Agro-met Advisory Bulletin

(Period: 17th to 19th May 2017)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)

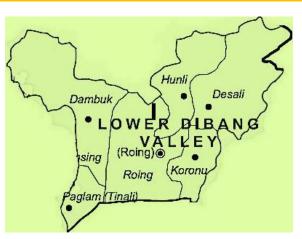


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Lower Dibang Valley

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



Weather summery of the previous week	Weather forecast valid up to 21 st May, 2017
Rainfall = NA (Roing)	Partly cloudy with possibility of moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 30-32°C and 21-23°C respectively. Expected morning
	and evening relative humidity will be 81-91% and 40-45%
	respectively. Wind direction is mainly E with speed range of 4 kmph.
Warning:	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

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

	Crop	Stage	Pest/Disease	Precautionary Practices to be followed
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			FIELD CROPS
Maize	Knee height		• Carry out thinning and earthing up in maize without delay
Soybean	Sowing		Right time for sowing of soybean
-	C		• Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 &
			VR-708 can be carried out without delay.
Rice	Seedling	Stem borer	• Top dressing of urea one third of recommended dose can be
			carried out in upland/jhum rice and maize.
			• Cut the tips of the leaves before transplanting reduces the
			population of stem borer as the eggs are laid on that site. It
			will reduce the carryover of the infestation to the main field.
Jhum field	Sowing		• Adopt sowing of leguminous crops like cowpea, frenchbean,
			soybean etc at 2-3 rows across the slope of jhum field at
			desirable intervals or ratios with rice to prevent soil erosion
			and conserve moisture and fertility.
			• Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing to avoid fungal
			• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short
			duration, dwarf and high yielding.
			VEGETABLES
Pre-summer	Seedling		Provision of drainage to remove excess water followed by
vegetables	200000		earthing up in vegetables.
			• On clear/dry weather, spray Boom (organic liquid
			manure) @ 4ml/lit of water for proper growth and
			development.
		HOR	FICULTURAL CROPS
Banana	Vegetative		• Planting of banana making pit maintaining at a spacing of 2.5
			X 2.5 meter plant to plant and row to row distance.
			Denavelling (removal of male bud) to improve bunch weight
			 Bagging of bunches to protect against unusual rainfall.
Ginger/Turmeric	Sowing/		Disease free ginger/turmeric rhizomes of 30-40g having
	germination		atleast 2 eyes to be sown in finely tilth bed of 1 meter width,
			15 cm high and of convenient length at a spacing of 30 cm
			between rows and 25cm between plants.
			Mulching ginger beds with locally available
			leaves/materials is advocated to enhance germination
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
Citrus	Flowering /	Bark eating	• Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe
	Fruiting	caterpillar	in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.
			• Budding method of propagation (T-budding) to commences in
			oranges using Rangpur lime as rootstock.Cleaning & smearing of trunk base with Bordeaux paste
			 If flowering begins, avoid spray of insecticides/ pesticides as it
			may affect pollination process.
		• Spray (Planofix) NAA based growth regulator @2m/5lit water	
			during flowering stage in orange plant to reduce fruit/flower
			drop For both seting setemiller remove meeder from and
			• For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.
			 Dead wood on the citrus trees should be kept pruned,
			about 2cm, below the dead portion.
Large Cardamom	Sowing		• Should be sown in Primary nursery bed at 2cm deep and 10
			cm apart followed by mulching & regular light irrigation.
			• The duration of primary nursery being 3-4 months.

		• Box must be covered with straw/dry leaves to provide
		warmth
		LIVESTOCKS
Stage	Disease	Precautionary Practices to be followed
Fingerlings		• Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings
All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 Animals should be given lukewarm feed and water. Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision
All stages		 Give broad-spectrum antihelmintic drugs as per prescribed doses. Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. Provide adequate clean drinking water+electrolyte and multivitamins Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days F/Lasota, 6-7 weeks: Chicken embryo adopted fowl po vaccine and 56-70 days: RD R-2B strain. Remove wet litter/provide artificial heating and light
All stages	FMD	 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1 injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamer short.
	Fingerlings All stages All stages All stages	Singerlings FMD (high fever and appearance of mucous membrane of the mouth and foot.) All stages All stages

Agro-met Advisory Bulletin

(Period: 17th to 19th May 2017)



ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Lower Subansiri

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



Weather summery of the previous week	Weather forecast valid up to 21 st May 2017
Rainfall = NA (Ziro)	Partly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 30-31°C and 20-21°C respectively. Expected
	morning and evening relative humidity will be 92-94% and 56-70%
	respectively. Wind direction is mainly E & ESE with speed range of
	2-4 kmph.
Warning:	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

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

Cron	Stage	Pest/Disease	Descontionary Describes to be followed
Сгор	Stage	Pest/Disease	Precautionary Practices to be followed FIELD CROPS
Soybean	Sowing		Right time for sowing of soybean
	6		• Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
Pulses	Vegetative		Apply biosulphur @2ml/lit water to enhance yield
Maize	Knee height		• Carry out thinning and earthing up in maize without delay
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 &
ger	20000		VR-708 can be carried out without delay.
Jhum field	Sowing		• Adopt sowing of leguminous crops like cowpea, frenchbean,
			soybean etc at 2-3 rows across the slope of jhum field at
			desirable intervals or ratios with rice to prevent soil erosion
			and conserve moisture and fertility.
			• Cowpea variety (Kashi Kanchan) and Frenchbean variety
			(Selection-9) are advocated for intercropping as they are short
			duration, dwarf and high yielding.
			Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
Rice	Seedling	Stem borer	Manual weeding advocated
	becaning		• Top dressing of urea one third of recommended dose can be
			carried out in upland/jhum rice and maize.
			• Cut the tips of the leaves before transplanting reduces the
			population of stem borer as the eggs are laid on that site. It
			will reduce the carryover of the infestation to the main field.
			• On clear/dry weather or using sticker (@1ml/lit), spray
			Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery
			as well as in main field.
Decomposition	Coolline/	1	VEGETABLES
Pre-summer vegetables	Seedling/ vegetative		• Provision of drainage to remove excess water followed by earthing up in vegetables.
			 On clear/dry weather, spray Boom (organic liquid manure) @
			4ml/lit of water for proper growth and development.
			• On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water
			against insect pests
			• In cucurbitaceous crops like bottle gourd, cucumber, ridge
			gourd etc, earthing up to be done followed by manuring;
			and stacking should be followed and trained on a bower
			system made of bamboor + sticks.
Cine of Transaction		HORT	ICULTURAL CROPS
Ginger/Turmeric	Sowing/ germination		• Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width,
	8		15 cm high and of convenient length at a spacing of 30 cm
			between rows and 25cm between plants.
			Mulching ginger beds with locally available
			leaves/materials is advocated to enhance germination
Citrus	Fruiting	Bark eating	• Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe
		caterpillar/	in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.
		Budding method of propagation (T-budding) to commences in	
		 oranges using Rangpur lime as rootstock. If the citrus trees are showing oozing symptoms of gum 	
			then scrap the area with a sharp knife and apply
			Metalaxyl MZ-72 or Fosetyl A1 paste on it.
			• Cleaning & smearing of trunk base with Bordeaux paste
			• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.
			 For bark eating caterpillar, remove wooden frass and
			inject Dichlorovos (0.1%) @ 5ml with disposable syringe.
			• Dead wood on the citrus trees should be kept pruned,
			about 2cm, below the dead portion.

Banana	Vegetative		 Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. Denavelling (removal of male bud) to improve bunch weight Bagging of bunches to protect against unusual rainfall.
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
Large Cardamom	Sowing		 Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months.
			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
Fishery	Fingerlings		• Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice
			daily advocated for healthy fingerlings
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 Animals should be given lukewarm feed and water. Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision
Poultry	All stages		 Give broad-spectrum antihelmintic drugs as per prescribed doses. Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. Provide adequate clean drinking water+electrolyte and multivitamins Vaccination as per the schedule with proper consultation with vet. > Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter/provide artificial heating and light
Cattle	All stages	FMD	 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scient	tists (ICAR) or		or KVK staff for measures against adverse conditions or call 3795-226237/226247

Agro-met Advisory Bulletin

(Period: 17th to 19th May 2017)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

District: Papum Pare



Dated: 16th May, 2017



Weather summery of the previous week	Weather forecast valid up to 17 th May 2017
Rainfall: NA; T. Max: NA; T. Min: NA; RH:	Partly cloudy with possibility of light/moderate rainfall. Daily
NA	maximum and minimum temperature for the following period is
	predicted to be 29-33°C and 20-21°C respectively. Expected
	morning and evening relative humidity will be 87-93% and 48-63%
	respectively. Expected wind direction is mainly E & ESE with speed
	range of 2-3 kmph.
Warning:	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
0 1			FIELD CROPS
Soybean	Sowing		 Right time for sowing of soybean Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
Pulses	Vegetative		Apply biosulphur @2ml/lit water to enhance yield
Maize	Knee height		
	<u> </u>		
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay.
Rice	Seedling	Stem borer	 Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize. Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field. On clear/dry weather or using sticker (@1ml/lit), spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.
Jhum field	Sowing		 Manual weeding advocated Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
_			VEGETABLES
Pre-summer vegetables	Seedling/ vegetative		 Provision of drainage to remove excess water followed by earthing up in vegetables. On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development. On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water against insect pests In cucurbitaceous crops like bottle gourd, cucumber, ridge gourd etc, earthing up to be done followed by manuring; and stacking should be followed and trained on a bower system made of bamboor + sticks.
		HORT	ICULTURAL CROPS
Orchards Banana	Vegetative		 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 Planting of banana making pit maintaining at a spacing of 2.5
			 X 2.5 meter plant to plant and row to row distance. Denavelling (removal of male bud) to improve bunch weight Bagging of bunches to protect against unusual rainfall.
Citrus	Fruiting	Bark eating caterpillar/	 Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it. Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.

		• Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
Sowing/ germination		 Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants. Mulching ginger beds with locally available leaves/materials is advocated to enhance germination
Sowing		 Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months.
		Honey Bees
		• Box must be covered with straw/dry leaves to provide warmth
		LIVESTOCKS
Stage	Disease	Precautionary Practices to be followed
Fingerlings		• Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice
		daily advocated for healthy fingerlings
All stages	FMD	 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	
All stages		 Give broad-spectrum antihelmintic drugs as per prescribed doses. Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. Provide adequate clean drinking water+electrolyte and multivitamins Vaccination as per the schedule with proper consultation with vet. > Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.
	FMD	 Remove wet litter/provide artificial heating and light 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.
	germination Sowing Sowing All stages All stages	germination germination Sowing Sowing Sowing Tingerlings All stages All stages FMD (high fever and appearance of mucous membrane of the mouth and foot.) All stages All stages

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(Period: 17th to 19th May 2017)



ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Tawang

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



Weather summery of the previous week	Weather forecast valid up to 21 st May 2017
Rainfall = NA	Partly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 15-16°C and 8-9°C respectively. Expected morning
	and evening relative humidity will be 87-92% and 55-62%
	respectively. Wind direction is mostly SE with probable speed range
	of 2-6 kmph.
Warning:	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
~ .	~ .	T	FIELD CROPS
Soybean	Sowing		 Right time for sowing of soybean Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
Maize	Knee height		• Carry out thinning and earthing up in maize without delay
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay.
Rice	Seedling	Stem borer	 Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field. On clear/dry weather or using sticker (@1ml/lit), spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.
Jhum field	Sowing		 Manual weeding advocated on clear/dry day. Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
Pre-summer	Seedling/		VEGETABLES
vegetables	vegetative		 Provision of drainage to remove excess water followed by earthing up in vegetables. On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development. On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water against insect pests In cucurbitaceous crops like bottle gourd, cucumber, ridge gourd etc, earthing up to be done followed by manuring; and stacking should be followed and trained on a bower system made of bamboor + sticks.
			ICULTURAL CROPS
Citrus	Fruiting	Bark eating caterpillar/	 Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it. Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
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
Large Cardamom	Sowing		 Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months.
			Honey Bees

oney bees			Provide sugar syrup near the boxAdd insulation and ventilation systems
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 Animals should be given lukewarm feed and water. Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months age followed by annual vaccination under vet supervision
Poultry	All stages		 Give broad-spectrum antihelmintic drugs as per prescribed doses. Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. Provide adequate clean drinking water+electrolyte and multivitamins Vaccination as per the schedule with proper consultation with vet > Day old chick: HVT Marek disease vaccine, 4-7 day F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 day F/Lasota, 6-7 weeks: Chicken embryo adopted fowl per vaccine and 56-70 days: RD R-2B strain. Remove wet litter/provide artificial heating and light
Cattle	All stages	FMD	 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1 injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added wir little potash (KMnO₄) 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.

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(Period: 17th to 19th May 2017)



ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

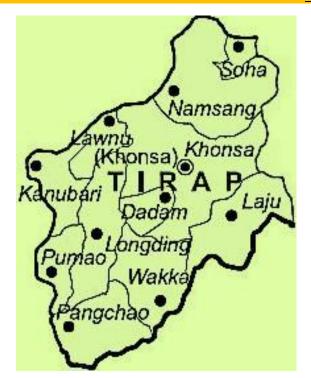


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Tirap

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



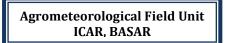
Weather summery of the previous week	Weather forecast valid up to 21 st May, 2017
Rainfall = NA (Deomali)	Partly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 32-33°C and 22-23°C respectively. Expected
	morning and evening relative humidity will be 88-92% and 44-67%
	respectively. Wind direction is variable with speed range of 2 kmph.
Warning:	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
Contract	0!		FIELD CROPS
Soybean	Sowing		Right time for sowing of soybean
			Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
Maize	Knee height		• Carry out thinning and earthing up in maize without delay
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay.
Rice	Seedling	Stem borer	 Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field. Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces. Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider
Jhum field	Sowing		 spacing of 20X15cm. Manual weeding advocated on clear/dry day Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
			VEGETABLES
Pre-summer vegetables	Seedling/ vegetative	HOBT	 Provision of drainage to remove excess water followed by earthing up in vegetables. On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development. On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water against insect pests In cucurbitaceous crops like bottle gourd, cucumber, ridge gourd etc, earthing up to be done followed by manuring; and stacking should be followed and trained on a bower system made of bamboor + sticks.
Banana	Vegetative	HUKI	
Banana	Vegetative		 Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. Denavelling (removal of male bud) to improve bunch weight Bagging of bunches to protect against unusual rainfall.
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
Citrus	Flowering/fruitin g	Bark eating caterpillar	 Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about

and app of me membra		 Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants. Mulching ginger beds with locally available leaves/materials is advocated to enhance germination Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months. Honey Bees Box must be covered with straw/dry leaves to provide warmth VESTOCKS Precautionary Practices to be followed Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months or age followed by annual vaccination under vet supervision
nination owing tage Dise gerlings I stages FMD (h and app of m membra	igh fever ucous	 atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants. Mulching ginger beds with locally available leaves/materials is advocated to enhance germination Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months. Honey Bees Box must be covered with straw/dry leaves to provide warmth VESTOCKS Precautionary Practices to be followed Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of
owing tage Dise gerlings I stages FMD (hi and app of mi membra	igh fever ucous	 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants. Mulching ginger beds with locally available leaves/materials is advocated to enhance germination Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months. Honey Bees Box must be covered with straw/dry leaves to provide warmth IVESTOCKS Precautionary Practices to be followed Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of
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tage Dise gerlings I stages FMD (h and app of m membra	igh fever ucous	 Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months. Honey Bees Box must be covered with straw/dry leaves to provide warmth VESTOCKS Precautionary Practices to be followed Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of
tage Dise gerlings I stages FMD (h and app of m membra	igh fever ucous	 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months. Honey Bees Box must be covered with straw/dry leaves to provide warmth IVESTOCKS Precautionary Practices to be followed Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of
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serlings I stages FMD (h and app of m membra	igh fever pearance ucous	 Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of
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and app of me membra	earance •	Keep the houses dry and clean. 1^{st} injection at 6 months of age and 2^{nd} injection at 12 months of
and app of me membra	earance •	1 st injection at 6 months of age and 2 nd injection at 12 months of
of m membra	ucous	
membra		age followed by annual vaccination under vet supervision
mound	und foot.)	
stages	•	Give broad-spectrum antihelmintic drugs as per prescribed
-		doses.
	•	Follow 'All in All out' system of rearing and do not rear birds o
		different age groups together.
	•	Avoid overcrowding.
	•	Provide adequate clean drinking water+electrolyte and multivitamins
	•	 Vaccination as per the schedule with proper consultation with vet. ➤ Day old chick: HVT Marek disease vaccine, 4-7 days
		F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days
		F/Lasota, 6-7 weeks: Chicken embryo adopted fowl po
		vaccine and 56-70 days: RD R-2B strain.
	•	Remove wet litter/provide artificial heating and light
stages FN	MD •	1 st injection at 6-8 weeks of age, 2 nd injection after 6 months of 1
		injection followed by annual vaccination under vet supervision
	•	Separate sick animals
	•	The animal should be washed with lukewarm water added with little network $(KMnO)$ or norm because
		little potash (KMnO ₄) or neem leaves
	•	Long hair near the udder/stomach/back legs should be teame short.
FN	MD •	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
	FN	•



Agro-met Advisory Bulletin

(Period: 17th to 19th May 2017)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

District: Upper Siang

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



Weather summery of the previous week	Weather forecast valid up to 21 st May, 2017
Rainfall = NA (Tuting)	Partly cloudy with possibility of moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 28-31°C and 18-21°C respectively. Expected
	morning and evening relative humidity will be 83-87% and 43-52%
	respectively. Wind direction is mainly SSE & S with speed range of
	2-3 kmph.
Warning:	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Soybean	Sowing		Right time for sowing of soybean
			Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
Maize	Knee height		• Carry out thinning and earthing up in maize without delay
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay.
Rice	Seedling	Stem borer	 Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize. On clear/dry weather or using sticker (@1ml/lit), spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field. Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Jhum field	Sowing		 Manual weeding advocated on clear/dry day Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
	1	1	VEGETABLES
Pre-summer vegetables	Seedling/ vegetative		 Provision of drainage to remove excess water followed by earthing up in vegetables. On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development. On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water against insect pests In cucurbitaceous crops like bottle gourd, cucumber, ridge gourd etc, earthing up to be done followed by manuring; and stacking should be followed and trained on a bower system made of bamboor + sticks.
		HORT	ICULTURAL CROPS
Citrus	Fruiting	Bark eating caterpillar/	 Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it. Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
Banana	Vegetative		 Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. Denavelling (removal of male bud) to improve bunch weight Bagging of bunches to protect against unusual rainfall
Orchards			 Bagging of bunches to protect against unusual rainfall. 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
Ginger/Turmeric	Sowing/ germination		 Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants. Mulching ginger beds with locally available leaves/materials is advocated to enhance germination
Large Cardamom	Sowing		 Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months.
			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
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	
Poultry	All stages		 Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. Provide adequate clean drinking water+electrolyte and multivitamins Vaccination as per the schedule with proper consultation with vet. > Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter/provide artificial heating and light
Fishery	Fingerlings		Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings
Cattle	All stages	FMD	 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
		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

Agro-met Advisory Bulletin

(Period: 17th to 19th May 2017)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

District: Upper Subansiri

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



Weather summery of the previous week	Weather forecast valid up to 21 st May 2017
Rainfall = NA (Puchi Geko); Daporijo: NA	Partly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 30-32°C and 20-21°C respectively. Expected
	morning and evening relative humidity will be 91-94% and 56-72%
	respectively. Expected wind direction is mainly SW & WSW with
	speed range of 2-4 kmph.
Warning	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
	0		FIELD CROPS
Soybean	Sowing		Right time for sowing of soybean
			• Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 &
			VR-708 can be carried out without delay.
Rice	Seedling	Stem borer	• Cut the tips of the leaves before transplanting reduces the
			population of stem borer as the eggs are laid on that site. It
Maize	Vaca haisht		will reduce the carryover of the infestation to the main field.
	Knee height		• Carry out thinning and earthing up in maize without delay
Jhum field	Sowing		Manual weeding advocated on clear/dry day
			• Adopt sowing of leguminous crops like cowpea, frenchbean,
			soybean etc at 2-3 rows across the slope of jhum field at
			desirable intervals or ratios with rice to prevent soil erosion
			and conserve moisture and fertility.
			• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short
			duration, dwarf and high yielding.
			Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
			VEGETABLES
Pre-summer	Seedling/		• Provision of drainage to remove excess water followed by
vegetables	vegetative		earthing up in vegetables.
			• On clear/dry weather, spray Boom (organic liquid manure) @
			4ml/lit of water for proper growth and development.
			• On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water
			against insect pests
			• In cucurbitaceous crops like bottle gourd, cucumber, ridge
			gourd etc, earthing up to be done followed by manuring;
			and stacking should be followed and trained on a bower
			system made of bamboor + sticks.
Degene	Vecetative	HOR1	ICULTURAL CROPS
Banana	Vegetative		• Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.
			 Denavelling (removal of male bud) to improve bunch
			weight
			Bagging of bunches to protect against unusual rainfall.
Citrus	Fruiting	Bark eating	• Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe
		caterpillar/	in Khasi Mandarin. Mix sticker 1ml/lit in case of rain
			• For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.
			 Dead wood on the citrus trees should be kept pruned,
			about 2cm, below the dead portion.
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
Ginger/Turmeric	Sowing/		Disease free ginger/turmeric rhizomes of 30-40g having
	germination		atleast 2 eyes to be sown in finely tilth bed of 1 meter width,
			15 cm high and of convenient length at a spacing of 30 cm
			between rows and 25cm between plants.
			 Mulching ginger beds with locally available
			leaves/materials is advocated to enhance germination
	Souring	I	
Large Cardamom	Sowing		• Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation.

Apple	Vegetative	Wooly aphids	• Swab the stem with mineral oil against wooly aphid.
			Honey Bees
Honey bees			Provide sugar syrup near the box
			Add insulation and ventilation systems
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Fishery	Fingerlings		• Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice
			daily advocated for healthy fingerlings
Cattle	All stages	FMD	 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1 injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 Provide adequate bedding material (paddy straw, rice husk) to newly born piglets. Animals should be given lukewarm feed and water.
Poultry	All stages		 Provide broad-spectrum antihelminthic drugs under versupervision and recommended doses. Follow 'All in All out' system of rearing and do not rear birds or different age groups together. Avoid overcrowding. Provide adequate clean drinking water+electrolyte and multivitamins Vaccination as per the schedule with proper consultation with vet. > Day old chick: HVT Marek disease vaccine, 4-7 days F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days F/Lasota, 6-7 weeks: Chicken embryo adopted fowl por vaccine and 56-70 days: RD R-2B strain. Remove wet litter/provide artificial heating and light
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 for KVK staff for measures against adverse conditions or call

Agro-met Advisory Bulletin

(Period: 17th to 19th May 2017)



ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: West Kameng

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



Weather summery of the previous week	Weather forecast valid up to 21 st May 2017
Rainfall = Bomdila: NA; Bhalukpong: NA	Partly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 18-20°C and 12-13°C respectively. Expected
	morning and evening relative humidity will be 86-90% and 49-61%
	respectively. Wind direction is mainly ENE with speed range of 3-4
	kmph.
Warning:	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
Crop	Buge	I cou Discuse	FIELD CROPS
Soybean	Sowing		Right time for sowing of soybean
	6		• Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
Finger millet	Sowing		 Sowing of short duration finger millet varieties like VL-324 &
ringer minet	Sowing		
D'	0 11.	0, 1	VR-708 can be carried out without delay.
Rice	Seedling	Stem borer	• Top dressing of urea one third of recommended dose can be
			carried out in upland/jhum rice and maize.
			• Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in
			rice nursery as well as in main field.
			• Cut the tips of the leaves before transplanting reduces the
			population of stem borer as the eggs are laid on that site. It
			will reduce the carryover of the infestation to the main field.
Jhum field	Sowing		Manual weeding advocated on clear/dry weather
	-		• Adopt sowing of leguminous crops like cowpea, frenchbean,
			soybean etc at 2-3 rows across the slope of jhum field at
			desirable intervals or ratios with rice to prevent soil erosion
			and conserve moisture and fertility.
			 Cowpea variety (Kashi Kanchan) and Frenchbean variety
			(Selection-9) are advocated for intercropping as they are short
			duration, dwarf and high yielding.
			• Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
D	G 111 /		VEGETABLES
Pre-summer	Seedling/		• Provision of drainage to remove excess water followed by
vegetables	vegetative		earthing up in vegetables.
			• On clear/dry weather, spray Boom (organic liquid manure) @
			4ml/lit of water for proper growth and development.
			• On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water
			against insect pests
			• In cucurbitaceous crops like bottle gourd, cucumber, ridge
			gourd etc, earthing up to be done followed by manuring;
			and stacking should be followed and trained on a bower
			system made of bamboor + sticks.
		HORT	ICULTURAL CROPS
Citrus	Fruiting	Bark eating	• Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe
	0	caterpillar/	in Khasi Mandarin. Mix sticker 1ml/lit in case of rain
			• Budding method of propagation (T-budding) to commences in
			oranges using Rangpur lime as rootstock.
			• remove wooden frass and inject Dichlorovos (0.1%) @ 5ml
			with disposable syringe.
			• Dead wood on the citrus trees should be kept pruned,
	XX		about 2cm, below the dead portion.
Banana	Vegetative		• Planting of banana making pit maintaining at a spacing of 2.5
			X 2.5 meter plant to plant and row to row distance.
			Denavelling (removal of male bud) to improve bunch maintain
			weight
Ginger/Turmeric	Sowing/		 Bagging of bunches to protect against unusual rainfall. Disease free ginger/turmeric rhizomes of 30-40g having
Ginger/Turmeric	germination		
	Sermination		at least 2 eyes to be sown in finely tilth bed of 1 meter width,
			15 cm high and of convenient length at a spacing of 30 cm
			between rows and 25cm between plants.
			Mulching ginger beds with locally available
			leaves/materials is advocated to enhance germination
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
		1	land/plain areas to avoid water stagnation in fruit orchards

Sowing		 Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months.
Vegetative	Wooly aphids	• Swab the stem with mineral oil against wooly aphid.
		Honey Bees
		Provide sugar syrup near the boxAdd insulation and ventilation systems
		LIVESTOCKS
Stage	Disease	Precautionary Practices to be followed
Fingerlings		• Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings
All stages	FMD	 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
All stages	and appearance of mucous membrane of the	 Animals should be given lukewarm feed and water. Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision
All stages		 Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. Provide adequate clean drinking water+electrolyte and multivitamins Vaccination as per the schedule with proper consultation with vet. ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter/provide artificial heating and light
	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.
	Vegetative Vegetative Stage Fingerlings All stages	Vegetative Wooly aphids Vegetative Wooly aphids Image: Stage Disease Stage Disease Fingerlings Image: Stage All stages FMD All stages FMD (high fever and appearance of mucous membrane of the mouth and foot.) All stages Image: Stage of mucous membrane of the mouth and foot.) All stages Image: Stage of mucous membrane of the mouth and foot.)

कृषि मौसम सलाहकार सेवा पत्रिका Agro-met Advisory Bulletin

(Period: 17th to 19th May 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA



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

District: West Siang

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



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

Weather summery of the previous week	Weather forecast valid up to 21 st May 2017
Rainfall = 18.2 mm. T. Max: 32.0° C, T.	Partly cloudy with possibility of light/moderate rainfall. Daily
Min: 16.3°C, RH: 43-93%, Wind Speed: 3-6	maximum and minimum temperature for the following period is
kmph, Wind Direction: SW & NW	predicted to be 29-30°C and 21-22°C respectively. Expected
	morning and evening relative humidity will be 90-92% and 54-67%
	respectively. Wind direction is mainly W & WNW with speed range
	of 2-4 kmph.
Warning:	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Soybean	Sowing		Right time for sowing of soybean
			Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay.
Maize	Knee height		• Carry out thinning and earthing up in maize without delay
Rice	Seedling	Stem borer	 Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize. Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Pulses	Vegetative		Apply biosulphur @2ml/lit water to enhance yield
Jhum field	Sowing		 Manual weeding advocated on clear/dry weather Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
			VEGETABLES
Pre-summer vegetables	Seedling/ vegetative		 Provision of drainage to remove excess water followed by earthing up in vegetables. On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development. On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water against insect pests In cucurbitaceous crops like bottle gourd, cucumber, ridge gourd etc, earthing up to be done followed by manuring; and stacking should be followed and trained on a bower system made of hemboor + sticks
			system made of bamboor + sticks.
Banana	Vegetative	HORT	 Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. Denavelling (removal of male bud) to improve bunch weight Bagging of bunches to protect against unusual rainfall.
Ginger/Turmeric	Sowing/ germination		 Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants. Mulching ginger beds with locally available leaves/materials is advocated to enhance germination
Citrus	Fruiting	Bark eating caterpillar/	 Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scab in Khasi Mandarin. Mix sticker 1ml/lit in case of rain. Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
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

Large Cardamom	Sowing		 Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months.
			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
Fishery	Fingerlings		• Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings
Cattle	All stages	FMD	 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added with little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	newly born piglets.Animals should be given lukewarm feed and water.Keep the houses dry and clean.
Poultry	All stages		 Give broad-spectrum antihelmintic drugs as per prescribed doses. Follow 'All in All out' system of rearing and do not rear birds o different age groups together. Avoid overcrowding. Provide adequate clean drinking water+electrolyte and multi vitamins 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 por vaccine and 56-70 days: RD R-2B strain.
Mithun		FMD	 Remove wet litter/provide artificial heating and light 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: 17th to 19th May 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA



(Integrated Agro-Meteorological Advisory Services)

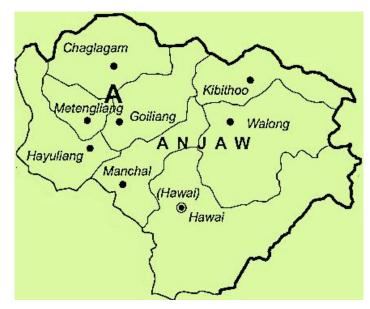


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Anjaw

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



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

Weather summery of the previous week	Weather forecast valid up to 21 st May 2017
No weather summary available	Partly cloudy with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 30-31°C and 22°C respectively. Expected morning and evening relative humidity will be 81-94% and 43-48% respectively. Wind will blow mostly E & ESE at a speed range of 3-6 kmph.
Warning:	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Soybean	Sowing		Right time for sowing of soybean
			Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay.
Rice	Seedling	Stem borer	 Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize. Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Maize	Knee height		• Carry out thinning and earthing up in maize without delay
Jhum field	Sowing		 Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
Pulses	Vegetative		Manual weeding advocated
Fuises	vegetative		Apply biosulphur @2ml/lit water to enhance yield
Pre-summer	Seedling/		• Provision of drainage to remove excess water followed by
vegetables	vegetative		 Provision of addinage to remove encess when followed by earthing up in vegetables. On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development. On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water against insect pests In cucurbitaceous crops like bottle gourd, cucumber, ridge gourd etc, earthing up to be done followed by manuring; and stacking should be followed and trained on a bower system made of bamboor + sticks.
		HOR	TICULTURAL CROPS
Orchards	Multiple stages	HOK	 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
Banana	Vegetative		 Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. Denavelling (removal of male bud) to improve bunch weight Bagging of bunches to protect against unusual rainfall.
Ginger/Turmeric	Sowing/ germination		 Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants. Mulching ginger beds with locally available leaves/materials is advocated to enhance germination
Citrus	Fruiting	Bark eating caterpillar/ Citrus scab	 Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scab in Khasi Mandarin. Mix sticker 1ml/lit in case of rain. If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it. For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
Large Cardamom	Sowing		• Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation.

			The duration of primary nursery being 3-4 months.Provide adequate drainage
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Fishery	Fingerlings		Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months age followed by annual vaccination under vet supervision again FMD
Poultry	All stages		 Follow 'All in All out' system of rearing and do not rear birds different age groups together. Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under v supervision and recommended doses. Provide adequate clean drinking water+electrolyte and multivitamins Vaccination as per the schedule with proper consultation with vet > Day old chick: HVT Marek disease vaccine, 4-7 day 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.
Cattle	All stages		 Remove wet litter 1st injection at 6-8 weeks of age, 2nd injection after 6 months of injection followed by annual vaccination under vet supervision Separate sick animals The animal should be washed with lukewarm water added willittle potash (KMnO₄) 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 mont of age and repeat after that 6 months interval by sub-cutaneo route. Pregnant animals above 7 months of pregnancy should avoided from vaccination.

Agro-met Advisory Bulletin

(Period: 17th to 19th May 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

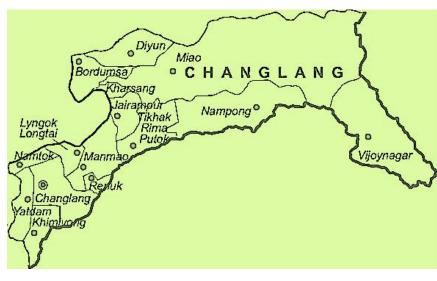


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Changlang

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



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

Weather summery of the previous week	Weather forecast valid up to 21 st May, 2017
Rainfall = Changlang: NA Miao: NA	Partly cloudy weather forecasted with moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 30-32°C and 22-23°C respectively. Expected morning and evening relative humidity will be 85-95% and 43-65% respectively. Wind direction is mainly E & SE with speed range of 2-4 kmph.
Warning	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
		1	FIELD CROPS
Soybean	Sowing		 Right time for sowing of soybean Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
Pulses	Vegetative		Apply biosulphur @2ml/lit water to enhance yield
Maize	Knee height		• Carry out thinning and earthing up in maize without delay
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 &
_	-		VR-708 can be carried out without delay.
Rice	Seedling	Stem borer	• Top dressing of urea one third of recommended dose can be
			carried out in upland/jhum rice and maize.
			• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It
			will reduce the carryover of the infestation to the main field.
			VEGETABLES
Pre-summer	Seedling/		• Provision of drainage to remove excess water followed by
vegetables	vegetative		earthing up in vegetables.
			• On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.
			 On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water
			against insect pests
			• In cucurbitaceous crops like bottle gourd, cucumber, ridge
			gourd etc, earthing up to be done followed by manuring;
			and stacking should be followed and trained on a bower
			system made of bamboor + sticks.
Banana	Vegetative	HORI	TICULTURAL CROPS
Danana	vegetative		• Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.
			• Denavelling (removal of male bud) to improve bunch
			weight
Ginger/Turmeric	Sowing/		 Bagging of bunches to protect against unusual rainfall. Disease free ginger/turmeric rhizomes of 30-40g having
Ginger/Turnerie	germination		atleast 2 eyes to be sown in finely tilth bed of 1 meter width,
			15 cm high and of convenient length at a spacing of 30 cm
			between rows and 25cm between plants.
			Mulching ginger beds with locally available
~			leaves/materials is advocated to enhance germination
Citrus	Fruiting	Bark eating caterpillar/	• Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.
		cutorpinar	 Budding method of propagation (T-budding) to commences in
			oranges using Rangpur lime as rootstock.
			• If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72
			or Fosetyl A1 paste on it.
			• For bark eating caterpillar, remove wooden frass and inject
			Dichlorovos (0.1%) @ 5ml with disposable syringe.
			• Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
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
Large Cardamom	Sowing		• Should be sown in Primary nursery bed at 2cm deep and 10
			cm apart followed by mulching & regular light irrigation.The duration of primary nursery being 3-4 months.
			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	
Fishery	Fingerlings		Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice	
			daily advocated for healthy fingerlings	
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision 	
Poultry	All stages		 Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. 	
			• Provide adequate clean drinking water+electrolyte and multi- vitamins	
			 Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days: 	
			F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days:	
			F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.	
			• Remove wet litter/provide artificial heating and light	
Cattle	All stages	FMD	• 1 st injection at 6-8 weeks of age, 2 nd injection after 6 months of 1 st injection followed by annual vaccination under vet supervision	
Contact Scien	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			



Agro-met Advisory Bulletin

(Period: 17th to 19th May 2017)

ग्रामीण कृषि मौसम सेवा

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

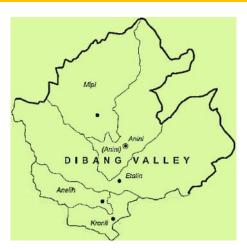


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Dibang Valley

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



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

Weather summery of the previous week	Weather forecast valid up to 21 st May, 2017
Rainfall = NA (Anini)	Partly cloudy with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 21-22°C and 12-13°C respectively. Expected morning and evening relative humidity will be 84-92% and 42-49% respectively. Wind direction is mainly ESE with speed range of 3-4 kmph.
Warning:	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
~~vP	Singe		FIELD CROPS
Soybean	Sowing		Right time for sowing of soybean
2	C		• Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
Maize	Knee height		Carry out thinning and earthing up in maize without delay
Finger millet	Sowing		 Sowing of short duration finger millet varieties like VL-324 &
Thiger minet	Sowing		• Sowing of short duration high himter varieties like vL-324 & VR-708 can be carried out without delay.
Rice	Seedling	Stem borer	Top dressing of urea one third of recommended dose can be
Riec	beeding	Stelli öörer	carried out in upland/jhum rice and maize.
			 On clear/dry weather or using sticker (@1ml/lit), spray
			Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery
			as well as in main field.
			• Cut the tips of the leaves before transplanting reduces the
			population of stem borer as the eggs are laid on that site. It
			will reduce the carryover of the infestation to the main field.
Jhum field	Sowing		Adopt sowing of leguminous crops like cowpea, frenchbean,
	C		soybean etc at 2-3 rows across the slope of jhum field at
			desirable intervals or ratios with rice to prevent soil erosion
			and conserve moisture and fertility.
			• Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
			• Cowpea variety (Kashi Kanchan) and Frenchbean variety
			(Selection-9) are advocated for intercropping as they are short
			duration, dwarf and high yielding.
		•	VEGETABLES
Pre-summer	Seedling/		• Provision of drainage to remove excess water followed by
vegetables	vegetative		earthing up in vegetables.
			• On clear/dry weather, spray Boom (organic liquid manure) @
			4ml/lit of water for proper growth and development.
			• On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water
			against insect pests
			• In cucurbitaceous crops like bottle gourd, cucumber, ridge
			gourd etc, earthing up to be done followed by manuring;
			and stacking should be followed and trained on a bower
			system made of bamboor + sticks.
Domono	Vecetative	HOR	TICULTURAL CROPS
Banana	Vegetative		• Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.
			 Denavelling (removal of male bud) to improve bunch
			weight
			Bagging of bunches to protect against unusual rainfall.
Ginger/Turmeric	Sowing/		• Disease free ginger/turmeric rhizomes of 30-40g having
	germination		atleast 2 eyes to be sown in finely tilth bed of 1 meter width,
			15 cm high and of convenient length at a spacing of 30 cm
			between rows and 25cm between plants.
			Mulching ginger beds with locally available
			leaves/materials is advocated to enhance germination
Citrus	Fruiting	Bark eating	• Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe
		caterpillar/	in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.
			• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.
			 If the citrus trees are showing oozing symptoms of gum
			then scrap the area with a sharp knife and apply
			Metalaxyl MZ-72 or Fosetyl A1 paste on it.
			• Cleaning & smearing of trunk base with Bordeaux paste
			• If flowering begins, avoid spray of insecticides/ pesticides as it
			may affect pollination process.
			• For bark eating caterpillar, remove wooden frass and

			 inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
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
Large Cardamom	Sowing		 Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. The duration of primary nursery being 3-4 months.
Apple	Vegetative	Wooly aphids	• Swab the stem with mineral oil against wooly aphid.
			Agroforestry
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
			Honey Bees
Honey bees			In case of rain provide sugar syrup LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Fishery	Fingerlings		• Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 Animals should be given lukewarm feed and water. Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision
Poultry	All stages		 Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. Provide adequate clean drinking water+electrolyte and multivitamins Vaccination as per the schedule with proper consultation with vet. ➤ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.
Cattle	All stages	FMD	 Remove wet litter/provide artificial heating and light 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795- 226237/226247			

Agro-met Advisory Bulletin

(Period: 17th to 19th May 2017)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)

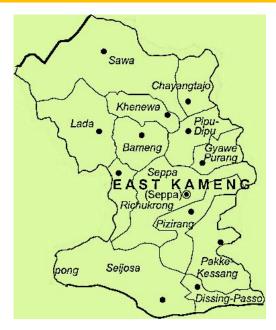


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: East Kameng

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



Weather summery of the previous week	Weather forecast valid up to 21 st May 2017
Rainfall = NA	Partly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 28-31°C and 20-21°C respectively. Expected
	morning and evening relative humidity will be 87-92% and 50-61%
	respectively. Expected wind direction is mainly NE with speed
	range of 2-4 kmph.
Warning:	Rain/thundershowers are likely in few places

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Maize	Knee height		Carry out thinning and earthing up in maize without delay
Soybean	Sowing		Right time for sowing of soybean
Soybean	Sowing		Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
Rice	Seedling	Stem borer	Top dressing of urea one third of recommended dose can be
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		carried out in upland/jhum rice and maize.
			• On clear/dry weather or using sticker (@1ml/lit), spray
			Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery
			as well as in main field.
			• Cut the tips of the leaves before transplanting reduces the
			population of stem borer as the eggs are laid on that site. It
			will reduce the carryover of the infestation to the main field.
			•
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 &
			VR-708 can be carried out without delay.
Jhum field	Sowing		Adopt sowing of leguminous crops like cowpea, frenchbean,
			soybean etc at 2-3 rows across the slope of jhum field at
			desirable intervals or ratios with rice to prevent soil erosion
			and conserve moisture and fertility.
			• Cowpea variety (Kashi Kanchan) and Frenchbean variety
			(Selection-9) are advocated for intercropping as they are short
			duration, dwarf and high yielding.
			• Carry out seed dressing/treatment with Thiram on
			Carbendazim @ 2g/kg seed before sowing
			Manual weeding advocated
Pre-summer	See dline/		VEGETABLES
vegetables	Seedling/ vegetative		<ul> <li>Provision of drainage to remove excess water followed by conthing up in vagetables</li> </ul>
vegetubles	vegetuitve		earthing up in vegetables.
			<ul> <li>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</li> </ul>
			<ul> <li>On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water</li> </ul>
			against insect pests
			<ul> <li>In cucurbitaceous crops like bottle gourd, cucumber, ridge</li> </ul>
			gourd etc, earthing up to be done followed by manuring;
		and stacking should be followed and trained on a bower	
		system made of bamboor + sticks.	
		HORT	TICULTURAL CROPS
Banana Vegetative	Vegetative		• Planting of banana making pit maintaining at a spacing of 2.5
		X 2.5 meter plant to plant and row to row distance.	
		Denavelling (removal of male bud) to improve bunch	
		weight	
Citrus	Fruiting	Bark eating	<ul> <li>Bagging of bunches to protect against unusual rainfall.</li> <li>Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe</li> </ul>
	caterpillar/	in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.	
		<ul> <li>Budding method of propagation (T-budding) to commences in</li> </ul>	
		oranges using Rangpur lime as rootstock.	
		• If the citrus trees are showing oozing symptoms of gum	
		then scrap the area with a sharp knife and apply	
		Metalaxyl MZ-72 or Fosetyl A1 paste on it.	
			<ul> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as it</li> </ul>
			<ul> <li>In howering begins, avoid spray of insecticides/ pesticides as in may affect pollination process.</li> </ul>
			• For bark eating caterpillar, remove wooden frass and
			inject Dichlorovos (0.1%) @ 5ml with disposable syringe.
			• Dead wood on the citrus trees should be kept pruned,
			about 2cm, below the dead portion.

Orchards Large Cardamom	Sowing/ germination		<ul> <li>Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> <li>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</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 land/plain areas to avoid water stagnation in fruit orchards</li> <li>Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>The duration of primary nursery being 3-4 months.</li> </ul>
			Agroforestry
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Fishery	Fingerlings		• Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul> <li>Animals should be given lukewarm feed and water.</li> <li>Keep the houses dry and clean.</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Avoid overcrowding.</li> <li>Provide adequate clean drinking water+electrolyte and multivitamins</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/provide artificial heating and light</li> </ul>
			• Best time to prepare the culture pond like cleaning aquatic weeds
Fishery			
Fishery Cattle	All stages	FMD	• 1 st injection at 6-8 weeks of age, 2 nd injection after 6 months of 1 st injection followed by annual vaccination under vet supervision

# **Agro-met Advisory Bulletin**

( Period: 17th to 19th May 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**

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



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

Weather summery of the previous week	Weather forecast valid up to 21 st May 2017
Rainfall: NA; T. Max: NA; T. Min: NA; RH:	Partly cloudy with possibility of moderate rainfall. Daily
NA	maximum and minimum temperature for the following period is
	predicted to be 30-32°C and 21-22°C respectively. Expected
	morning and evening relative humidity will be 88-90% and 42-66%
	respectively. Expected wind direction is mainly WNW with speed
	range of 2-4 kmph.
Warning:	Rain/thundershowers are likely in few places

### Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Soybean	Sowing		<ul> <li>Right time for sowing of soybean</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing</li> </ul>
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay.
Maize	Knee height		• Carry out thinning and earthing up in maize without delay
Pulses	Vegetative		Apply biosulphur @2ml/lit water to enhance yield
Rice	Seedling	Stem borer	<ul> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Jhum field	Sowing		<ul> <li>Manual weeding advocated</li> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing to avoid fungal infections during rainy days</li> </ul>
			VEGETABLES
Pre-summer vegetables	Seedling/ vegetative		<ul> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</li> <li>On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water against insect pests</li> <li>In cucurbitaceous crops like bottle gourd, cucumber, ridge gourd etc, earthing up to be done followed by manuring; and stacking should be followed and trained on a bower system made of bamboor + sticks.</li> </ul>
		HORT	TCULTURAL CROPS
Banana	Vegetative		<ul> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> <li>Denavelling (removal of male bud) to improve bunch weight</li> <li>Bagging of bunches to protect against unusual rainfall.</li> </ul>
Ginger/Turmeric	Sowing/ germination		<ul> <li>Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> <li>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</li> </ul>
Citrus	Fruiting	Bark eating caterpillar/	<ul> <li>Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> </ul>

			• Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
Orchards Large Cardamom	Sowing		<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> <li>Should be sown in Primary nursery bed at 2cm deep and 10</li> </ul>
	Jowing		<ul> <li>Should be sown in Frinary hursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>The duration of primary nursery being 3-4 months.</li> </ul>
			Honey Bees
Honey bees			On prolong rain, provide sugar syrup
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Fishery	Fingerlings		• Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice
			daily advocated for healthy fingerlings
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• 1 st injection at 6 months of age and 2 nd injection at 12 months of age followed by annual vaccination under vet supervision
Poultry	All stages		<ul> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Provide adequate clean drinking water+electrolyte and multivitamins</li> <li>Give broad-spectrum antihelmintic drugs as per prescribed 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/provide artificial heating and light</li> </ul>
Cattle	All stages	FMD	• 1 st injection at 6-8 weeks of age, 2 nd injection after 6 months of 1 st injection followed by annual vaccination under vet supervision
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

# **Agro-met Advisory Bulletin**

(Period: 17th to 19th May 2017)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

## **District: Kurung Kumey**

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



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

Weather summery of the previous week	Weather forecast valid up to 21 st May 2016
Past weather summary not available	Variable weather with possibility of light/moderate rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 31-33°C and 21-23°C respectively. Expected
	morning and evening relative humidity will be 90-91% and 54-71%
	respectively. Wind direction is mainly E with speed range of 2-4
	kmph.
Warning	Rain/thundershowers are likely in few places

### Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Soybean	Sowing		Right time for sowing of soybean
			Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
Maize	Knee height		• Carry out thinning and earthing up in maize without delay
Finger millet	Sowing		<ul> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>
Rice	Seedling	Stem borer	<ul> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Jhum field	Sowing		<ul> <li>Manual weeding advocated</li> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing</li> </ul>
Pea	Seedling		Provide proper drainage to already sown crops
1 cu	Security		
Pre-summer	Seedling/		• Provision of drainage to remove excess water followed by
vegetables	vegetative		<ul> <li>earthing up in vegetables.</li> <li>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</li> <li>On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water against insect pests</li> <li>In cucurbitaceous crops like bottle gourd, cucumber, ridge gourd etc, earthing up to be done followed by manuring; and stacking should be followed and trained on a bower system made of bamboor + sticks.</li> </ul>
		HORT	ICULTURAL CROPS
Banana	Vegetative		<ul> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> <li>Denavelling (removal of male bud) to improve bunch weight</li> <li>Bagging of bunches to protect against unusual rainfall.</li> </ul>
Ginger/Turmeric	Sowing/ germination		<ul> <li>Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> <li>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</li> </ul>
Citrus	Fruiting	Bark eating caterpillar/	<ul> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> <li>Dead wood on the citrus trees should be kept pruned,</li> </ul>

Sowing		<ul> <li>Should be sown in Primary nursery bed at 2cm deep and 1 cm apart followed by mulching &amp; regular light irrigation.</li> <li>The duration of primary nursery being 3-4 months.</li> </ul> Honey Bees
		• Box must be covered with straw/dry leaves to provide
		warmth
		LIVESTOCKS
Stage	Disease	Precautionary Practices to be followed
0	Disease	
ingernings		<ul> <li>Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice doily advocated for healthy fingerlings</li> </ul>
A 11 - 4	EMD	daily advocated for healthy fingerlings
All stages	FMD	<ul> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> </ul>
		• The animal should be washed with lukewarm water added wi little potash (KMnO ₄ ) or neem leaves
		• Long hair near the udder/stomach/back legs should be teams short.
All stages	and appearance of mucous	<ul> <li>newly born piglets.</li> <li>Animals should be given lukewarm feed and water.</li> <li>All animals should be tethered in a covered shelter. Keep th houses dry and clean.</li> <li>1st injection at 6 months of age and 2nd injection at 12 months</li> </ul>
All stages		<ul> <li>age followed by annual vaccination under vet supervision</li> <li>Follow 'All in All out' system of rearing and do not rear birds different age groups together.</li> <li>Avoid overcrowding.</li> </ul>
		• Provide adequate clean drinking water+electrolyte and multivitamins
		<ul> <li>Vaccination as per the schedule with proper consultation with vet</li> <li>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 povaccine and 56-70 days: RD R-2B strain.</li> </ul>
		Remove wet litter/provide artificial heating and light
	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
	All stages	All stages       FMD         All stages       FMD (high fever and appearance of mucous membrane of the mouth and foot.)         All stages       All stages

# **Agro-met Advisory Bulletin**

( Period: 17th to 19th May 2017)



ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA** 

(Integrated Agro-Meteorological Advisory Services)

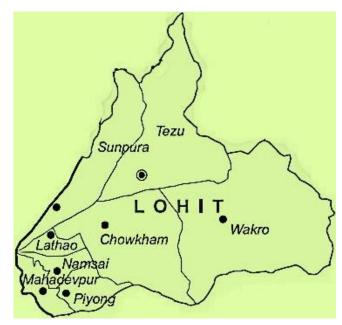


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

## **District:** Lohit

<u>No: 39/2017/Tue</u>

Dated: 16th May, 2017



Weather summery of the previous week	Weather forecast valid up to 21 st May, 2017
Rainfall =NA (Tezu)	Partly cloudy weather with possibility of moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 29-31°C and 21-22°C respectively. Expected morning
	and evening relative humidity will be 82-94% and 42-56%
	respectively. Wind direction is E with speed range of 3-4 kmph.
Warning:	Rain/thundershowers are likely in few places

### Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	<b>Pest/Disease</b>	Precautionary Practices to be followed
			FIELD CROPS
Maize	Knee height		• Carry out thinning and earthing up in maize without delay
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay.
Rice	Seedling	Stem borer	<ul> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
		1	VEGETABLES
Pre-summer vegetables	Seedling/ vegetative		<ul> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</li> <li>On clear day, spray Azadirachtin 0.15EC@ 6ml/lit water against insect pests</li> <li>In cucurbitaceous crops like bottle gourd, cucumber, ridge gourd etc, earthing up to be done followed by manuring; and stacking should be followed and trained on a bower system made of bamboor + sticks.</li> </ul>
I		HORT	ICULTURAL CROPS
Ginger/Turmeric Citrus	Sowing/ germination	Bark eating caterpillar/	<ul> <li>Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> <li>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</li> <li>Spray of Difenocomazole 25EC@0.05% against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> </ul>
Banana	Vegetative		<ul> <li>about 2cm, below the dead portion.</li> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> <li>Denavelling (removal of male bud) to improve bunch weight</li> <li>Bagging of bunches to protect against unusual rainfall</li> </ul>
Orchards			<ul> <li>Bagging of bunches to protect against unusual rainfall.</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 land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
Large Cardamom	Sowing		<ul> <li>Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>The duration of primary nursery being 3-4 months.</li> </ul>
			Honey Bees
Honey bees			<ul> <li>Provide sugar syrup near the box</li> <li>Add insulation and ventilation systems</li> </ul>

		LIVESTOCKS
Stage	Disease	Precautionary Practices to be followed
Fingerlings		• Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice
		daily advocated for healthy fingerlings
All stages	of mucous membrane of the	<ul> <li>Animals should be given lukewarm feed and water.</li> <li>Keep the houses dry and clean.</li> <li>1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
All stages		<ul> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Avoid overcrowding.</li> <li>Provide adequate clean drinking water+electrolyte and multivitamins</li> <li>Give broad-spectrum antihelmintic drugs as per prescribed 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 pot vaccine and 56-70 days: RD R-2B strain.</li> <li>Remove wet litter/provide artificial heating and light</li> </ul>
All stages	+ +	<ul> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1 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 teamer short.</li> </ul>
	Fingerlings All stages All stages	StageDiseaseFingerlingsImage: Constraint of the stagesAll stagesFMD (high fever and appearance of mucous membrane of the mouth and foot.)All stagesImage: Constraint of the mouth and foot.)