</li> </ul>

		<ul> <li>months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Mithun	FMD	<ul> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
Contact Scientists		or KVK staff for measures against adverse conditions or call 795-226237/226247

## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 2017)



ग्रामीण कृषि मौसम सेवा







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

### **District: Kurung Kumey**

<u>No: 78/2017/Fri</u>

Dated: 29th September, 2017



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

Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Past weather summary not available	Mostly cloudy with possibility of very light/moderate rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 20-22°C and 13-14°C respectively. Expected
	morning and evening relative humidity will be 95-96% and 71-83%
	respectively. Wind direction is mainly WSW & W with wind speed
	range of 2-3 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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/	<ul> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
			VEGETABLES
Cauliflower /Cabbage	Nursery Preparation	Cut worm	<ul> <li>Maintain proper moisture level in the nursery.</li> <li>Nursery preparation for early cruciferous crops may be done in raised bed (Preferable in shaded area),</li> <li>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</li> </ul>
Rabi vegetables	Nursery		<ul> <li>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.</li> </ul>
Okra	Maturing	Pod borer	<ul> <li>Harvesting and marketing of tender okra fruits,</li> <li>Collection and destruction of borer damaged pod,</li> </ul>
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul> <li>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric. To manage the disease, provide adequate drainage and apply <i>Trichoderma</i> harzianum @ 50 g/bed along with FYM/ neem cake.</li> <li>Provide adequate drainage to prevent water stagnation and apply <i>Trichoderma harzianum</i> @50 g/bed along with FYM/neem cake.</li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
		HORT	ICULTURAL CROPS
Citrus Kiwi	Fruit development stage Vegetative	Citrus Canker Soot Grab	<ul> <li>Undertake necessary tillage operation if there is no rain.</li> <li>Remove weeds from the tree basin and prepare ring around the tree.</li> <li>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</li> <li>Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> <li>Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab.</li> <li>Manuring with well decomposed FYM@15kg/plant followed</li> </ul>
	<u> </u>		by mulching with paddy straw to protect from heavy rainfall
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Remove diseased part &amp; keep inflorescence clean.</li> <li>Uproot &amp; burn virus infected plants</li> </ul>
Pineapple	Active vegetative		• Remove excess suckers to increase fruit size and improve quality.
Banana	Bunching & planting		<ul> <li>Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.</li> <li>Remove the male flower in banana bunches to attain better finger/fruit size.</li> <li>Remove excess sucker from Banana in mother plant and</li> </ul>

nger/Turmeric	Vegetative		<ul> <li>with narrow leaves should be selected for planting at 31 x 3m spacing.</li> <li>Proper drainage to be done and avoid water stagnation</li> </ul>
	-		• Earthing up of ginger/turmeric along with basal application required fertilizer should be done
l I			Honey Bees
			• Box must be covered with straw/dry leaves to provide warmth
			LIVESTOCKS
			General
0 0			e diverted for Poultry/livestock feeding
	-		the clock and water troughs/feeders should be regularly cleaned,
Livestock	Stage	Disease	Precautionary Practices to be followed
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the	<ul> <li>Animals to be housed in dry place or kept in alleviated area and bedding (straw) to be provided to young animals,</li> <li>1st injection at 6 months of age and 2nd injection at 12 months age followed by annual vaccination under vet supervision again</li> </ul>
		mouth and foot.)	FMD
		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 rectify water pH.
			• Application of fish feed (mustard oil cake) is essential achieving higher yield
Poultry	All stages		Proper ventilation of shed
, and y	and Brit		<ul> <li>Provide glucose/electral along with vitamin supplements (6 6ml/100 birds) with adequate potable water</li> </ul>
			• Follow 'All in All out' system of rearing and do not rear birds different age groups together.
			<ul> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under</li> </ul>
			<ul> <li>supervision and recommended doses.</li> <li>Provide adequate clean drinking water+electrolyte and mu vitamins</li> </ul>
			<ul> <li>Vaccination as per the schedule with proper consultation with very Day old chick: HVT Marek disease vaccine, 4-7 da F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 da</li> </ul>
			F/Lasota, 6-7 weeks: Chicken embryo adopted fowl p vaccine and 56-70 days: RD R-2B strain.
C-41-	A 11	EMD	Remove wet litter
Cattle	All stages	FMD	<ul> <li>In present weather conditions, special care should be tall against attack of maggots in the wounds of animal Application of turpentine oil in the wounds followed application of antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> </ul>
			<ul> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months 1st injection followed by annual vaccination under</li> </ul>
			<ul> <li>Separate sick animals</li> </ul>
			• The animal should be washed with lukewarm water added w little potash (KMnO ₄ ) or neem leaves
			• Long hair near the udder/stomach/back legs should be team short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 more of age and repeat after that 6 months interval by sub-cutane route.
			<ul> <li>Pregnant animals above 7 months of pregnancy should be avoid or KVK staff for measures against adverse conditions or ca</li> </ul>

## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 2017)



ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

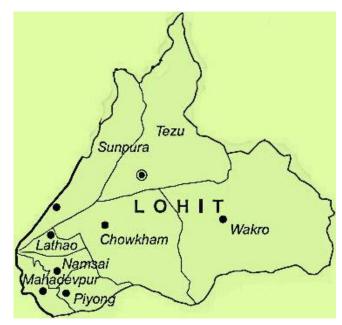


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

### **District:** Lohit

<u>No: 78/2017/Fri</u>

Dated: 29th September, 2017



Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Rainfall = 23.0 mm	Mostly cloudy with possibility of moderate rainfall. Daily
(up to 26 th Sept)	maximum and minimum temperature for the following period is
	predicted to be 30-31°C and 23-24°C respectively. Expected morning
	and evening relative humidity will be 82-86% and 64-69%
	respectively. Wind direction is mainly E with speed range of 3-4
	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.

Сгор	Stage	<b>Pest/Disease</b>	Precautionary Practices to be followed
			FIELD CROPS
Rice	Dough Grain filling stage	Gundhi bug	<ul> <li>Monitor crop against attack of gundhi bug,</li> <li>Weeding is advised to ward off the alternate host of gundhi bug</li> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
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
Rabi vegetables Cucurbits (Bottle gourd,Ridge	Nursery	Aphid/ Red pumpkin beetle/	<ul> <li>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</li> <li>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.</li> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> <li>On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids,</li> <li>On clear/dry weather, Spraying of Deltamethrin 4ml/10</li> </ul>
gourd, Pumpkin, Bitter gourd, Cucumber, etc.)		Cutworm	<ul> <li>litre of water is advised for management of Red pumpkin beetle grass,</li> <li>Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.</li> </ul>
Tomato	Fruiting		<ul> <li>Removing sideshoots is an important job which prevents the fruits being shaded by leaves.</li> <li>Provide shed to protect from excessive rainfall</li> </ul>
	L.	HORT	ICULTURAL CROPS
Citrus	Fruit development stage	Citrus Canker Soot Grab	<ul> <li>Undertake necessary tillage operation if there is no rain.</li> <li>Remove weeds from the tree basin and prepare ring around the tree.</li> <li>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</li> <li>Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> <li>Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab.</li> </ul>
Guava	Fruit Development	Fruit fly	<ul> <li>Basin cleaning and manuring</li> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects</li> </ul>
Banana	Fruiting/ Ripening		• Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.
Pineapple	Harvesting		• The fruit must be harvested with crown (whorl of leaves attached to the apical end of the fruit) to prolong the

			freshness of fruit and avoid microbial attack.
inger/Turmeric	Active vegetative		Mulching with locally available materials like dry grass/paddy straw recommended
			Honey Bees
loney bees			• Provide sugar syrup near the box
			Add insulation and ventilation systems
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
0 0			General e diverted for Poultry/livestock feeding
Goat	All stages	be ensured round	<ul> <li>the clock and water troughs/feeders should be regularly cleaned,</li> <li>Deworming for gastrointestinal parasite</li> </ul>
Pigs	All stages	FMD (high fever	
1 150	i ili stages	and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <li>bedding (straw) to be provided to young animals,</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against</li> </ul>
Fishery			<ul> <li>Application of quick lime is highly recommended in order t rectify water pH.</li> <li>Application of fish feed (mustard oil cake) is essential for achieving higher yield</li> </ul>
Poultry	All stages		<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</li> <li>Proper ventilation of shed</li> <li>Provide glucose/electral along with vitamin supplements (@5 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under versupervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>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 povaccine and 56-70 days: RD R-2B strain.</li> <li>Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water addee with little potash (KMnO₄) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed</li> </ul>

## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 2017)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

### **District: Lower Dibang Valley**

<u>No: 78/2017/Fri</u>

Dated: 29th September, 2017



Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Rainfall = 0.3 mm (Roing) (up to $26^{th}$	Mostly cloudy with possibility of very light/moderate rainfall.
Sept)	Daily maximum and minimum temperature for the following period
	is predicted to be 25-26°C and 22°C respectively. Expected morning
	and evening relative humidity will be 78-84% and 53-69%
	respectively. Wind direction is mainly E with speed range of 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
- 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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Dough Grain filling stage	Gundhi bug	<ul> <li>Monitor crop against attack of gundhi bug,</li> <li>Weeding is advised to ward off the alternate host of gundhi bug</li> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul> <li>On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>Do not disturb the soil structure by spading/hoeing in the field.</li> <li>Hand weeding with care is recommended.</li> </ul>
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
Rabi vegetables Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Nursery Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul> <li>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</li> <li>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.</li> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> <li>On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids,</li> <li>On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass,</li> <li>Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.</li> </ul>
ete.)		HORT	ICULTURAL CROPS
Citrus	Fruit development stage	Citrus Canker Soot Grab	<ul> <li>Undertake necessary tillage operation if there is no rain.</li> <li>Remove weeds from the tree basin and prepare ring around the tree.</li> <li>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</li> <li>Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> <li>Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab.</li> </ul>
Guava	Fruit Development	Fruit fly	<ul> <li>Basin cleaning and manuring</li> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects</li> </ul>
Banana	Fruiting/ Ripening		• Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.

Pineapple	Harvesting		• The fruit must be harvested with crown (whorl of leaves
			attached to the apical end of the fruit) to prolong the freshness of fruit and avoid microbial attack.
Large Cardamom	Flowering stage	Chirkey Disease (fungal inection)	<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> </ul>
		&	<ul> <li>Remove diseased part &amp; keep inflorescence clean.</li> </ul>
		Chirke and	<ul> <li>Uproot &amp; burn virus infected plants</li> </ul>
		Foorkey (virus infection)	
Orchards		lineetion)	• 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
<b>T •</b> • • •	Ct.	Di	LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
0 0			General e diverted for Poultry/livestock feeding
Clean drink     Goat		be ensured round	the clock and water troughs/feeders should be regularly cleaned,
	All stages		Deworming for gastrointestinal parasite
Poultry	All stages		<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</li> <li>Proper ventilation of shed</li> </ul>
			<ul> <li>Provide glucose/electral along with vitamin supplements (@5-</li> </ul>
			6ml/100 birds) with adequate potable water
			Avoid overcrowding.
			• Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.
			<ul> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 4-7 days:</li> </ul>
			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	• Keep the houses dry and clean.
		and appearance of mucous	• 1 st injection at 6 months of age and 2 nd injection at 12 months of age followed by annual vaccination under vet supervision
		membrane of the mouth and foot.)	against FMD
		mouth and root.)	<ul><li>Reduce concentrate diet up to 5%</li><li>Provide adequate potable water</li></ul>
Fishery			• Application of quick lime is highly recommended in order to
			rectify water pH.
			<ul> <li>Application of fish feed (mustard oil cake) is essential for achieving higher yield</li> </ul>
Cattle	All stages	FMD	In present weather conditions, special care should be taken
	C		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
			<ul> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of</li> </ul>
			1 st injection followed by annual vaccination under vet supervision
			<ul><li>Separate sick animals</li><li>The animal should be washed with lukewarm water added</li></ul>
			with little potash (KMnO ₄ ) or neem leaves
			• Long hair near the udder/stomach/back legs should be teamed short.
Contact Scien	tists (ICAR) or l	State Agril Staff	or KVK staff for measures against adverse conditions or call

Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department

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



## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 2017)



ग्रामीण कृषि मौसम सेवा







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

### **District: Lower Subansiri**

No: 78/2017/Fri

Dated: 29th September, 2017



Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Rainfall = NA	Mostly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 25-26°C and 22°C respectively. Expected morning
	and evening relative humidity will be 96-97% and 72-87%
	respectively. Wind direction is mainly WSW & W with speed range
	of 2-3 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

Сгор	Stage	<b>Pest/Disease</b>	Precautionary Practices to be followed
			FIELD CROPS
Rice	Dough Grain filling stage	Gundhi bug	<ul> <li>Monitor crop against attack of gundhi bug,</li> <li>Weeding is advised to ward off the alternate host of gundhi bug</li> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul> <li>On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>Do not disturb the soil structure by spading/hoeing in the field.</li> <li>Hand weeding with care is recommended.</li> </ul>
Pulses	Flowering	Blister beetle	<ul> <li>Application of fertilizers and spray operations to be delayed/avoided</li> <li>Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest</li> </ul>
			VEGETABLES
Okra	Maturing	Pod borer	<ul><li>Harvesting and marketing of tender okra fruits,</li><li>Collection and destruction of borer damaged pod,</li></ul>
Rabi vegetables	Nursery		<ul> <li>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</li> <li>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.</li> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul> <li><u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric. To manage the disease, provide adequate drainage and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/ neem cake.</u></li> <li>Provide adequate drainage to prevent water stagnation and apply <i>Trichoderma harzianum</i> @50 g/bed along with FYM/neem cake.</li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
			ICULTURAL CROPS
Citrus	Fruit development stage	Citrus Canker Soot Grab	<ul> <li>Undertake necessary tillage operation if there is no rain.</li> <li>Remove weeds from the tree basin and prepare ring around the tree.</li> <li>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</li> <li>Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> <li>Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab.</li> </ul>

Guava			
•	Fruit	Fruit fly	Basin cleaning and manuring
	Development		• Install fruit fly pheromone traps for collection and destruction of the adult insects
Banana	Fruiting/		Cover bunches with banana bunch covers or sacks or
Dununu	Ripening		locally available materials to protect against sunscald,
	Inponing		birds and insects.
Kiwi	Vegetative		Manuring with well decomposed FYM@15kg/plant followed
IXI WI	vegetative		by mulching with paddy straw.
Pineapple	Fruiting/Harves		• The fruit must be harvested with crown (whorl of leaves
1 meappie	ting		attached to the apical end of the fruit) to prolong the
	ung		freshness of fruit and avoid microbial attack.
Ginger/Turmeric	Seedling		
Olliger/Turnerie	Securing		<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> </ul>
			<ul> <li>Proper drainage to be done and avoid water stagnation</li> </ul>
			• • • • • • • • • • • • • • • • • • •
Large Cardamom	Flowering stage	Chirkey Disease	• Mulching with locally available materials like dry grass/paddy
8	66	(fungal inection)	straw recommended
		&	
		Chirke and	<ul> <li>Remove diseased part &amp; keep inflorescence clean</li> <li>Uproot &amp; burn virus infected plants</li> </ul>
		Foorkey (virus	• Oproot & 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 lond/plain arrays to quoid water stagnation in fruit orghands
			land/plain areas to avoid water stagnation in fruit orchards Agroforestry
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
			Honey Bees
Honey bees			• Box must be covered with straw/dry leaves to provide
			warmth
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
			Precautionary Practices to be followed General
• Damaged gr	rain (not fungus co	ontaminated) to b	Precautionary Practices to be followed General be diverted for Poultry/livestock feeding
<ul><li>Damaged gr</li><li>Clean drink</li></ul>	rain (not fungus co ing water should l	ontaminated) to b be ensured round	Precautionary Practices to be followed General be diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
• Damaged gr	rain (not fungus co	ontaminated) to b be ensured round FMD (high fever	Precautionary Practices to be followed         General         e 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
<ul><li>Damaged gr</li><li>Clean drinki</li></ul>	rain (not fungus co ing water should l	ontaminated) to b be ensured round FMD (high fever and appearance	Precautionary Practices to be followed         General         be 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,
<ul><li>Damaged gr</li><li>Clean drinki</li></ul>	rain (not fungus co ing water should l	ontaminated) to b be ensured round FMD (high fever	Precautionary Practices to be followed         General         e 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,         • 1 st injection at 6 months of age and 2 nd injection at 12 months of
<ul><li>Damaged gr</li><li>Clean drinki</li></ul>	rain (not fungus co ing water should l	ontaminated) to b be ensured round FMD (high fever and appearance of mucous	Precautionary Practices to be followed         General         e 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,         • 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
<ul><li>Damaged gr</li><li>Clean drinki</li></ul>	rain (not fungus co ing water should l	ontaminated) to b be ensured round FMD (high fever and appearance of mucous membrane of the	Precautionary Practices to be followed         General         e 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,         • 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
<ul><li>Damaged gr</li><li>Clean drinki</li></ul>	rain (not fungus co ing water should l	ontaminated) to b be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Precautionary Practices to be followed         General         e 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,         • 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         • Reduce concentrate diet up to 5%
<ul><li>Damaged gr</li><li>Clean drinki</li></ul>	rain (not fungus co ing water should l	ontaminated) to b be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Precautionary Practices to be followed         General         e 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,         • 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         • Reduce concentrate diet up to 5%         • Provide adequate potable water
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<ul> <li>Damaged gr</li> <li>Clean drink</li> <li>Pigs</li> </ul>	ain (not fungus co ing water should l All stages	ontaminated) to b be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Precautionary Practices to be followed         General         e 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,         • 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         • 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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<ul> <li>Damaged gr</li> <li>Clean drink</li> <li>Pigs</li> </ul>	ain (not fungus co ing water should l All stages	ontaminated) to b be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	Precautionary Practices to be followed         General         General         te 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,         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         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.         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.
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		<ul> <li>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.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Mithun	FMD	<ul> <li>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.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
Contact Scientists (I	ý U	f or KVK staff for measures against adverse conditions or call 3795-226237/226247

## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 2017)



ग्रामीण कृषि मौसम सेवा





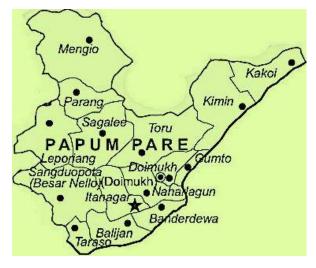


#### AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

### **District: Papum Pare**

#### <u>No: 78/2017/Fri</u>

Dated: 29th September, 2017



Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Rainfall: 50.4 mm; T. Max: 34.0°C; T. Min:	Mostly cloudy with possibility of very light/moderate rainfall.
23.0°C ; RH: 77-97% ( <b>up to 2</b> 6 th <b>Sept</b> )	Daily maximum and minimum temperature for the following period
	is predicted to be 28-32°C and 22-23°C respectively. Expected
	morning and evening relative humidity will be 89-93% and 64-79%
	respectively. Expected wind direction is variable 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
- 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

Сгор	Stage	<b>Pest/Disease</b>	Precautionary Practices to be followed
			FIELD CROPS
Rice	Dough Grain filling stage	Gundhi bug	<ul> <li>Monitor crop against attack of gundhi bug,</li> <li>Weeding is advised to ward off the alternate host of gundhi bug</li> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
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
Maize	Fruiting	Grasshopper	• Grasshopper infestation: Bund racking followed by
			incorporation of Carbofuron 3G
Rabi vegetables	Nursery		<ul> <li>VEGETABLES         <ul> <li>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> <li>On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids,</li> <li>On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass,</li> <li>Drench the base with chlorpyrifos 20EC @ 2ml/litre; 1litre per plant.</li> </ul>
Tomato	Fruiting		<ul> <li>Removing sideshoots is an important job which prevents the fruits being shaded by leaves.</li> <li>Provide shed to protect from excessive rainfall</li> </ul>
Summer Vegetables	Multiple stages		<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Use pheromone traps/light traps against brinjal shoot and fruit borer.</li> <li>New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.</li> </ul>
Ginger/turmeric	Vegetative stage	Soft Rot	<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers</li> <li>For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.</li> </ul>
		HORT	ICULTURAL CROPS

	Fruit	Citrus Canker	• I'm doutelre neargeanne fille an anna finn 'f d
Citrus	development stage	Soot Grab	<ul> <li>Undertake necessary tillage operation if there is no rain.</li> <li>Remove weeds from the tree basin and prepare ring around the tree.</li> </ul>
	stuge		• 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
			<ul> <li>Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> </ul>
			<ul> <li>Incorporate Clothianidin 50 WDG @ 4gm/plant in base</li> </ul>
			region of the plant against soot grab.
Guava	Fruit	Fruit fly	Basin cleaning and manuring
	Development		• Install fruit fly pheromone traps for collection and destruction
D' 1			of the adult insects
Pineapple	Fruiting/Harves		• The fruit must be harvested with crown (whorl of leaves attached to the gridel and of the fruit) to prolong the
	ting		attached to the apical end of the fruit) to prolong the freshness of fruit and avoid microbial attack.
Banana	Fruiting/		<ul> <li>Cover bunches with banana bunch covers or sacks or</li> </ul>
Dununu	Ripening		locally available materials to protect against sunscald,
	1 0		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
			<ul> <li>Earthing up of ginger/turmeric along with basal application of required fertilizer should be done</li> </ul>
Large Cardamom	Flowering stage	Chirkey Disease	<ul> <li>Mulching with locally available materials like dry grass/paddy</li> </ul>
C	0 0	(fungal inection)	straw recommended
		&	• 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 Honey Bees
Honey bees			land/plain areas to avoid water stagnation in fruit orchards         Honey Bees         • Box must be covered with straw/dry leaves to provide
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Fishery			<ul> <li>F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.</li> <li>Remove wet litter</li> <li>Application of quick lime is highly recommended in order to rectify water pH.</li> <li>Application of fish feed (mustard oil cake) is essential for achieving higher yield</li> </ul>
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Mithun		FMD	<ul> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
Contact Scier	ntists (ICAR) or St		f or KVK staff for measures against adverse conditions or call 3795-226237/226247

## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 2017)



ग्रामीण कृषि मौसम सेवा







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

## **District:** Tawang

No: 78/2017/Fri

Dated: 29th September, 2017



Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Rainfall = $30.2 \text{ mm}$ (up to $26^{\text{th}}$ Sept)	Mostly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 18-19°C and 08-12°C respectively. Expected
	morning and evening relative humidity will be 89-93% and 62-76%
	respectively. Wind direction is mainly ESE & SE with probable
	speed range of 2-6 kmph.
Warning:	•

## Weather Based Agro-meteorological Advisories Bulletin

#### **General Recommendations**

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

Сгор	Stage	Pest/Disease		Precautionary Practices to be followed
	Diago		FIFLD	CROPS
Rice	Panicle initiation/ Dough	Gundhi bug/ leaf folder/ rice	•	Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-
	Grain filling stage	skipper	•	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
			<b>VEGE</b>	FABLES
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
D 11	N			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,
oniu	initiations	10000000	•	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 <i>Trichoderma</i>
			•	harzianum @ 50 g/bed along with FYM/ neem cake. Provide adequate drainage to prevent water stagnation and
				apply <i>Trichoderma harzianum</i> @50 g/bed along with FYM/neem cake.
			•	Mulching should be done with locally available mulch,
			•	Earthing up of exposed rhizome,
			ICULI	URAL CROPS
Citrus	Fruit development	Citrus Canker	•	Undertake necessary tillage operation if there is no rain. Remove weeds from the tree basin and prepare ring around the
	stage		•	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.
Kiwi	Vegetative		•	Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.
Large Cardamom	Flowering stage	Chirkey Disease	•	Mulching with locally available materials like dry grass/paddy
		(fungal inection) &	•	straw recommended Remove diseased part & keep inflorescence clean.
		Chirke and Foorkey (virus	•	Uproot & burn virus infected plants
Cinger/T-	C 11:	infection)		Descendaria and to be descended in the second
Ginger/Turmeric	Seedling		•	Proper drainage to be done and avoid water stagnation Earthing up of ginger/turmeric along with basal application of required fortilizer should be done
Orchards			•	required fertilizer should be done 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
			Hone	land/plain areas to avoid water stagnation in fruit orchards <b>y Bees</b>
Honey bees				Provide sugar syrup near the box
			•	Add insulation and ventilation systems

<b>T</b> • • • •	<u></u>	<b>D</b> !	LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
0 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	<ul> <li>Animals to be housed in dry place or kept in alleviated area and c bedding (straw) to be provided to young animals,</li> <li>1st injection at 6 months of age and 2nd injection at 12 months age followed by annual vaccination under vet supervision again FMD</li> <li>Reduce concentrate diet up to 5%</li> <li>Provide adequate potable water</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</li> </ul>
Fishery			<ul> <li>Application of quick lime is highly recommended in order rectify water pH.</li> <li>Application of fish feed (mustard oil cake) is essential fachieving higher yield</li> </ul>
Poultry	All stages		<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</li> <li>Proper ventilation of shed</li> <li>Provide glucose/electral along with vitamin supplements (@ 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under version and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with ver &gt; Day old chick: HVT Marek disease vaccine, 4-7 day F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 day F/Lasota, 6-7 weeks: Chicken embryo adopted fowl provaccine and 56-70 days: RD R-2B strain.</li> <li>Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul> <li>In present weather conditions, special care should be tak against attack of maggots in the wounds of anima Application of turpentine oil in the wounds followed application of antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months 1st injection followed by annual vaccination under v supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added w little potash (KMnO₄) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be team short.</li> </ul>
Mithun		FMD	<ul> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 montor of age and repeat after that 6 months interval by sub-cutaneor route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided</li> </ul>



## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 2017)



ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA



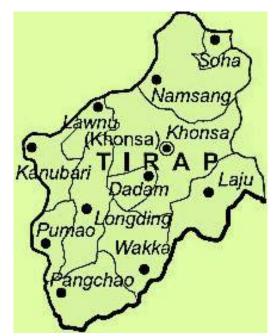


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

## **District:** Tirap

<u>No: 78/2017/Fri</u>

Dated: 29th September, 2017



Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
$Rainfall = 44.8 mm (up to 26^{th} Sept)$	Mostly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 28-32°C and 22-23 respectively. Expected morning
	and evening relative humidity will be 95-98% and 83-93%
	respectively. Wind direction is mainly S with speed range of 2
	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

It is advised that farmers may use zero tillage technology in harvested paddy fields in upland/Jhum for sowing of Pea/maize. In this method without ploughing, sowing of pea may be done to use moisture of rice field and straw of rice as organic manure. Taking into account the rainfall recorded during last week, this technology is very suitable for harvested *Jhum* rice field.

Сгор	Stage	<b>Pest/Disease</b>	Precautionary Practices to be followed
			FIELD CROPS
Rice (WRC) Early sown crop	Booting & grain filling	Gundhi bug	<ul> <li>On clear/dry weather, dust with Malathion 5D @ 20kg/ha. Repeat weekly,</li> <li>Properly maintain the water level in the field,</li> </ul>
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
Rice	Dough Grain filling stage	Gundhi bug	<ul> <li>Monitor crop against attack of gundhi bug,</li> <li>Weeding is advised to ward off the alternate host of gundhi bug</li> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
			VEGETABLES
Rabi vegetables	Nursery		<ul> <li>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</li> <li>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.</li> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Tomato	Fruiting		• Removing sideshoots is an important job which prevents
			<ul><li>the fruits being shaded by leaves.</li><li>Provide shed to protect from excessive rainfall</li></ul>
Summer Vegetables	Multiple stages		<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Use pheromone traps/light traps against brinjal shoot and fruit borer.</li> <li>New nursery should be raised inside well covered structure</li> </ul>
			with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers</li> <li>For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.</li> </ul>
		HORT	TICULTURAL CROPS
Citrus	Fruit development stage	Citrus Canker Soot Grab	<ul> <li>Undertake necessary tillage operation if there is no rain.</li> <li>Remove weeds from the tree basin and prepare ring around the tree.</li> <li>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</li> <li>Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> <li>Incorporate Clothianidin 50 WDG @ 4gm/plant in base</li> </ul>

			region of the plant against soot grab.
Guava	Fruit Development	Fruit fly	<ul> <li>Basin cleaning and manuring</li> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects</li> </ul>
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 (fungal inection) &	<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Bernous diseased part &amp; loop inflamesones clear</li> </ul>
		Chirke and Foorkey (virus infection)	<ul> <li>Remove diseased part &amp; keep inflorescence clean.</li> <li>Uproot &amp; burn virus infected plants</li> </ul>
Pineapple	Active vegetative	, ,	<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> </ul>
Orchards			<ul> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low lond/claim arrays to quaid water stagnation in fruit orchords.</li> </ul>
			land/plain areas to avoid water stagnation in fruit orchards Honey Bees
			<ul> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
			General
			e diverted for Poultry/livestock feeding
Clean drink     Pigs	All stages	FMD (high fever	<ul> <li>the clock and water troughs/feeders should be regularly cleaned,</li> <li>Animals to be housed in dry place or kept in alleviated area and dry</li> </ul>
1 185	Thi stuges	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	age followed by unital vacentation analer vet supervision agains
		mouth and foot.)	FMD
			<ul> <li>FMD</li> <li>Reduce concentrate diet up to 5%</li> </ul>
		mouth and foot.)	<ul> <li>FMD</li> <li>Reduce concentrate diet up to 5%</li> </ul>
Poultry	All stages	mouth and foot.)	<ul> <li>FMD</li> <li>Reduce concentrate diet up to 5%</li> <li>Provide adequate potable water</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</li> <li>Provide preventive dose of anti-coccidial drugs to poultry.</li> </ul>
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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 (IC		or KVK staff for measures against adverse conditions or call 3795-226237/226247

## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 2017)



ग्रामीण कृषि मौसम सेवा







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

## **District: Upper Siang**

No: 78/2017/Fri

Dated: 29th September, 2017



Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Rainfall = NA	Mostly/partly cloudy with possibility of light/moderate rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 21-22°C and 13-15°C respectively. Expected
	morning and evening relative humidity will be 79-87% and 55-74%
	respectively. Wind direction is mainly SSE & ESE with speed range
	of 2-4 kmph.
Warning:	•

## Weather Based Agro-meteorological Advisories Bulletin

#### **General Recommendations**

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

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using atial.on</li> </ul>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul> <li>sticker</li> <li>On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>Do not disturb the soil structure by spading/hoeing in the field.</li> <li>Hand weeding with care is recommended.</li> </ul>
Maize	Fruiting	Grasshopper	• Grasshopper infestation: Bund racking followed by incorporation of Carbofuron 3G
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	<ul> <li>Gap filling is recommended in the early sown crop</li> <li>Manual weeding in greengram/blackgram</li> </ul>
			VEGETABLES
Rabi vegetables	Nursery		<ul> <li>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</li> <li>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.</li> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diagones</li> </ul>
Okra	Maturing	Pod borer	<ul> <li>and diseases.</li> <li>Harvesting and marketing of tender okra fruits,</li> <li>Collection and destruction of herer demaged nod</li> </ul>
~			Collection and destruction of borer damaged pod,
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul> <li>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric. To manage the disease, provide adequate drainage and apply <i>Trichoderma</i> harzianum @ 50 g/bed along with FYM/ neem cake.</li> <li>Provide adequate drainage to prevent water stagnation and apply <i>Trichoderma harzianum</i> @50 g/bed along with FYM/neem cake.</li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
		HORT	
Citrus	Fruit development stage	Citrus Canker Soot Grab	<ul> <li>Undertake necessary tillage operation if there is no rain.</li> <li>Remove weeds from the tree basin and prepare ring around the tree.</li> <li>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</li> <li>Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> <li>Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab.</li> </ul>
Kiwi	Vegetative		<ul> <li>Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.</li> </ul>
Pineapple	Active vegetative		<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended Remove excess suckers</li> </ul>
Banana	Bunching & planting		<ul> <li>Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.</li> <li>Remove the male flower in banana bunches to attain better finger/fruit size.</li> <li>Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to</li> </ul>

			heavy weight or storm.
Ginger/Turmeric	Seedling		<ul> <li>Proper drainage to be done and avoid water stagnation</li> <li>Earthing up of ginger/turmeric along with basal application of required fertilizer should be done</li> </ul>
			Honey Bees
Honey bees			<ul> <li>Box must be covered with straw/dry leaves to provide warmth</li> <li>Provide sugar syrup</li> </ul>
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
	0	1	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	<ul> <li>Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals,</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD</li> <li>Reduce concentrate diet up to 5%</li> <li>Provide adequate potable water</li> <li>In present weather conditions vaccinate against swine fever</li> </ul>
Poultry	All stages		<ul> <li>(Vaccines available in State Veterinary Depts),</li> <li>Provide preventive dose of anti-coccidial drugs to poultry.</li> <li>Proper ventilation of shed</li> <li>Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>➤ 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.</li> <li>Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Fishery			<ul> <li>Application of quick lime is highly recommended in order to rectify water pH.</li> <li>Application of fish feed (mustard oil cake) is essential for achieving higher yield</li> </ul>
Mithun		FMD	<ul> <li>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.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> <li>or KVK staff for measures against adverse conditions or call</li> </ul>

## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 2017)



ग्रामीण कृषि मौसम सेवा







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

## **District: Upper Subansiri**

No: 78/2017/Fri





Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Daporijo: 15.8 mm ( <b>up to 2</b> 6 th <b>Sept</b> )	Mostly cloudy with possibility of moderate to rather heavy
	rainfall. Daily maximum and minimum temperature for the
	following period is predicted to be 22-26°C and 22°C respectively.
	Expected morning and evening relative humidity will be 96-98%
	and 69-91% respectively. Expected wind direction mainly W & NW
	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
- 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

Сгор	Stage	Pest/Disease		Precautionary Practices to be followed
			FIELD	CROPS
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Maize	Fruiting	Grasshopper	•	Grasshopper infestation: Bund racking followed by
				incorporation of Carbofuron 3G
Rabi vegetables	Nursery		<u>vege</u> 1 • • •	CABLESIn present weather conditions, nursery sowing of hybridtomato, cauliflower and cabbage may be done.The seeds should be sown on raised beds (15-20 cm) aftertreating seeds with Trichoderma @ 10 g/kg or withCaptan/Thiram @ 2-3 g/kg seeds.After sowing the seeds in the nursery, cover it withmixture 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 pestsand 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 <i>Trichoderma</i> <i>harzianum</i> @ 50 g/bed along with FYM/ neem cake. Provide adequate drainage to prevent water stagnation and apply <i>Trichoderma harzianum</i> @50 g/bed along with FYM/neem cake. Mulching should be done with locally available mulch, Earthing up of exposed rhizome,
		HORT	ICULT	URAL 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. <b>Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab.</b>
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
Pineapple	Fruiting/Harves ting		•	Harvesting to be done by keeping an inch of fruit stalk to avoid entry of microorganisms which accelerates rotting.
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.

rchards			• Prepare half moon terraces in fruit crop
			(orange/banana/apple/peach) grown in steep slopes to preven
			<ul><li>nutrient loss during heavy downpour.</li><li>Follow proper drainage and earthing up practices in log</li></ul>
			land/plain areas to avoid water stagnation in fruit orchards
			Honey Bees
oney bees			• Provide sugar syrup near the box
			Add insulation and ventilation systems
		T	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,
Poultry	All stages		<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</li> </ul>
i ouru y	i ili stages		<ul> <li>Proper ventilation of shed</li> </ul>
			• Provide glucose/electral along with vitamin supplements (@: 6ml/100 birds) with adequate potable water
			Avoid overcrowding.
			• Provide broad-spectrum antihelminthic drugs under v
			<ul><li>supervision and recommended doses.</li><li>Vaccination as per the schedule with proper consultation with vet</li></ul>
			<ul> <li>Day old chick: HVT Marek disease vaccine, 4-7 day</li> </ul>
			F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 day
			F/Lasota, 6-7 weeks: Chicken embryo adopted fowl po
			vaccine and 56-70 days: RD R-2B strain.
<b>D' 1</b>			Remove wet litter
Fishery			• Application of quick lime is highly recommended in order
			rectify water pH.
			• Application of fish feed (mustard oil cake) is essential for
Dian	A 11 at a c a a	EMD (high foruge	achieving higher yield
Pigs	All stages	FMD (high fever and appearance	• Animals to be housed in dry place or kept in alleviated area and d bedding (straw) to be provided to young animals,
		of mucous	<ul> <li>1st injection at 6 months of age and 2nd injection at 12 months</li> </ul>
		membrane of the	age followed by annual vaccination under vet supervision again
		mouth and foot.) Swine Fever	FMD
		Swille Pevel	<ul><li>Reduce concentrate diet up to 5%</li><li>Provide adequate potable water</li></ul>
			<ul> <li>In present weather conditions vaccinate against swine fever</li> </ul>
			(Vaccines available in State Veterinary Depts),
Cattle	All stages	FMD	• In present weather conditions, special care should be take
			against attack of maggots in the wounds of animal
			<u>Application of turpentine oil in the wounds followed to application of antibiotics for five days is advised.</u>
			<ul> <li>Provide UMB/Molases if possible in the feed</li> </ul>
			<ul> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> </ul>
			• 1 st injection at 6-8 weeks of age, 2 nd injection after 6 months
			1 st injection followed by annual vaccination under v
			<ul><li>supervision</li><li>Separate sick animals</li></ul>
			<ul> <li>The animal should be washed with lukewarm water added with</li> </ul>
			little potash (KMnO ₄ ) or neem leaves
			• Long hair near the udder/stomach/back legs should be teamer short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 month
			of age and repeat after that 6 months interval by sub-cutaneou
			route.
			• Pregnant animals above 7 months of pregnancy should be avoided



## **Agro-met Advisory Bulletin**

(Period: 30th Sept to 3rd Oct 2017)



ग्रामीण कृषि मौसम सेवा







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

## **District: West Kameng**

<u>No: 78/2017/Fri</u>

Dated: 29th September, 2017



Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
Rainfall = Bomdila: 0.0 ; Bhalukpong: 6.4	Mostly cloudy with possibility of light/moderate rainfall. Daily
mm ( <b>up to 2</b> 6 th <b>Sept</b> )	maximum and minimum temperature for the following period is
	predicted to be 21-22°C and 13-15°C respectively. Expected
	morning and evening relative humidity will be 92-96% and 62-75%
	respectively. Wind direction is mainly E with speed range of 2-5
	kmph.
Warning:	•

## Weather Based Agro-meteorological Advisories Bulletin

#### **General Recommendations**

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed FIELD CROPS
Maize	Fruiting	Grasshopper	
Maize	Truning	Grasshopper	<ul> <li>If dry weather prevails, foliar spray 1% urea is recommended</li> <li>Grasshopper infestation: Bund racking followed by incorporation of Carbofuron 3G</li> </ul>
Rice	Panicle initiation/ Dough Grain filling stage	Gundhi bug/ leaf folder/ rice skipper	<ul> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using</li> </ul>
Groundnut	Pegging	Leaf Spot/tikka disease	<ul> <li>sticker</li> <li>On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>Do not disturb the soil structure by spading/hoeing in the field.</li> </ul>
			• Hand weeding with care is recommended.
			VEGETABLES
Okra	Maturing	Pod borer	<ul> <li>Harvesting and marketing of tender okra fruits,</li> <li>Collection and destruction of borer damaged pod,</li> </ul>
Rabi vegetables Ginger/turmeric	Nursery Vegetative stage	Rhizome rot	<ul> <li>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</li> <li>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.</li> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> <li>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric. To manage the disease, provide adequate drainage and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/ neem cake.</li> <li>Provide adequate drainage to prevent water stagnation and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/neem cake.</li> </ul>
			<ul><li>Mulching should be done with locally available mulch,</li><li>Earthing up of exposed rhizome,</li></ul>
			TCULTURAL CROPS
Citrus	Fruit development stage	Citrus Canker Soot Grab	<ul> <li>Undertake necessary tillage operation if there is no rain.</li> <li>Remove weeds from the tree basin and prepare ring around the tree.</li> <li>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</li> <li>Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> <li>Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab.</li> </ul>
Kiwi	Vegetative		<ul> <li>Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.</li> </ul>
Pineapple	Active vegetative / Fruiting		<ul> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> </ul>
Banana	Bunching & planting		<ul> <li>Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant.</li> <li>Remove the male flower in banana bunches to attain better finger/fruit size.</li> <li>Remove excess sucker from Banana in mother plant and</li> </ul>

			give support in banana bunches to protect falling due to heavy weight or storm.	
Orchards			<ul> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>	
Apple	Vegetative	Wooly aphids	• Swab the stem with mineral oil against wooly aphid.	
			Honey Bees	
Honey bees			<ul><li>Provide sugar syrup near the box</li><li>Add insulation and ventilation systems</li></ul>	
<b>.</b>	a.	51	LIVESTOCKS	
Livestock	Stage	Disease	Precautionary Practices to be followed General	
Damaged gr	ain (not fungus c	ontaminated) to b	e diverted for Poultry/livestock feeding	
0 0	· 0	be ensured round	the clock and water troughs/feeders should be regularly cleaned,	
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <li>Animals to be housed in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals,</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD</li> <li>Reduce concentrate diet up to 5%</li> <li>Provide adequate potable water</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Depts),</li> </ul>	
Fishery			<ul> <li>Application of quick lime is highly recommended in order to</li> </ul>	
			<ul><li>rectify water pH.</li><li>Application of fish feed (mustard oil cake) is essential for achieving higher yield</li></ul>	
Poultry	All stages		<ul> <li>Provide preventive dose of anti-coccidial drugs to poultry.</li> <li>Proper ventilation of shed</li> <li>Provide glucose/electral along with vitamin supplements (@5-6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>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.</li> </ul>	
Cattle	All stages	FMD	<ul> <li>Remove wet litter</li> <li>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.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>	
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	
			<ul><li> Pregnant animals above 7 months of pregnancy should be avoided.</li></ul>	
Contact Scien	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

## कृषि मौसम सलाहकार सेवा पत्रिका Agro-met Advisory Bulletin

(Period: 30th Sept to 3rd Oct 2017)

ग्रामीण कृषि मौसम सेवा







(Integrated Agro-Meteorological Advisory Services)



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

## **District: West Siang**

<u>No: 78/2017/Fri</u>

Dated: 29th September, 2017



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

Weather summery of the previous week	Weather forecast valid up to 4 th Oct 2017
<b>Basar:</b> Rainfall = $0.0 \text{ mm. T. Max: } 32.8^{\circ}\text{C}$ ,	Mostly cloudy with possibility of moderate to rather heavy
T. Min: 21.0°C, RH: 57-91%, Wind Speed:	rainfall. Daily maximum and minimum temperature for the
3-4 kmph, Wind Direction: WSW & SW	following period is predicted to be 29-30°C and 22-23°C
	respectively. Expected morning and evening relative humidity will
	be 91-95% and 68-88% respectively. Wind direction is mainly
	WSW & WNW with speed range of 2-4 kmph.
Warning:	•

## Weather Based Agro-meteorological Advisories Bulletin

## **General Recommendations**

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

It is advised that farmers may use zero tillage technology in harvested paddy fields in upland/Jhum for sowing of Pea/maize. In this method without ploughing, sowing of pea may be done to use moisture of rice field and straw of rice as organic manure. Taking into account the rainfall recorded during last week, this technology is very suitable for harvested *Jhum* rice field.

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Groundnut	Pegging	Leaf Spot/tikka disease	<ul> <li>On sunny day, spray carbendazim/Mancozeb @ 1-2 ml/lit of water</li> <li>Do not disturb the soil structure by spading/hoeing in the field.</li> <li>Hand weeding with care is recommended.</li> </ul>
Rice	Dough Grain filling stage	Gundhi bug	<ul> <li>Monitor crop against attack of gundhi bug,</li> <li>Weeding is advised to ward off the alternate host of gundhi bug</li> <li>Install local trap of dead frog/fermented fish etc against gundhi bug in rice or spray triazophos/chloripyriphos@1-2ml/lit.</li> <li>Need based spray of Flubendiamide 3.5% + Hexaconazole 5% @ 2ml/lit against rice skipper &amp; leaf folder using sticker</li> </ul>
Pulses	Flowering	Blister beetle	<ul> <li>Application of fertilizers and spray operations to be delayed/avoided</li> <li>Go for manual picking of Blister beetle without delay because the incidence of the pest during flowering stage cause huge lose in harvest</li> </ul>
			VEGETABLES
Okra	Maturing	Pod borer	<ul><li>Harvesting and marketing of tender okra fruits,</li><li>Collection and destruction of borer damaged pod,</li></ul>
Rabi vegetables	Nursery		<ul> <li>In present weather conditions, nursery sowing of hybrid tomato, cauliflower and cabbage may be done.</li> <li>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.</li> <li>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.</li> <li>Weeding of the standing crop may be done,</li> <li>Monitoring of standing crops against attack of insect pests and diseases.</li> </ul>
Ginger/turmeric	Vegetative stage	Rhizome rot	<ul> <li><u>Under excessive moisture, there is every possibility of rhizome rot in ginger and turmeric. To manage the disease, provide adequate drainage and apply <i>Trichoderma harzianum</i> @ 50 g/bed along with FYM/ neem cake.</u></li> <li>Provide adequate drainage to prevent water stagnation and apply <i>Trichoderma harzianum</i> @50 g/bed along with FYM/neem cake.</li> <li>Mulching should be done with locally available mulch,</li> <li>Earthing up of exposed rhizome,</li> </ul>
Cucurbits (Bottle gourd,Ridge gourd, Pumpkin, Bitter gourd, Cucumber, etc.)	Harvesting	Aphid/ Red pumpkin beetle/ Cutworm	<ul> <li>On clear/dry weather, Spraying of Dimethoate 30 EC @ 3ml/litre of water is advised against aphids,</li> <li>On clear/dry weather, Spraying of Deltamethrin 4ml/10 litre of water is advised for management of Red pumpkin beetle grass,</li> <li>Drench the base with chlorpyrifos 20EC @ 2ml/litre; 11itre per plant.</li> </ul>
			ICULTURAL CROPS
Citrus	Fruit development stage	Citrus Canker Soot Grab	<ul> <li>Undertake necessary tillage operation if there is no rain.</li> <li>Remove weeds from the tree basin and prepare ring around the tree.</li> <li>Due to high humidity the problem of citrus canker get</li> </ul>

	Fruit Development Fruiting/ Ripening Vegetative Fruiting/Harves ting Seedling Flowering stage	Fruit fly Fruit fly Chirkey Disease (fungal inection) & Chirke and Foorkey (virus infection)	<ul> <li>liters of water to control canker</li> <li>Follow clean cultivation in orchard and bury fallen fruits in a deep pit frequently.</li> <li>Incorporate Clothianidin 50 WDG @ 4gm/plant in base region of the plant against soot grab.</li> <li>Basin cleaning and manuring</li> <li>Install fruit fly pheromone traps for collection and destruction of the adult insects</li> <li>Cover bunches with banana bunch covers or sacks or locally available materials to protect against sunscald, birds and insects.</li> <li>Manuring with well decomposed FYM@15kg/plant followed by mulching with paddy straw.</li> <li>The fruit must be harvested with crown (whorl of leaves attached to the apical end of the fruit) to prolong the freshness of fruit and avoid microbial attack.</li> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Proper drainage to be done and avoid water stagnation</li> <li>Mulching with locally available materials like dry grass/paddy straw recommended</li> <li>Remove diseased part &amp; keep inflorescence clean.</li> <li>Uproot &amp; burn virus infected plants</li> </ul>
Orchards			<ul> <li>Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
Honey bees			<ul> <li>Honey Bees</li> <li>Box must be covered with straw/dry leaves to provide warmth</li> <li>Provide sugar syrup</li> </ul>
	Γ		LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
• Damaged gr	ain (not fungus co	ontaminated) to b	Precautionary Practices to be followed General e diverted for Poultry/livestock feeding
<ul><li> Damaged gr</li><li> Clean drink</li></ul>	ain (not fungus co ing water should ]	ontaminated) to b	Precautionary Practices to be followed General e diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
<ul> <li>Damaged gr</li> <li>Clean drink</li> <li>Goat</li> </ul>	ain (not fungus co ing water should All stages	ontaminated) to b be ensured round	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
<ul><li> Damaged gr</li><li> Clean drink</li></ul>	ain (not fungus co ing water should ]	ontaminated) to b	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         • 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 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
<ul> <li>Damaged gr</li> <li>Clean drink</li> <li>Goat</li> </ul>	ain (not fungus co ing water should All stages	ontaminated) to b be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	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         • 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 age followed by annual vaccination under vet supervision against FMD         • Reduce concentrate diet up to 5%         • Provide adequate potable water

Cattle	All stores	FMD	<ul> <li>F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days:</li> <li>F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.</li> <li>Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul> <li>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.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Mithun		FMD	<ul> <li>Polyvalent FMD vaccine with serotype 0, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
Contact Scier	ntists (ICAR) or S		ff or KVK staff for measures against adverse conditions or call 03795-226237/226247