Agro-met Advisory Bulletin

(Period: 28th April to 2nd 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 Dibang Valley

No: 34/2017/Fri

Dated: 28th April, 2017



Weather summery of the previous week	Weather forecast valid up to 2 nd May, 2017
Rainfall = 30.5 mm (Roing)	Partly cloudy weather with possibility of moderate/heavy
	rainfall. Daily maximum and minimum temperature for the
	following period is predicted to be 24-25°C and 19-20°C
	respectively. Expected morning and evening relative humidity will be
	87-97% and 52-88% respectively. Wind direction is East with speed
	range of 4-6 kmph.
Warning:	Heavy rainfall very likely on 25 th April

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

Cuan	Store	Doct/Diagona	Drocoutionary Droctices to be fellowed
Crop	Stage	Pest/Disease	Precautionary Practices to be followed FIELD CROPS
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 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 spacing of 20X15cm.
Maize	Seedling/ Knee height		• Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field
Pea	Sowing		 Sowing of pea recommended for higher altitudes with raised bed of 15-20cm Provide proper drainage to already sown crops
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
Cole crops	Nursery		Raising nursery can be carried out in higher altitudes/ cold areas
Pre-summer vegetables	Sowing/ Seedling	Nursery insects	 Sowing of pre-summer vegetables like okra, frenchbean etc advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha
		HORT	TCULTURAL 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.
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 / Fruiting	Bark eating caterpillar	 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 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.
Ginger/Turmeric	Sowing		 Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw Keep selected rhizomes for planting material in partial shade for better sprouting. Mulching materials like forest litters or crop residues should be collected in advance Land preparation to a fine tilth to be done before sowing during sunny days Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants.
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
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
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.
Fishery			Best time to prepare the culture pond like cleaning aquatic weeds
·	tists (ICAR) or	State Agril Staff	For KVK staff for measures against adverse conditions or call

at 03795-226237/226247

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

Agro-met Advisory Bulletin

(Period: 28th April to 2nd 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

No: 34/2017/Fri

Dated: 28th April, 2017



Weather summery of the previous week	Weather forecast valid up to 2 nd May 2017
Rainfall = 0.0 mm (Ziro)	Partly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 25-27°C and 19-20°C respectively. Expected
	morning and evening relative humidity will be 94-96% and 64-82%
	respectively. Wind direction is variable with speed range of 2-3
	kmph.
Warning:	Heavy rainfall very likely on 28 th April, 1 st & 2 nd May

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
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 Sowing/ 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 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 spacing of 20X15cm. Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing • Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field
	T ~		VEGETABLES
Pre-summer vegetables	Sowing / Seedling	Nursery insects	 Sowing of pre-summer vegetables like okra, frenchbean etc advocated Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha
		HORT	ICULTURAL CROPS
Banana Orchards	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. 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	 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 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.

			seedlings from ICAR Basar or KVK West Siang/Anjaw
			• Keep selected rhizomes for planting material in partial shade
			for better sprouting.
			 Mulching materials like forest litters or crop residues should be collected in advance
			 Land preparation to a fine tilth to be done before sowing
			during sunny days
			• Disease free ginger/turmeric rhizome of 30-40 g having atleast
			2 eyes to be sown in finely tilth bed of 1m width, 15 cm high
			and of convenient length at a spacing of 30cm between rows
T C 1	g :		and 25 cm between plants.
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.
Kiwi	Planting		Pit size: 60cmX60cmX60cm
			• Spacing: 6mX4m (Plant to plant and row to row)
			• In kiwi the male and female plants are borne on different
			vines. So a male plant is provided for pollination of 6-8 plants
			at every third plant from the second row.Pit filling: mixture of top soil, 20-30kg FYM along with
			chloropyriphos@25-30g/pit (to avoid insect damage)
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
** 1	I	I	Honey Bees
Honey bees			Box must be covered with straw/dry leaves to provide
			warmth LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Pigs	All stages	FMD (high fever	
		and appearance	
		of mucous	• 1 st injection at 6 months of age and 2 nd injection at 12 months of
		membrane of the mouth and foot.)	age followed by annual vaccination under vet supervision
Poultry	All stages	mouth and root.)	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 along dripking yesters electrolyte and multi-
			 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.
Fishows			Remove wet litter/provide artificial heating and light Dest time to prepare the culture round like cleaning equations as
Fishery Cattle	All stages	FMD	 Best time to prepare the culture pond like cleaning aquatic weeds 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st
Came	All stages	LIMID	• 1 st injection at 6-8 weeks of age, 2 ^{sta} injection after 6 months of 1 st injection followed by annual vaccination under vet supervision
			• Separate sick animals
			• The animal should be washed with lukewarm water added with
			 little potash (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed
	ĺ		short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months
Mithun		FMD	of age and repeat after that 6 months interval by sub-cutaneous
Mithun		FMD	of age and repeat after that 6 months interval by sub-cutaneous route.
	tists (ICAR) or		of age and repeat after that 6 months interval by sub-cutaneous

Agro-met Advisory Bulletin

(Period: 28th April to 2nd May 2017)

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Papum Pare

No: 34/2017/Fri

Dated: 28th April, 2017



Weather summery of the previous week	Weather forecast valid up to 2 nd May 2017
Rainfall: 109.8 mm; T. Max: 29.0°C; T. Min:	
19.0°C ; RH: 81-96%	Daily maximum and minimum temperature for the following period
	is predicted to be 28-29°C and 19-20°C respectively. Expected morning and evening relative humidity will be 93-97% and 50-70%
	respectively. Expected wind direction is ENE with speed range of 2-
	4 kmph.
Warning:	Heavy rainfall very likely on 28 th April, 1 st & 2 nd May

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
7.			FIELD CROPS
Rice	Seedling Sowing/ 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 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 spacing of 20X15cm. Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or
			 Carly out seed dressing treatment with Tilifain of Carbendazim @ 2g/kg seed before sowing Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum 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 Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
7		T	VEGETABLES
Pre-summer vegetables	Sowing /Seedling	HORT	 Sowing of pre-summer vegetables like French bean, capsicum etc advocated, avoid during rainy days. Seed treatment with Imidichloropid @ 1-2g/10kg is recommended before sowing
Orchards			Prepare half moon terraces in fruit crops
Banana	Vegetative		 (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.
Citrus	Flowering/ Fruiting	Bark eating caterpillar	 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 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.
Ginger/Turmeric	Sowing		 Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw Keep selected rhizomes for planting material in partial shade for better sprouting. Mulching materials like forest litters or crop residues should be collected in advance

Large Cardamom Toko palm	Sowing		 Land preparation to a fine tilth to be done before sowing during sunny days Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. 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 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
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.)	
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
Fishery			Best time to prepare the culture pond like cleaning aquatic weeds
Mithun Contact Scien	tists (ICAD) or	FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. For KVK staff for measures against adverse conditions or call
Contact Scien	usis (ICAR) Of		3795-226237/226247

Agro-met Advisory Bulletin

(Period: 28th April to 2nd 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

No: 34/2017/Fri

Dated: 28th April, 2017



Weather summery of the previous week	Weather forecast valid up to 2 nd May 2017
Rainfall = 80.0 mm	Partly cloudy weather with possibility of moderate rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 16-17°C and 6-7°C respectively. Expected
	morning and evening relative humidity will be 78-83% and 53-57%
	respectively. Wind direction is variable with probable speed range
	of 4-7 kmph.
Warning:	Heavy rainfall very likely on 28th April, 1st & 2nd May

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease		Precautionary Practices to be followed
Dies	G 111'		FIELD	CROPS
Rice	Seedling Sowing/	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 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 spacing of 20X15cm. Sowing of Maize advocated
	Seedling		•	Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field
Jhum field	Sowing		VICONII.	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
Cole crops	Nursery	<u> </u>	VEGE	Raising nursery can be carried out in higher altitudes/ cold
Pre-summer	Sowing	Nursery insects	•	areas Provide adequate drainage to already sown crops Right time for transplanting the ready seedlings of chili,
vegetables	/Seedling	WORK	•	tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects
Orchards	I	HORT	<u>ICULT</u>	TURAL CROPS
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 Desuckering (removing excess numbers of suckers arising
				from the mother plant) should be followed
Citrus	Flowering	Bark eating caterpillar	•	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 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.
Apple	Vegetative	Wooly aphids	Swab the stem with mineral oil against wooly aphid.
	1		Agroforestry
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
			Honey Bees
Honey bees			 Provide sugar syrup near the box
			Add insulation and ventilation systems
	<u>, </u>		LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
Pigs	All stages	FMD (high fever	Animals should be given lukewarm feed and water.
		and appearance	• Keep the houses dry and clean.
		of mucous	• 1 st injection at 6 months of age and 2 nd injection at 12 months of
		membrane of the mouth and foot.)	age followed by annual vaccination under vet supervision
Poultry	All stages	mount and root.)	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 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
Fishery			Best time to prepare the culture pond like cleaning aquatic weeds.
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 (KMnO ₄) or neem leaves
			• Long hair near the udder/stomach/back legs should be teamed
			short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months
			of age and repeat after that 6 months interval by sub-cutaneous
			route.
	AL A (ICAD)		• Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scien	ntists (ICAR) or	U	For KVK staff for measures against adverse conditions or call 3795-226237/226247

Agro-met Advisory Bulletin

(Period: 28th April to 2nd May 2017)

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Tirap

No No: 34/2017/Fri

Dated: 28th April, 2017



Weather summery of the previous week	Weather forecast valid up to 2 nd May, 2017
Rainfall = 22.0 mm (Deomali)	Partly cloudy with possibility of light/moderate rainfall in most
	of the places. Daily maximum and minimum temperature for the
	following period is predicted to be 28-30°C and 19°C respectively.
	Expected morning and evening relative humidity will be 92-96%
	and 52-63% respectively. Wind direction is SSE & Swith speed
	range of 2 kmph.
Warning:	Heavy rainfall very likely on 28th April, 1st & 2nd May

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Seedling Sowing/ 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 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 spacing of 20X15cm. Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
			Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum 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. 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
Day	Carrina	Nisassassiassas	VEGETABLES
Pre-summer vegetables	Sowing /Seedling	Nursery insects	 Sowing of pre-summer vegetables like okra, frenchbean etc advocated, avoid during rainy days Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing
		HORT	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.
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	 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 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.
Ginger/Turmeric	Sowing		Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw

			 Keep selected rhizomes for planting material in partial shade for better sprouting. Mulching materials like forest litters or crop residues should be collected in advance Land preparation to a fine tilth to be done before sowing during sunny days
			• Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants.
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
			Box must be covered with straw/dry leaves to provide warmth
			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.)	• 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		 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
Fishery			Best time to prepare the culture pond like cleaning aquatic weeds
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 Scien	tists (ICAR) or	State Agril Staff	f or KVK staff for measures against adverse conditions or call

Agrometeorological Field Unit ICAR, BASAR

at 03795-226237/226247

Agro-met Advisory Bulletin

(Period: 28th April to 2nd May 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Upper Siang

No: 34/2017/Fri

Dated: 28th April, 2017



Weather summery of the previous week	Weather forecast valid up to 2 nd May, 2017
Rainfall = 206.0 mm (Tuting)	Partly cloudy sky with possibility of light/moderate rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 23-25°C and 18-20°C respectively. Expected
	morning and evening relative humidity will be 72-85% and 49-67%
	respectively. Wind direction is ESE with speed range of 4 kmph.
Warning:	Heavy rainfall very likely on 28th April, 1st & 2nd May

Weather Based Agro-meteorological Advisories Bulletin

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

Crop Stage Pest/Disease Precautionary Practices to be followed						
FIELD CROPS						

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 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 spacing of 20X15cm.
Pea	Sowing/ Seedling		 Sowing of pea recommended for higher altitudes with raised bed of 15-20cm Provide proper drainage to already sown crops
Maize	Sowing/ Seedling		 Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum 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. 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	Sowing/ Seedling	Nursery insects	 Sowing of pre-summer vegetables like okra, frenchbean etc advocated, avoid during rainy days. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha
Danana	Vagatativa	HUKI	
Banana Orchards	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. 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/ Fruiting	Bark eating caterpillar	 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 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.
Ginger/Turmeric	Sowing		 Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw Keep selected rhizomes for planting material in partial shade for better sprouting. Mulching materials like forest litters or crop residues should be collected in advance Land preparation to a fine tilth to be done before sowing during sunny days Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants.
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 Provide sugar syrup
T: 4 1	G4	D:	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.)	 Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of
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			Best time to prepare the culture pond like cleaning aquatic weeds
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 Scien	tists (ICAR) or		f or KVK staff for measures against adverse conditions or call 3795-226237/226247



Agro-met Advisory Bulletin

(Period: 28th April to 2nd May 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

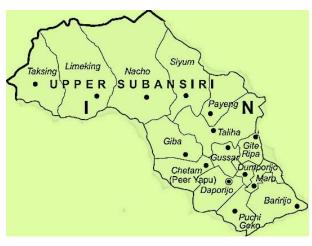


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Upper Subansiri

No: 33/2017/Tue

Dated: 25th April, 2017



Weather summery of the previous week	Weather forecast valid up to 2 nd May 2017
Rainfall = 0.0 mm (Puchi Geko); Daporijo:	Partly cloudy with possibility of light/moderate rainfall in most
28.8 mm	of the places. Daily maximum and minimum temperature for the
	following period is predicted to be 25-26°C and 19-20°C
	respectively. Expected morning and evening relative humidity will
	be 91-95% and 65-87% respectively. Expected wind direction is
	mainly SE & ESE with speed range of 2-3 kmph.
Warning	Heavy rainfall very likely on 28 th April, 1 st & 2 nd May

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

Seedling Stem borer	Crop	Stage	Pest/Disease	Precautionary Practices to be followed
population of stem borer as the eggs are laid on that site will reduce the carryover of the infestation to the main field. Careful timing of planting can avoid damage; once tillering stage is over, attack of some insects reduces. Follow clean cultivation, presence of grasses near the recorp favors build-up of pest population Seedling root dip treatment in 0.02% of Chlorpyripl 20EC for 12 hours before transplanting protects the crop for 20 to 30 days Avoid closer spacing while transplantation which crea favorable microclimate for pests in the field. Follow wis spacing of 20X15cm. Maize Sowing/ Seedling Sowing of Maize advocated Carry out seed dressing/treatment with Thiram Carbendazim@2g/kg seed before sowing. Follow time isolation of atleast 15 days for two or me different varieties of maize in Jhum field. Sowing of Paize recommended for higher altitudes with rais bed of 15-20cm Provide proper drainage to already sown crops Jhum field Sowing Adopt sowing of leguminous crops like cowpea, frenchbe soybean et at 2-3 rows across the slope of jhum field desirable intervals or ratios with rice to prevent soil eros and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean vari (Selection-9) are advocated for intercropping as they are she duration, dwarf and high yielding. Carbendazim@2g/kg seed before sowing VEGETABLES Pre-summer Seedling Presummer Seedling Provide proper drainage to newly transplanted seedlings a follow raised bed for sowing HORTICULTURAL CROPS Prepare half moon terraces in fruit crop coranges using hanguit maintaining at a spacing of 2 X 2.5 meter plant to plant and row to row distance. Prepare half moon terraces in fruit crop coranges using Ranguer line as rootsteed. Provide proper drainage and earthing up practices in 1 land/plain areas to avoid water stagnation in fruit orchards. Provide proper drainage and earthing up practices in 1 land/plain areas to avoid water stagnation in fruit orchards. Provide proper drainage and earthing up practices in 1				FIELD CROPS
Follow time isolation of atleast 15 days for two or modifferent varieties of maize in Jhum field		Sowing/	Stem borer	 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 spacing of 20X15cm. Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or
Pea Sowing Sowing of pea recommended for higher altitudes with raise bed of 15-20cm Provide proper drainage to already sown crops Jhum field Sowing Adopt sowing of leguminous crops like cowpea, frenchbe soybean et at 2-3 rows across the slope of jhum field desirable intervals or ratios with rice to prevent soil eros and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean vari (Selection-9) are advocated for intercropping as they are she duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram Carbendazim @ 2g/kg seed before sowing VEGETABLES Pre-summer vegetables Presummer vegetables Provide proper drainage to newly transplanted seedlings a follow raised bed for sowing HORTICULTURAL CROPS Banana Vegetative Planting of banana making pit maintaining at a spacing of 2 X 2.5 meter plant to plant and row to row distance. Prepare half moon terraces in fruit cross (orange/banana/apple/peach) grown in steep slopes to prevenutrient loss during heavy downpour. Prollow proper drainage and earthing up practices in I land/plain areas to avoid water stagnation in fruit orchards Citrus Flowering/ Fruiting Bark eating Fruiting Provide proper drainage to newly transplanted seedlings a follow raised bed for sowing Provide proper drainage and earthing up practices in I land/plain areas to avoid water stagnation in fruit orchards Budding method of propagation (T-budding) to commences oranges using Rangpur lime as rootstock.				Follow time isolation of atleast 15 days for two or more
Bed of 15-20cm	Pea	Sowing		
Sowing Adopt sowing of leguminous crops like cowpea, frenched soybean etc at 2-3 rows across the slope of jhum field desirable intervals or ratios with rice to prevent soil eros and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean vari (Selection-9) are advocated for intercropping as they are she duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram Carbendazim @ 2g/kg seed before sowing VEGETABLES		22		
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Orchards Prepare half moon terraces in fruit cree (orange/banana/apple/peach) grown in steep slopes to prevenutrient loss during heavy downpour. Follow proper drainage and earthing up practices in I land/plain areas to avoid water stagnation in fruit orchards Flowering/ Bark eating Fruiting caterpillar Budding method of propagation (T-budding) to commences oranges using Rangpur lime as rootstock.		,	HORT	ICULTURAL CROPS
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Citrus Flowering/ Bark eating Fruiting Caterpillar Iand/plain areas to avoid water stagnation in fruit orchards Budding method of propagation (T-budding) to commences oranges using Rangpur lime as rootstock.	Orchards			(orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.
Fruiting caterpillar oranges using Rangpur lime as rootstock.				
 If flowering begins, avoid spray of insecticides/ pesticides a may affect pollination process. Spray (Planofix) NAA based growth regulator @2m/5lit wa during flowering stage in orange plant to reduce fruit/flow drop 	Citrus	•	_	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
inject Dichlorovos (0.1%) @ 5ml with disposable syringe				 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.
Ginger/Turmeric Sowing • Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw	Ginger/Turmeric	Sowing		Identify healthy plants for seed rhizomes/ collect better
				Keep selected rhizomes for planting material in partial shade
				Mulching materials like forest litters or crop residues should

Large Cardamom Banana Apple	Sowing Bunching Vegetative	Cold Wooly aphids	 be collected in advance Land preparation to a fine tilth to be done before sowing during sunny days Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. 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. Timely/regular removal of extra suckers, dry leaves & pseudosteam Swab the stem with mineral oil against wooly aphid.
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
			Honey Bees
Honey bees			Provide sugar syrup near the box
			Add insulation and ventilation systems
T incomé o alla	C4	Discours	LIVESTOCKS Description and Description As he followed
Livestock Cattle	Stage All stages	Disease FMD	 Precautionary Practices to be followed 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.)	 Provide adequate bedding material (paddy straw, rice husk) to newly born piglets. Animals should be given lukewarm feed and water. All animals should be tethered in a covered shelter. Keep the
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			Best time to prepare the culture pond like cleaning aquatic weeds
Cattle	All stages	FMD FMD	 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scien	tists (ICAR) or	_	f or KVK staff for measures against adverse conditions or call 3795-226237/226247

Agro-met Advisory Bulletin

(Period: 28th April to 2nd May 2017)

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: West Kameng

No: 34/2017/Fri

Dated: 28th April, 2017



Weather summery of the previous week	Weather forecast valid up to 2 nd May 2017
Rainfall = Bomdila: 0.0 mm; Bhalukpong:	Partly cloudy weather with possibility of moderate rainfall.
33.0 mm	Daily maximum and minimum temperature for the following period
	is predicted to be 18-19°C and 10-11°C respectively. Expected
	morning and evening relative humidity will be 89-91% and 55-63%
	respectively. Wind direction is ENE with speed range of 4-5 kmph.
Warning:	Heavy rainfall very likely on 28 th April, 1 st & 2 nd May

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
7.	0 111		
Rice	Seedling	Stem borer	 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. 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
Maize	Sowing/ Seedling		 spacing of 20X15cm. Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field
Pea	Sowing		Sowing of pea recommended for higher altitudes with raised
	2000		 bed of 15-20cm Provide proper drainage to already sown crops
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
			VEGETABLES
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.
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/ Fruiting	Bark eating caterpillar	 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 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.
Ginger/Turmeric	Sowing		 Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw Keep selected rhizomes for planting material in partial shade for better sprouting. Mulching materials like forest litters or crop residues should be collected in advance

			• I and managed in to a fine tilth to be done before coving
			 Land preparation to a fine tilth to be done before sowing during sunny days
			 Disease free ginger/turmeric rhizome of 30-40 g having atleast
			2 eyes to be sown in finely tilth bed of 1m width, 15 cm high
			and of convenient length at a spacing of 30cm between rows
			and 25 cm between plants.
Cole crops	Nursery		Raising nursery can be carried out in higher altitudes/ cold
Y	, and y		areas
Pre-summer	Sowing	Nursery insects	Sowing of pre-summer vegetables like okra, frenchbean etc
vegetables			advocated, avoid during rainy days
			• Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing.
			• Right time for transplanting the ready seedlings of chili,
			tomato, capsicum etc.
			Provide proper drainage to newly transplanted seedlings and
			follow raised bed for sowing
			• Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500
			litres water/ha
		HORT	ICULTURAL CROPS
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	 The duration of primary nursery being 3-4 months. Swab the stem with mineral oil against wooly aphid.
Търге	v egetative	woory apmas	5 was the stem with mineral on against woory apind.
			Honey Bees
Honey bees			Provide sugar syrup near the box
			Add insulation and ventilation systems
			Y WYDGDO GYYG
	g.		LIVESTOCKS
T • 4 1			
Livestock	Stage	Disease	Precautionary Practices to be followed
Cattle	All stages	FMD	• 1 st injection at 6-8 weeks of age, 2 nd injection after 6 months of 1 st
			• 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
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		FMD (high fever	 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. Animals should be given lukewarm feed and water.
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Cattle	All stages	FMD (high fever and appearance of mucous membrane of the	 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. Animals should be given lukewarm feed and water.
Cattle	All stages All stages	FMD (high fever and appearance of mucous	 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. 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
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Pigs Poultry Fishery	All stages All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	 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. 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 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 Best time to prepare the culture pond like cleaning aquatic weeds
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Pigs Poultry Fishery Mithun	All stages All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) 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. 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 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 Best time to prepare the culture pond like cleaning aquatic weeds 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.
Pigs Poultry Fishery Mithun	All stages All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) FMD 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. 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 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 Best time to prepare the culture pond like cleaning aquatic weeds Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.

 $Contact: \hbox{-} \ \underline{IAAS.BASAR@gmail.com}, Phone \ Number: \hbox{-} \ 03795\hbox{-} 226247/37, \hbox{-} 96 \ (Fax)$

Agro-met Advisory Bulletin

(Period: 28th April to 2nd 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 Siang

No: 34/2017/Fri Dated: 28th April, 2017



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

Weather summery of the previous week	Weather forecast valid up to 2 nd May 2017
Rainfall = 93.0 mm. T. Max: 23.2°C, T.	Partly cloudy with possibility of light/moderate rainfall in most
Min: 16.0°C, RH: 82-94%, Wind Speed: 5-6	of the places. Daily maximum and minimum temperature for the
kmph, Wind Direction: SE	following period is predicted to be 25-26°C and 19-20°C
	respectively. Expected morning and evening relative humidity will
	be 88-94% and 61-86% respectively. Wind direction is mainly S
	with speed range of 2-4 kmph.
Warning:	Heavy rainfall very likely on 28th April, 1st & 2nd May

Weather Based Agro-meteorological Advisories Bulletin

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



Crop	Stage	Pest/Disease		Precautionary Practices to be followed
			FIELD	
Rice	Seedling Seedling/Knee height	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 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 spacing of 20X15cm. Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
			•	Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum 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. 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
7	G 11:		VEGE'	<u> </u>
Pre-summer vegetables	Seedling	Nursery insects	•	Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing
		HORT	ICULT	TURAL 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.
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
Banana			•	Desuckering (removing excess numbers of suckers arising from the mother plant) should be followed
Citrus	Flowering/fruitin g	Bark eating caterpillar	•	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 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.
Ginger/Turmeric	Sowing		•	Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw Keep selected rhizomes for planting material in partial shade for better sprouting.
			•	Mulching materials like forest litters or crop residues should be collected in advance

Large Cardamom Honey bees	Sowing		 during sunny days Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. 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
			Provide sugar syrup
Toko nolm	Numaany		Agroforestry
Toko palm	Nursery		 Filling of nursery polybags for raising of takopalm seedlings
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
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.)	 Provide adequate bedding material (paddy straw, rice husk) to newly born piglets. 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
Fishery			Best time to prepare the culture pond like cleaning aquatic weeds
Mithun		FMD	 Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scien	tists (ICAR) or		or KVK staff for measures against adverse conditions or call 3795-226237/226247

Agro-met Advisory Bulletin

(Period: 28th April to 2nd May 2017)

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

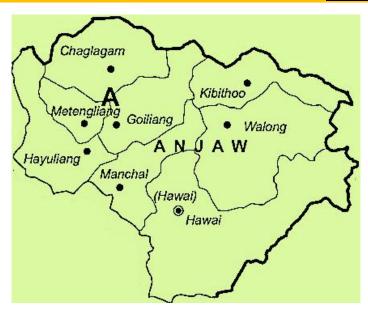


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Anjaw

No: 34/2017/Fri

Dated: 28th April, 2017



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

Weather summery of the previous week	Weather forecast valid up to 2 nd May 2017
No weather summary available	Partly weather with possibility of moderate/rather heavy
	rainfall. Daily maximum and minimum temperature for the
	following period is predicted to be 24-26°C and 17-19°C
	respectively. Expected morning and evening relative humidity will
	be 79-93% and 49-55% respectively. Wind will blow mostly from E
	at a speed range of 4-6 kmph.
Warning:	Heavy rainfall very likely on 28 th April, 1 st & 2 nd May

Weather Based Agro-meteorological Advisories Bulletin

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



Crop	Stage	Pest/Disease	Precautionary Practices to be followed
_	3		FIELD CROPS
Rice	Seedling		 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 spacing of 20X15cm.
Pea	Seedling		Provide proper drainage to already sown crops
Maize	Knee Height		Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field
Jhum field	C		Provide proper drainage.
Jnum Heid	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. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short
			duration, dwarf and high yielding.
D.,,	C 411	Name	VEGETABLES
Pre-summer vegetables	Seedling	Nursery insects	Provide proper drainage to newly transplanted seedlings and full are residual for a service.
vegetables		HOD'	follow raised bed for sowing FICULTURAL CROPS
Orchards	Multiple stages	HOR	 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
Banana	Vegetative		 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.
Ginger/Turmeric	Sowing		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.
Citrus	Flowering/fruitin g	Bark eating caterpillar	 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. 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
Apple	Vegetative	Wooly aphids	On clear/dry day, swab the stem with mineral oil against wooly aphid.
		A	GROFORESTRY
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings

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.)	 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 against FMD 	
Poultry	All stages		 Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under versupervision and recommended doses. Provide adequate clean drinking water+electrolyte and multivitamins Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days. F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days. F/Lasota, 6-7 weeks: Chicken embryo adopted fowl powaccine and 56-70 days: RD R-2B strain. Remove wet litter 	
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 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-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided from vaccination.	

Agro-met Advisory Bulletin

(Period: 28th April to 2nd May 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

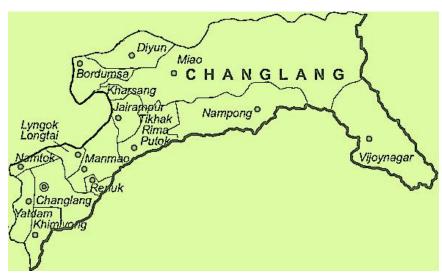
(Integrated Agro-Meteorological Advisory Services)



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

District: Changlang

No: 34/2017/Fri Dated: 28th April, 2017



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

Weather summery of the previous week	Weather forecast valid up to 2 nd May, 2017
Rainfall = Changlang: 6.8 mm Miao: 0.0	Partly cloudy weather forecasted with light/moderate heavy
mm	rainfall. Daily maximum and minimum temperature for the
	following period is predicted to be 27-29°C and 18-19°C
	respectively. Expected morning and evening relative humidity will
	be 79-94% and 47-61% respectively. Wind direction is mainly SE &
	SSE with speed range of 3-4 kmph.
Warning	Heavy rainfall very likely on 28th April, 1st & 2nd May

Weather Based Agro-meteorological Advisories Bulletin

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



Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Seedling Knee height	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 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 spacing of 20X15cm. Sowing of maize in higher altitudes advocated in raised bed
			Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
			VEGETABLES
Pre-summer	Germination		Right time for transplanting the ready seedlings of chili,
vegetables			tomato, capsicum etc.
			 Provide proper drainage to newly transplanted seedlings and follow raised bed of 15-20cm for sowing
		<u> </u>	TCULTURAL CROPS
Banana	Vegetative	IIOKI	Planting of banana making pit maintaining at a spacing of 2.5
	- v egetative		X 2.5 meter plant to plant and row to row distance.
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	Fruiting	Bark eating caterpillar	 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 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.
Ginger/Turmeric	Sowing		 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.
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 boos			Honey Bees Poy must be severed with strony/dry leaves to provide
Honey bees			Box must be covered with straw/dry leaves to provide warmth Drawide sugar syrum
			• Provide sugar syrup LIVESTOCKS
Livestock	Stogo	Disease	
	Stage	FMD (high fever	Precautionary Practices to be followed
Pigs	All stages	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		 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			Best time to prepare the culture pond like cleaning aquatic weeds		
	A 11 stages	EMD			
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

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

Agro-met Advisory Bulletin

(Period: 28th April to 2nd 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: Dibang Valley

No: 34/2017/Fri Dated: 28th April, 2017



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

Weather summery of the previous week	Weather forecast valid up to 2 nd May, 2017
Rainfall = 187.0 mm (Anini)	Partly cloudy sky with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 13-14°C and 9-10°C respectively. Expected morning
	and evening relative humidity will be 87-93% and 49-73%
	respectively. Wind direction is E with speed range of 5-6 kmph.
Warning:	Heavy rainfall very likely on 28th April, 1st & 2nd May

Weather Based Agro-meteorological Advisories Bulletin

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



Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Maize	Seedling		Sowing of Maize advocated
			Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
			Follow time isolation of atleast 15 days for two or more
			different varieties of maize in Jhum field
Rice	Seedling	Stem borer	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.
			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
			spacing of 20X15cm.
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
			Cowpea variety (Kashi Kanchan) and Frenchbean variety
			(Selection-9) are advocated for intercropping as they are short
			duration, dwarf and high yielding.
D	G 11:		VEGETABLES
Pre-summer vegetables	Seedling		Provide proper drainage to newly transplanted seedlings and
vegetables		HODE	follow raised bed for sowing
Orchards		HUK	FICULTURAL CROPS ● Prepare half moon terraces in fruit crops
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
			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.
Citrus	Fruiting	Bark eating	Budding method of propagation (T-budding) to commences in
		caterpillar	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 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
	~~6		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.
		<u> </u>	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
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. Remove wet litter/provide artificial heating and light
Fishery			Best time to prepare the culture pond like cleaning aquatic weeds
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 Contact Scient	sticts (ICAD) on St	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. VK staff for measures against adverse conditions or call at 03795-
Contact Scien	iusis (ICAR) of St	ate Agrii Stail Of F	226237/226247

Agro-met Advisory Bulletin

(Period: 28th April to 2nd May 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

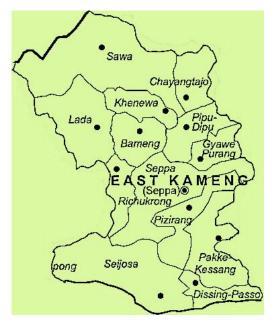
(Integrated Agro-Meteorological Advisory Services)



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

District: East Kameng

No: 34/2017/Fri Dated: 28th April, 2017



Weather summery of the previous week	Weather forecast valid up to 2 nd May 2017
Rainfall = 59.6 mm	Partly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 20-21°C and 11-12°C respectively. Expected morning and evening relative humidity will be 93-96% and 58-71% respectively. Expected wind direction is E & SE with speed range of 3-4 kmph.
Warning:	Heavy rainfall very likely on 28th April, 1st & 2nd May

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	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 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 spacing of 20X15cm.
Maize	Knee height		 Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum 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. 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		Provide drainage to newly transplanted seedlings
vegetables		норт	ICULTURAL CROPS
Banana	Vegetative	HOK1	Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.
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 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.
Citrus	Flowering	Bark eating caterpillar	 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 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.

			Agroforestry
Гоко palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
			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 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. Remove wet litter/provide artificial heating and light
Fishery			Best time to prepare the culture pond like cleaning aquatic weeds
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 route. Pregnant animals above 7 months of pregnancy should be avoided.

Agro-met Advisory Bulletin

(Period: 28th April to 2nd May 2017)

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: East Siang

No: 34/2017/Fri

Dated: 28th April, 2017



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

Weather summery of the previous week	Weather forecast valid up to 2 nd May 2017
Rainfall: 271.5 mm; T. Max: 25.0°C; T. Min:	Partly cloudy with possibility of light/moderate rainfall in most
19.0°C; RH: 92-96%	of the places. Daily maximum and minimum temperature for the
	following period is predicted to be 25-26°C and 19-20°C
	respectively. Expected morning and evening relative humidity will
	be 86-93% and 51-80% respectively. Expected wind direction is
	mainly W with speed range of 2-6 kmph.
Warning:	Heavy rainfall very likely on 28th April, 1st & 2nd May

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Seedling Sowing/ 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 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 spacing of 20X15cm. Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum 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.
			• 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 to avoid fungal
			infections during rainy days
D		N.Y.	VEGETABLES
Pre-summer vegetables	Sowing /seedling	Nursery insects	 Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and
			follow raised bed for sowing • Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500
			litres water/ha against nursery insects
Danasa	No octobioso	HORT	CICULTURAL 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.
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	 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 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.
Ginger/Turmeric	Planting material collection/ Land preparation		 Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw Keep selected rhizomes for planting material in partial shade for better sprouting. Mulching materials like forest litters or crop residues should be collected in advance

Large Cardamom	Sowing		 Land preparation to a fine tilth to be done before sowing during sunny days Avoid sowing of Ginger/Turmeric during rainy days 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			 On prolong rain, 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.)	• 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		 Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Provide adequate clean drinking water+electrolyte and multivitamins Give broad-spectrum antihelmintic drugs as per prescribed doses. Vaccination as per the schedule with proper consultation with vet. ▶ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter/provide artificial heating and light
Fishery			• Best time to prepare the culture pond like cleaning aquatic weeds
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 route.

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

Agro-met Advisory Bulletin

(Period: 28th April to 2nd 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: Kurung Kumey

No: 34/2017/Fri

Dated: 28th April, 2017



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

Weather summery of the previous week	Weather forecast valid up to 2 nd May 2016
Past weather summary not available	Partly cloudy weather with possibility of light rainfall in most of
	the places. Daily maximum and minimum temperature for the
	following period is predicted to be 25-26°C and 19-20°C
	respectively. Expected morning and evening relative humidity will
	be 88-91% and 63-74% respectively. Wind direction is SW & WSW
	with speed range of 2-3 kmph.
Warning	Heavy rainfall very likely on 28th April, 1st & 2nd May

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice Jhum field	Seedling	Stem borer	 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. 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 spacing of 20X15cm. 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
Pea	Seedling		Provide proper drainage to already sown crops
			VEGETABLES
Pre-summer vegetables	Sowing/ Seedling	Nursery insects	 Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects
		HORT	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.
Citrus	Flowering/ Fruiting	Bark eating caterpillar	 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 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.
Ginger/Turmeric	Sowing		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.
Large Cardamom	Sowing	Woolerantide	 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.
Talso :: -1:	Name		Agroforestry
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings

			Honey Bees
			 Box must be covered with straw/dry leaves to provide
			warmth
			LIVESTOCKS
Livestock	Stage	Disease	Precautionary Practices to be followed
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.)	 Provide adequate bedding material (paddy straw, rice husk) to newly born piglets. Animals should be given lukewarm feed and water. All animals should be tethered in a covered shelter. 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. Remove wet litter/provide artificial heating and light
Fishery			Best time to prepare the culture pond like cleaning aquatic weeds
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.

Agro-met Advisory Bulletin

(Period: 28th April to 2nd May 2017)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

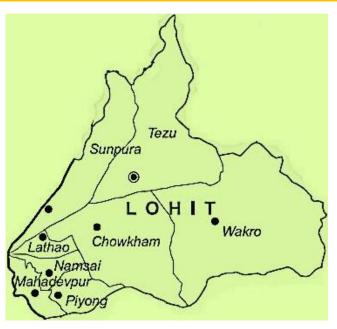
(Integrated Agro-Meteorological Advisory Services)



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

District: Lohit

No: 34/2017/Fri Dated: 28th April, 2017



Weather summery of the previous week	Weather forecast valid up to 2 nd May, 2017
Rainfall =149.8 mm (Tezu)	Partly cloudy weather with possibility of moderate heavy rainfall.
	Daily maximum and minimum temperature for the following period is
	predicted to be 25-26°C and 18-19°C respectively. Expected morning
	and evening relative humidity will be 77-93% and 47-57%
	respectively. Wind direction is East with speed range of 3-5 kmph.
Warning:	Heavy rainfall very likely on 28th April, 1st & 2nd May

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Seedling	Stem borer	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.
			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
			spacing of 20X15cm.
Colo arono	Nama	I	VEGETABLES
Cole crops	Nursery		Raising nursery can be carried out in higher altitudes/ cold
Pre-summer	Sowing/		areas
vegetables	Seedling		Sowing of pre-summer vegetables like okra, frenchbean etc description of the state of
vegetaeres	beeding		advocated, avoid sowing during rainy days
			• Carry out seed dressing/treatment with Thiram or
			Carbendazim @ 2g/kg seed before sowing
			Right time for transplanting the ready seedlings of chili, tomate consistent attachments.
			tomato, capsicum etc.
			 Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing.
		HORT	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.
Orchards			Prepare half moon terraces in fruit crops (control
			(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	Budding method of propagation (T-budding) to commences in
		caterpillar	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 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.
Ginger/Turmeric	Sowing		Identify healthy plants for seed rhizomes/ collect better
	9		seedlings from ICAR Basar or KVK West Siang/Anjaw
			Keep selected rhizomes for planting material in partial shade
			for better sprouting.
			Mulching materials like forest litters or crop residues should
			be collected in advance
			Land preparation to a fine tilth to be done before sowing during sunny days
			 Disease free ginger/turmeric rhizome of 30-40 g having atleast
			2 eyes to be sown in finely tilth bed of 1m width, 15 cm high
			and of convenient length at a spacing of 30cm between rows
			and 25 cm between plants.
L			-

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			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.)	 Keep the houses dry and clean. 1st injection at 6 months of age and 2nd injection at 12 months of 		
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 Give broad-spectrum antihelmintic drugs as per prescribed doses. Vaccination as per the schedule with proper consultation with vet. Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter/provide artificial heating and light 		
Fishery			Best time to prepare the culture pond like cleaning aquatic weeds		
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. 		
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247					