Agro-met Advisory Bulletin

(Period: 18th to 20th April, 2018)

ग्रामीण कृषि मौसम सेवा





(Integrated Agro-Meteorological Advisory Services)



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

District: Anjaw

No: AMFU-Basar/2018/31

Dated: Tue, 17th April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
No weather summary available	Partly cloudy with possibility of light to rater heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 26-27°C and 14°C respectively. Expected morning and evening relative humidity will be 93-100% and 46-65% respectively. Wind direction is mainly E & SE with average wind speed range of 3-7 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS Rice	Nursery/trans plantation	Stem borer	 Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. 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		 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. 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.
Pea	Seed development	Powdery mildew/ leaf eating insects	 Provide adequate drainage and avoid water stagnation near the base of the plants. Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Toria/ Mustard	Maturity	Aphids	 Provide adequate drainage If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLE	n		
Ginger/ Turmeric	Maturity		 Harvest the mature crop on clear day, Cure should be taken while harvest so that the rhizome is not damaged,
Summer vegetables	Sowing		 Right time for transplantation of healthy seedlings to main field from nursery Sowing advocated during clear/dry days Provide adequate drainage to already sown crops
Potato	Vegetative stage/ Harvesting stage		 Harvesting only during clear/dry days Store already harvested crops in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.
Cabbage/ Cauliflower	Harvesting		 Harvest mature crop. Constantly monitor against attack of insects pests/mole.
	URAL CROPS	D 1	
Citrus	Flowering	Bark eating caterpillar	 Cleaning & smearing of trunk base with Bordeaux paste. 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.

Orchards (Orange, Banana, Apple, Peach etc)			 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. Prepare half moon terraces in fruit crops grown in steep slopes to prevent nutrient loss during heavy downpour.
Banana	Bunching	Cold	 Cover newly emerged bunches with locally available sack to protect from cold/frost Mulching with straw/crop residue at root zone to avoid frost injury in banana.
Large cardamom	,		Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation.
LIVESTOCKS	5		
Livestock	Stage	Disease	Precautionary Practices to be followed
Poultry	All stages		 Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting,
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	 Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			 To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Cattle	All stages	FMD	 Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water Provide feed supplements
Mithun		FMD	 Polyvalent FMD vaccine with serotype 0, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided from vaccination.

Agro-met Advisory Bulletin

(Period: 18th to 20th April, 2018)

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: AMFU-Basar/2018/31

Dated: Tue, 17th April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Rainfall = Changlang: 0.0 mm Miao: 19.4 mm	Partly cloudy with possibility of light rain on 18th & 20th April. Daily maximum and minimum temperature for the following period is predicted to be 32-33°C and 20°C respectively. Expected morning and evening relative humidity will be 58-88% and 18-35% respectively. Wind direction is mainly E & ESE with speed range of 4-5 kmph.
Warning	• Nil

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	Stago	Pest/Disease	Precautionary Practices to be followed
Crop FIELD CRO	Stage PS	r esu Disease	rrecautionary rractices to be followed
FIELD CRO		Stem borer	 Rice: Weed free & clean nursery periphery to prevendisease/pest harboring. Wet seed treatment for 12hrs. in Carbendazim 50% W (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 1 litres of water) solution before sowing. Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer is 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. 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 Chlorpyripho 20EC for 12 hours before transplanting protects the cro for 20 to 30 days Avoid closer spacing while transplantation which create favorable microclimate for pests in the field. Follow wide spacing of 20X15cm.
<i>Jhum</i> field	Sowing		 Adopt sowing of leguminous crops like cowpea, frenchbear soybean etc at 2-3 rows across the slope of jhum field a desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Carry out seed dressing/treatment with Thiram of Carbendazim @ 2g/kg seed before sowing. Cowpea variety (Kashi Kanchan) and Frenchbean variet (Selection-9) are advocated for intercropping as they are sho duration, dwarf and high yielding.
Pea	Seed development/ maturity	Powdery mildew/ leaf eating insects	 Harvest mature crops Need based foliar spray of Dinocap (0.2%) or Carbendazin 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Maize	Sowing		 Treat the seeds before sowing with Captan 50% WP @2g/kg seed, Make proper drainage in the crop field
VEGETABL	ES		
Pre-summer vegetables	Sowing	Nursery insects	 Right time for transplanting the ready seedlings of chil tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings an follow raised bed for sowing Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 50 litres water/ha against nursery insects
Cucurbits	Nursery/Sowing		 Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing. Transplant during clear/dry days in a raised plot with proper drainage
French Bean	Sowing		 In present weather conditions, sowing of quality seeds may be done, Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Okra	Sowing		 Procure quality seed from certified agency. Avoid sowing during rainy days
Potato	Maturity/		 Harvesting can be done on clear/dry days

		1	-	
	Harvesting		*	If already harvested, store in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.
Ginger/ Turmeric	Maturity		*	Harvest the mature crop,
			*	Cure should be taken while harvest so that the rhizome is not damaged,
HORTICULT	URAL CROPS		•	
Citrus	Flowering	Bark eating caterpillar	•	Cleaning & smearing of trunk base with Bordeaux paste. 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.
Banana	Bunching	Cold	*	Cover newly emerged bunches with locally available sack to protect from cold/frost Mulching with straw/crop residue at root zone to avoid frost injury in banana.
HONEY BEES	5			
Honey bees				Box must be covered with straw/dry leaves to provide warmth Provide sugar syrup
LIVESTOCKS	5			
Livestock	Stage	Disease		Precautionary Practices to be followed
 Clean d cleaned,) to be di d round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly
Fishery			*	To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond

Fishery			*	To avoid water turbidity, use grass turfing or horticultural	
				crop at embankment/dyke of the earthen fish pond.	
Poultry	All stages		*	Provide shelter to the backyard/scavenging poultry.	
			*	Feed grains in the morning/evening to supplement scavenging.	
Pigs	All stages		*	Avoid dampness and cover weak and sick animals with	
				sack cloth.	
			*	Right time to deworm with anti helmetic drugs (particularly	
				Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.	
Goat	All stages		*	Deworming for gastrointestinal parasite	
Cattle	All stages	FMD	*	Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.	
			*	Provide proper bedding materials especially to new-born and lukewarm food & water	
				Provide feed supplements	
Contact Scien	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247				



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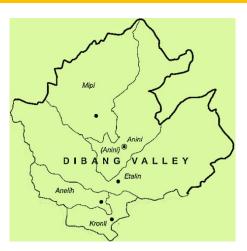


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Dibang Valley

No: AMFU-Basar/2018/31

<u>Dated: Tue, 17th April, 2018</u>



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

Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Rainfall = 1.0 mm (Anini)	Patly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 24-25°C and 12-13°C respectively. Expected morning and evening relative humidity will be 92-97% and 46-65% respectively. Wind direction is mainly S & SSE with speed range of 5-6 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Pea	Seed development	Powdery mildew/ leaf eating insects	 Provide adequate drainage and avoid water stagnation near the base of the plants. Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Rice	Nursery/trans plantation	Stem borer	 Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. 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.
Toria/ Mustard	Maturity	Aphids	 Provide adequate drainage If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLE	S		
Cucurbits	Nursery/Sowing		 Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Potato	Maturity/ Harvesting		 Harvesting recommended during clear/dry days Store already harvested potatoes in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.
HORTICULT	URAL CROPS		
Citrus	Flowering	Bark eating caterpillar	 Cleaning & smearing of trunk base with Bordeaux paste. 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.

	•	•	*	General
Livestock	Stage	Disease		Precautionary Practices to be followed
LIVESTOCK	S			
				heavy rainfall
			*	Provide sugar syrup in a bowl in front of the box in case of
noney bees			•	provide warmth
Honey Bees Honey bees			*	Cover the boxes with locally available dry grass or straw to
				canker and other diseases.
				sulphate (2Kg)+quick lime (2kg) in 200litres of water) against
			*	In bearing trees give a spray of Bordeaux mixture (copper
	6			oil.
Apple	Flowering		*	For woody aphid-Wipe the stem with cloth soaked in mineral
	8			protect flowers from heavy rain and hail storm.
Kiwi	Flowering		*	Kiwi fruit vine should be covered with 50% shade net to
Large cardamom	Sowing		*	Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation.

- Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding
- Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,

Fishery			*	To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.
Poultry	All stages			Provide shelter to the backyard/scavenging poultry. Fee grains in the morning/evening to supplement scavenging. Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	*	Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh
Cattle	All stages	FMD	*	Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight.
			* * *	Supportive treatment of infected animals under supervision of veterinary department officials, Avoid mixing of infected and healthy animals, Keep infected animals separated from the healthy ones, Vaccinate the healthy animals against FMD (Through Star Veterinary Dept.) Provide feed supplements
Mithun		FMD		Polyvalent FMD vaccine with serotype O, A and Asia at 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: 18th to 20th April, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

District: East Kameng

<u>No: AMFU-Basar/2018/31</u>

Dated: Tue, 17th April, 2018



Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Rainfall = 5.3 mm	Partly cloudy with possibility moderate rain. Daily maximum and
	minimum temperature for the following period is predicted to be
	26°C and 13-14°C respectively. Expected morning and evening
	relative humidity will be 67-92% and 36-52% respectively.
	Expected wind direction is mainly SSE & SE with speed range of 4-
	5 kmph.
Warning:	•

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROP	S		
Rice	Nursery/trans plantation	Stem borer	 Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. 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
			 Follow clean cultivation, presence of grasses hear the fice 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,
shum neid	Sowing		• Adopt sowing of regulatious crops like cowpea, itelefibean, 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.
Maize	Sowing		 Treat the seeds before sowing with Captan 50% WP @2g/kg seed,
			Make proper drainage in the crop field
Pea	Pod mature	Birds	 Avoid water stagnation near base of the plants Harvest of green pods, Use of scare crow and tying of bird scare tape around the
			crop field,
			✤ VEGETABLES
Pre-summer vegetables	Sowing	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
Cucurbits	Nursery/Sowing		 Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Potato	Maturity/		 Harvest only during clear/dry days
	harvesting		
	Flowering	Bark asting	
Citrus	Flowering	Bark eating caterpillar	 Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. 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 (Blonofir) NAA based growth regulator @2m/5lit
			• 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.

ching Co		• Cover newly emerged bunches with locally available sack to
		 protect from cold/frost Mulching with straw/crop residue at root zone to avoid
	•	frost injury in banana.
tative/	*	• Provide proper drainage to avoid water stagnation in the base
sring stage		of the plants.
Stage	Disease	Precautionary Practices to be followed
Stuge		
0		
Il stages	*	• Provide shelter to the backyard/scavenging poultry. Feed
	*	 grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting,
		 Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
Ill stages	*	 Avoid dampness and cover weak and sick animals with sack cloth.
	*	• Right time to deworm with anti helmetic drugs (particularly
		Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
ll stages	*	Deworming for gastrointestinal parasite
	*	• To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Il stages	FMD 🔶	 Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30
	*	kg body weight.Provide proper bedding materials especially to new-born and
		lukewarm food & waterProvide feed supplements
		Stage Disease Stage Disease in (not fungus contaminated) to be dang water should be ensured round All stages Image: Im

Agro-met Advisory Bulletin

(Period: 18th to 20th April, 2018)



ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: East Siang

No: AMFU-Basar/2018/31

Dated: Tue, 17th April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 21 st April 2018			
Rainfall: 104.8 mm; T. Max: 32.0°C; T. Min:	Partly cloudy with possibility of moderate rainfall. Daily			
18.0°C ; RH: 54-100%	maximum and minimum temperature for the following period is			
	predicted to be 31-32°C and 20-21°C respectively. Expected			
	morning and evening relative humidity will be 69-92% and 28-54%			
	respectively. Expected wind direction is mainly S with speed range			
	of 3-6 kmph.			
Warning:	• Nil			

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease		Precautionary Practices to be followed
FIELD CROP Rice	S Nursery/trans plantation	Stem borer	• • • • • • • • • • • • • • • • • • • •	Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. 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
Jhum field	Sowing		•	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. 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
Maize	Sowing		*	duration, dwarf and high yielding. Treat the seeds before sowing with Captan 50% WP @2g/kg seed, Make proper drainage in the crop field
Pea	Pod mature	Birds	-	Harvest of green pods, Use of scare crow and tying of bird scare tape around the crop field,
Toria/ Mustard	Maturity/ Harvesting	Aphid	* *	Harvesting of mature crop, If only infestation is high, Spraying of dimethoate @ 2 ml per litre of water is advised using proper sticker,
VEGETABLE	S			
Pre-summer vegetables	Sowing	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
Cucurbits	Nursery/Sowing		* * *	Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Potato	Maturity/ Harvesting stage	Red ant	* *	
French Bean Okra	Sowing Sowing		*	Can be sown on clear/dry days Sowing during clear/dry days making bunds. Procure quality seed from certified agency.
HORTICULT	URAL CROPS			

Citrus	Flowering	Bark eating caterpillar	d • E • O • C • I • I • S • S • F • F • I	Cleaning & smearing of trunk base with Bordeaux paste luring clear/dry days. Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. Cleaning & smearing of trunk base with Bordeaux paste of flowering begins, avoid spray of insecticides/ pesticides as it nay affect pollination process. Spray (Planofix) NAA based growth regulator @2m/5lit vater during flowering stage in orange plant to reduce ruit/flower drop For bark eating caterpillar, remove wooden frass and nject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
Kiwi	Pruning/Training		* I * F e * F	Diseased and senile branches should be removed. Pruning should be done retaining 8-10 buds per branch for enhancing new flush and flowering. Pruned healthy hard wood of pencil thickness size having 4-5 buds can be used as cutting for propagation
Honey Bees				
Honey bees				Cover the boxes with locally available dry grass or straw to provide warmth
LIVESTOCKS	5			
Livestock	Stage	Disease		Precautionary Practices to be followed
 Clean d cleaned, 	rinking water sh		to be dive l round t	General rted for Poultry/livestock feeding he clock and water troughs/feeders should be regularly
Fishery				To avoid water turbidity, use grass turfing or horticultural rop at embankment/dyke of the earthen fish pond.
Poultry	All stages		 ♦ F ♀ I ♦ I ♦ I 	Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
Pigs	All stages		* Â s * F	Avoid dampness and cover weak and sick animals with ack cloth. Right time to deworm with anti helmetic drugs (particularly Capeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Goat	All stages		* I	Deworming for gastrointestinal parasite
Cattle	All stages	FMD	() k * F h	Right time to deworm with anti helmetic drugsparticularly Tapeworms) viz. Fento Plus @ 1 tablet per 30is body weight.Provide proper bedding materials especially to new-born andukewarm food & waterProvide food supplemente
Contract Set	tists (ICAD) cm	State A cuil State		Provide feed supplements staff for measures against adverse conditions or call

District: Kurung Kumey

<u>No: AMFU-Basar/2018/31</u>

Dated: Tue, 17th April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Past weather summary not available	Partly cloudy with possibility of moderate rain. Daily maximum
	and minimum temperature for the following period is predicted to be
	24°C and 11-12°C respectively. Expected morning and evening
	relative humidity will be 75-90% and 53-67% respectively. Wind
	direction is mainly SSE & S with wind speed range of 4 kmph.
Warning	• Nil

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROP	S		
Jhum Rice	Land Preparation		 Arrangement of quality seeds, Make structures to avoid runoff in the slope, ICAR Basar recommends procuring quality seeds of Bhalum1,2,3 & 4 in Jhum apart from the local varieties. Sowing to be done on clear/dry days Intercropping of leguminous crops (cowpea /frenchbean /soybean) at 2-3 rows across the slope in jhum field at desirable interval with rice advocated.
Pea	Seed development	Powdery mildew/ leaf eating insects	 Provide adequate drainage and avoid water stagnation near the base of the plants. Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Toria/ Mustard	Maturity	Aphids	 Provide adequate drainage If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLE	S		
Cucurbits	Nursery/Sowing		 Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Summer vegetables	Sowing		 Sowing advocated during clear/dry days
Potato	Vegetative stage/ Harvesting stage	Late blight/ Red ant	 Harvesting during clear/dry days Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall
Cabbage/ Cauliflower	Harvesting		 Harvest mature crop. Constantly monitor against attack of insects pests/mole.
	URAL CROPS		
Large cardamom			 Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation.
Citrus	Flowering	Bark eating caterpillar	 Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. 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.
Apple	Flowering		 For woody aphid-Wipe the stem with cloth soaked in mineral oil. In bearing trees give a spray of Bordeaux mixture (copper sulphate (2Kg)+quick lime (2kg) in 200litres of water) against canker and other diseases.
Temperate fruits	After harvesting		 Training & pruning of the temperate crops (apple/pears/peach) is recommended In case of flowering, stop spraying insecticides/pesticides
Pineapple	Harvesting		 After winter harvest, collection/Selection of suckers & slip to be done for next season planting
Kiwi	Flowering		 Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.

Banana	Bunching	Cold		Cover newly emerged bunches with locally available sack to protect from cold/frost Mulching with straw/crop residue at root zone to avoid frost injury in banana.
Honey Bees				
			*	Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS	5			
General				
				verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular
Livestock	Stage	Disease		Precautionary Practices to be followed
Fishery			*	To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.
Cattle	All stages	FMD	*	Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight. Provide proper bedding materials especially to new-born an lukewarm food & water Provide feed supplements
Poultry	All stages		*	Provide shelter to the backyard/scavenging poultry. Fee grains in the morning/evening to supplement scavenging.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever		Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight
Mithun		FMD		Polyvalent FMD vaccine with serotype O, A and Asia at months of age and repeat after that 6 months interval by sub cutaneous route. Pregnant animals above 7 months of pregnancy should b avoided.

Agro-met Advisory Bulletin

(Period: 18th to 20th April, 2018)



ग्रामीण कृषि मौसम सेवा





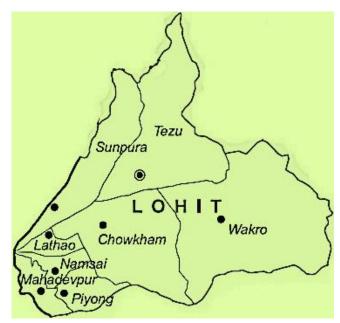


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: Lohit

No: AMFU-Basar/2018/31

Dated: Tue, 17th April, 2018



Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Rainfall = 42.4 mm	Partly cloudy with possibility of light to rather heavy rainfall.
	Daily maximum and minimum temperature for the following period is
	predicted to be 31°C and 18-19°C respectively. Expected morning and
	evening relative humidity will be 72-93% and 24-50% respectively.
	Wind direction is mainly ENE with speed range of 4-6 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROP		~	
Rice	Nursery/trans plantation	Stem borer	 Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. 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 pacts in the field. Follow uridar
			favorable microclimate for pests in the field. Follow wider
Jhum field	Sowing		 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. 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.
Maize	Sowing		 Treat the seeds before sowing with Captan 50% WP @2g/kg seed,
			Make proper drainage in the crop field
Pea	Seed development	Powdery mildew/ leaf eating insects	 Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
VEGETABLE	S		
Pre-summer vegetables	Sowing	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
Cucurbits	Nursery/Sowing		 Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
French Bean	Sowing		Sowing of quality seeds advocated
Okra	Sowing		Proper drainage to already sown crops
Potato	Maturity/ Harvesting	Late blight/ Red ant	 Avoid fresh sowing Immediate harvesting advocated during clear/dry days Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall
Ginger/ Turmeric	Maturity		 Water is advised using succers in case of rainfail Harvest the mature crop, Cure should be taken while harvest so that the rhizome is not damaged,

HORTICULT	URAL CROPS			
Citrus	Flowering	Bark eating caterpillar	 dur. Bud orar Clea If flomay Spr wat frui For inje Dea 	aning & smearing of trunk base with Bordeaux paste ing clear/dry days. ding method of propagation (T-budding) to commences in ages using Rangpur lime as rootstock. aning & smearing of trunk base with Bordeaux paste owering begins, avoid spray of insecticides/ pesticides as it affect pollination process. ay (Planofix) NAA based growth regulator @2m/5lit er during flowering stage in orange plant to reduce t/flower drop bark eating caterpillar, remove wooden frass and ct Dichlorovos (0.1%) @ 5ml with disposable syringe. d wood on the citrus trees should be kept pruned, ut 2cm, below the dead portion.
Kiwi	Pruning/Training		 Disc Pru enh Pru 4-5 	eased and senile branches should be removed. ning should be done retaining 8-10 buds per branch for ancing new flush and flowering. ned healthy hard wood of pencil thickness size having buds can be used as cutting for propagation
Large Cardamom	Fruiting	Chirkey Disease	Bio	nove dry/diseased/old tillers & branches & spray NPK@ 2ml/lit water for proper growth on ur/dry days.
Banana	All stages	Sigatoka Leaf spot	 Peri grou core Foli 	sword sucker may be allowed after shooting (Flowering), odical removal of side suckers by cutting them above the and level, scoop the core and pour 2 ml of kerosene in the ar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of e using stickers
Honey Bees				
Honey bees				er the boxes with locally available dry grass or straw to vide warmth
LIVESTOCKS	5			
Livestock	Stage	Disease		cautionary Practices to be followed
				eral d for Poultry/livestock feeding clock and water troughs/feeders should be regularly
Poultry	All stages		grai Day Inc	vide shelter to the backyard/scavenging poultry. Feed ins in the morning/evening to supplement scavenging. old chick-Maintain warmth by lighting, lusion of turmeric powder @ 10g/kg feed for vention of cocciodiosis.
Pigs	All stages		✤ Avo sach★ Right	id dampness and cover weak and sick animals with a cloth. In time to deworm with anti helmetic drugs (particularly eworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Goat	All stages		-	vorming for gastrointestinal parasite
Fishery	- III Suiges		* To :	avoid water turbidity, use grass turfing or horticultural o at embankment/dyke of the earthen fish pond.
Cattle	All stages	FMD	 Rig (particular) kg t Provint luke 	ht time to deworm with anti helmetic drugs rticularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 body weight. Vide proper bedding materials especially to new-born and warm food & water vide feed supplements
				aff for measures against adverse conditions or call

Agrometeorological Field Unit
ICAR, BASAR

Agro-met Advisory Bulletin

(Period: 18th to 20th April, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

District: Lower Subansiri

No: AMFU-Basar/2018/31

Dated: Tue, 17th April, 2018



Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Rainfall = NA	Partly cloudy with possibility of moderate to rather heavy
	rainfall. Daily maximum and minimum temperature for the
	following period is predicted to be 31°C and 18-19°C respectively.
	Expected morning and evening relative humidity will be 73-92%
	and 41-60% respectively. Wind direction is mainly S with speed
	range of 3-4 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROP	S Nursery/trans plantation	Stem borer	 Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. 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 apaging of 20V15 cm
Jhum field	Sowing		 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. 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.
Pea	Seed development	Powdery mildew/ leaf eating insects	 Provide adequate drainage and avoid water stagnation near the base of the plants. Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Toria/ Mustard	Seed formation/ ripening	Aphids	 Suspend spray operations. Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard on clear/dry days.
VEGETABLE	S		
Pre-summer vegetables Potato	Sowing Vegetative stage/ Harvesting stage	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 Avoid harvesting under current weather condition. (Harvest only during clear/dry days)
HORTICULT Large cardamom	URAL CROPS Sowing		 Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation.
Kiwi	Flowering		 Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
Apple	Flowering		 For woody aphid-Wipe the stem with cloth soaked in mineral oil. In bearing trees give a spray of Bordeaux mixture (copper sulphate (2Kg)+quick lime (2kg) in 200litres of water) against canker and other diseases.
Citrus	Flowering	Bark eating caterpillar	 Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.

			•	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.
Temperate fruits	After harvesting		*	about 2cm, below the dead portion. Training & pruning of the temperate crops (apple/pears/peach) is recommended
			*	In case of flowering, stop spraying insecticides/pesticides
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	5			
Livestock	Stage d grain (not fung		be div	 Precautionary Practices to be followed General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular!
Livestock	Stage d grain (not fung	us contaminated) to l	be div ound	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularl To avoid water turbidity, use grass turfing or horticultural
Livestock	Stage d grain (not fung	us contaminated) to l	be div ound * *	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularl To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond. Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Inclusion of turmeric powder @ 10g/kg feed for
Livestock	Stage d grain (not fung rinking water sl	us contaminated) to l	be divound	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularl To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond. Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.

 Image: Provide feed supplements

 FMD
 Image: Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route.

Pregnant animals above 7 months of pregnancy should be avoided.

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

Mithun

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

Agro-met Advisory Bulletin

(Period: 18th to 20th April, 2018)



ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA (Integrated Agro-Meteorological Advisory Services)



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

District: Papum Pare

<u>No: AMFU-Basar/2018/31</u>

Dated: Tue, 17th April, 2018



Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Rainfall: 43.9 mm; T. Max: 34.0°C; T. Min:	Partly cloudy with possibility of moderate to heavy rain. Daily
18.0°C ; RH: 64-88%	maximum and minimum temperature for the following period is
	predicted to be 32-33°C and 20°C respectively. Expected morning
	and evening relative humidity will be 81-94% and 45-62%
	respectively. Expected wind direction mainly variable with speed
	range of 3-4 kmph.
Warning:	•

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Rice	Nursery/trans plantation	Stem borer	 Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. 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
Jhum field	Sowing		 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.
			 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.
Maize	Sowing		 Treat the seeds before sowing with Captan 50% WP @2g/kg seed, Make proper drainage in the crop field
			VEGETABLES
Pre-summer vegetables	Sowing	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
Cucurbits	Nursery/Sowing		 Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
French Bean	Sowing		 In present weather conditions, sowing of quality seeds may be done in shady areas, Treat the seeds with Imidacloprid 17SL @1ml/litre/kilogram seed before sowing.
Okra Potato	Sowing Maturity/ Harvesting stage	Late blight/ Red ant	 Procure quality seed from certified agency. Avoid sowing Avoid harvesting Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall
Ginger/ Turmeric	Maturity		 Harvest the mature crop during clear/dry days, Cure should be taken while harvest so that the rhizome is not damaged,

		I	HORTIC	ULTURAL CROPS
Citrus Large Cardamom	Flowering	Bark eating caterpillar	• • • • • •	Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. 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. Provide proper drainage to avoid water stagnation in
Large Cardamoni	vegetative		***	the base of the plant.
Banana	Multiple stages	Sigatoka Leaf spot	*	One sword sucker may be allowed after shooting (Flowering), Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of water using stickers in case of rainfall
			Н	oney Bees
Honey bees			*	Box must be covered with straw/dry leaves to provide warmth
			LI	VESTOCKS
Livestock	Stage	Disease		Precautionary Practices to be followed
	d grain (not fung		l round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly To avoid water turbidity, use grass turfing or horticultural
5				crop at embankment/dyke of the earthen fish pond.
Poultry	All stages		*	Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
Pigs	All stages		* *	Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Goat	All stages		*	Deworming for gastrointestinal parasite
Cattle	All stages	FMD	*	Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and

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

lukewarm food & water

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

Agro-met Advisory Bulletin

(Period: 18th to 20th April, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

District: Tawang

No: AMFU-Basar/2018/31

Dated: Tue, 17th April, 2018



Weather summery of the previous week	Weather forecast valid up to 22 nd April 2018
Rainfall = 7.6 mm	Partly cloudy/sunny with possibility of light/moderate rain on
	18 th and 22 nd April. Daily maximum and minimum temperature for
	the following period is predicted to be $16^{\circ}C$ and $3.0-4.0^{\circ}C$
	respectively. Expected morning and evening relative humidity will
	be 79-86% and 46-56% respectively. Wind direction is mainly SSE
	& S with probable speed range of 4-6 kmph.
Warning:	•

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease		Precautionary Practices to be followed
FIELD CROP				Trecutional fractices to be followed
Maize	Sowing		•	Sowing of Maize advocated
	C		•	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
VEGETABLE				
French bean	Sowing		*	
Datata	N			seeds may be done.
Potato	Vegetative stage/		*	Harvesting can be done in clear/dry weather
Cabbage/	Harvesting stage Harvesting		*	
Cauliflower	That vesting		*	Constantly monitor against attack of insects pests/mole.
	URAL CROPS		•	Constantly monitor against attack of miscets pests/mole.
Kiwi	Flowering		*	Kiwi fruit vine should be covered with 50% shade net to
111/01	Tiowering		•	protect flowers from heavy rain and hail storm.
Applo	Flowering		*	
Apple	Flowering		*	For woody aphid-Wipe the stem with cloth soaked in mineral oil.
			*	In bearing trees give a spray of Bordeaux mixture (copper
			•	sulphate (2Kg)+quick lime (2kg) in 200litres of water) against
				canker and other diseases during clear/dry days.
T				
Temperate fruits	After harvesting		*	Training & pruning of the temperate crops (apple/pears/peach) is recommended
			*	In case of flowering, stop spraying insecticides/pesticides
Banana	Bunching	Cold	*	
Dununu	Duniening	cona	·	protect from cold/frost
			*	•
				frost injury in banana.
LIVESTOCK	5			
LIVESTOCK Livestock	S Stage	Disease		 Precautionary Practices to be followed
	Stage	Disease		 Precautionary Practices to be followed
Livestock General	Stage		be diver	
Livestock General	Stage	contaminated) to		Precautionary Practices to be followed ted for Poultry/livestock feeding ck and water troughs/feeders should be regularly cleaned,
Livestock General	Stage	contaminated) to	the clo	ted for Poultry/livestock feeding ck and water troughs/feeders should be regularly cleaned,
Livestock General & Damaged & Clean dr	Stage I d grain (not fungus inking water should	contaminated) to	the clo	ted for Poultry/livestock feeding ck and water troughs/feeders should be regularly cleaned, Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.
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Livestock General Damager Clean dr Poultry Yak	Stage d grain (not fungus inking water should All stages All stages	contaminated) to a definition of the ensured round	l the cloo	ted for Poultry/livestock feeding ck and water troughs/feeders should be regularly cleaned, Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended.
Livestock General & Damaged & Clean dr Poultry	Stage d grain (not fungus inking water should All stages	contaminated) to d be ensured round FMD (high fever	l the cloo	ted for Poultry/livestock feeding <u>ck and water troughs/feeders should be regularly cleaned,</u> Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended. Avoid dampness and cover weak and sick animals with
Livestock General Otheral Clean dr Poultry Yak	Stage d grain (not fungus inking water should All stages All stages	contaminated) to d be ensured round f be ensured round FMD (high fever and appearance	l the cloo	ted for Poultry/livestock feeding ck and water troughs/feeders should be regularly cleaned, Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended. Avoid dampness and cover weak and sick animals with sack cloth.
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Livestock General Damager Clean dr Poultry Yak	Stage d grain (not fungus inking water should All stages All stages	contaminated) to d be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.)	1 the cloo	ted for Poultry/livestock feeding ck and water troughs/feeders should be regularly cleaned, Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly
Livestock General Clean dr Poultry Yak Pigs	Stage d grain (not fungus inking water should All stages All stages All stages	contaminated) to d be ensured round FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	1 the cloo	ted for Poultry/livestock feeding ck and water troughs/feeders should be regularly cleaned, Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
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	lukewarm food & water ↔ Provide feed supplements
Contact Scientists (ICAR) or	ate Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247

Agro-met Advisory Bulletin

(Period: 18th to 20th April, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

District: Tirap

No: AMFU-Basar/2018/31

Dated: Tue, 17th April, 2018



Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Rainfall = 11.4 mm	Partly cloudy with possibility of light rain on 19 th April. Daily
	maximum and minimum temperature for the following period is
	predicted to be 32-33°C and 20°C respectively. Expected morning
	and evening relative humidity will be 83-100% and 33-44%
	respectively. Wind direction is mainly ESE & SE with speed range
	of 2-4 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed	
FIELD CROP				
Rice	Nursery/trans plantation	Stem borer	 Rice: Weed free & clean nursery periphery to preventise disease/pest harboring. Wet seed treatment for 12hrs. in Carbendazim 50% (1g/litre of water) & Chlorpyriphos 20% EC (2ml in litres of water) solution before sowing. Rice: Spray Triazophos 40EC @ 4 ml/lit against stem bore rice nursery as well as in main field. Cut the tips of the leaves before transplanting reduces 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 crop favors build-up of pest population Seedling root dip treatment in 0.02% of Chlorpyrip 20EC for 12 hours before transplanting protects the of for 20 to 30 days 	WP 10 er in the e. It d. the rice phos
			 Avoid closer spacing while transplantation which creat favorable microclimate for pests in the field. Follow with spacing of 20X15cm. 	
Jhum field	Sowing		 Adopt sowing of leguminous crops like cowpea, frenchb soybean etc at 2-3 rows across the slope of jhum field desirable intervals or ratios with rice to prevent soil ero and conserve moisture and fertility. Carry out seed dressing/treatment with Thiram Carbendazim @ 2g/kg seed before sowing. Cowpea variety (Kashi Kanchan) and Frenchbean var (Selection-9) are advocated for intercropping as they are s 	d at sion or riety
Maize	Sowing		 duration, dwarf and high yielding. Treat the seeds before sowing with Captan 50% WP @2g/kg seed, 	Ď
			Make proper drainage in the crop field	
Pea	Seed development/ Maturity	Powdery mildew/ leaf eating insects	 Harvest mature crops Need based foliar spray of Dinocap (0.2%) or Carbenda 50WP (0.1%) or Propiconazole (0.1%) using sticker if infestation is high. 	
Toria/ Mustard	Maturity	Aphids	 Harvest during clear/dry days If the infestation is high, Spray Dimethoate 30EC @2ml/ against aphids in Rapeseed/Mustard using sticker or du clear/dry days. 	
VEGETABLE				
Pre-summer vegetables	Sowing	Nursery insects	 Right time for transplanting the ready seedlings of c tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings follow raised bed for sowing Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in litres water/ha against nursery insects 	and
Cucurbits	Nursery/Sowing		 Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing. 	
French Bean	Sowing		 In present weather conditions, sowing of quality seeds may be done, Treat the seeds with Imidacloprid 17SL @1ml/litre kilogram seed before sowing. 	e/
Okra	Sowing		 Sowing advocated during clear/dry days Procure quality seed from certified agency. 	

Vototo	Vegetative stage/	Late blight/		High time to how out motions around
Potato	Harvesting stage	Red ant		High time to harvest mature crops If already harvested, Store in a cool, well ventilated
		ited unt		place/ do not wash before storing as dampness
				promotes early spoilage.
			*	Regularly monitor against the disease symptoms. Prominent
				symptoms include small, dark, circular to irregular shaped
			*	lesion in the leaves Prophylactic encouring of Managach @ 2 group per 4 litras of
			*	Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised
Ginger/ Turmeric	Maturity		*	Harvest the mature crop,
8			*	Cure should be taken while harvest so that the
				rhizome is not damaged,
HORTICULT	URAL CROPS		1	
Citrus	Flowering	Bark eating	•	Cleaning & smearing of trunk base with Bordeaux past
		caterpillar		during clear/dry days.
			•	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 i
				may affect pollination process.
			•	Spray (Planofix) NAA based growth regulator @2m/5li
				water during flowering stage in orange plant to reduc
				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.
Banana	All stages	Sigatoka Leaf	*	One sword sucker may be allowed after shooting (Flowering).
	C C	spot	*	Periodical removal of side suckers by cutting them above the
				ground level, scoop the core and pour 2 ml of kerosene in the
			*	core, Ealing approx of Propioanagola (a.g., Tilt) @ 1 ml nor litra of
			**	Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of water
Honey Bees	L			
			*	Box must be covered with straw/dry leaves to provide
				warmth
			1	
	-	D:		
Livestock	Stage	Disease		 Precautionary Practices to be followed
Livestock General	Stage		ta ha dir	
Livestock General & Damage	Stage d grain (not fung	is contaminated)		verted for Poultry/livestock feeding
Livestock General & Damage	Stage d grain (not fung rinking water sh	is contaminated)		verted for Poultry/livestock feeding
Livestock General & Damage & Clean d	Stage d grain (not fung rinking water sh	is contaminated)	d round	
Livestock General & Damage & Clean d cleaned,	Stage d grain (not fung rinking water sh	is contaminated)	d round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular
Livestock General Damage Clean d cleaned,	Stage d grain (not fung rinking water sh	is contaminated)	d round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond. Provide shelter to the backyard/scavenging poultry. Feed
Livestock General Damage Clean d cleaned, Fishery	Stage d grain (not fung rinking water sh	is contaminated)	d round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond. Provide shelter to the backyard/scavenging poultry. Fee grains in the morning/evening to supplement scavenging.
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Livestock General	Stage d grain (not fung rinking water sh	is contaminated)	d round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond. Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, Avoid dampness and cover weak and sick animals with
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Livestock General Seneral Damage Clean d cleaned, Fishery Poultry Pigs	Stage d grain (not fung rinking water sh All stages All stages All stages	is contaminated) fould be ensured	l round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond. Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight Deworming for gastrointestinal parasite Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3
General Clean d cleaned, Fishery Poultry Pigs Goat	Stage d grain (not fung rinking water sh All stages All stages All stages	is contaminated) fould be ensured	d round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond. Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight Deworming for gastrointestinal parasite Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born an
Livestock General	Stage d grain (not fung rinking water sh All stages All stages All stages	is contaminated) fould be ensured	i round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond. Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight Deworming for gastrointestinal parasite Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight. Provide proper bedding materials especially to new-born an lukewarm food & water
Livestock General Clean d cleaned, Fishery Poultry Pigs Goat Cattle	Stage d grain (not fung rinking water sh All stages All stages All stages All stages	Is contaminated) hould be ensured	i round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond. Provide shelter to the backyard/scavenging poultry. Fee grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight Deworming for gastrointestinal parasite Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born an lukewarm food & water Provide feed supplements
Livestock General	Stage d grain (not fung rinking water sh All stages All stages All stages All stages	Is contaminated) hould be ensured FMD	i round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond. Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight Deworming for gastrointestinal parasite Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born an lukewarm food & water Provide feed supplements K staff for measures against adverse conditions or call
Livestock General	Stage d grain (not fung rinking water sh All stages All stages All stages All stages	Is contaminated) hould be ensured FMD	i round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond. Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight Deworming for gastrointestinal parasite Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water

Agro-met Advisory Bulletin

(Period: 18th to 20th April, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

District: Upper Siang

No: AMFU-Basar/2018/31

Dated: Tue, 17th April, 2018



Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Rainfall = 33.4 mm	Partly cloudy with possibility of moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 26-27°C and 14°C respectively. Expected morning
	and evening relative humidity will be 65-86% and 32-55%
	respectively. Wind direction is mainly variable with speed range of
	3-6 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Pea	Seed development	Powdery mildew/ leaf eating insects	 Provide adequate drainage and avoid water stagnation near the base of the plants. Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Rice	Nursery/trans plantation	Stem borer	 Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. 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.
Toria/ Mustard	Vegetative/ Flowering		Provide proper drainage facilities for the toria grown in the WRC field to protect them against heavy rainfall.
VEGETABLE	÷		the WKC field to protect them against neavy rainan.
Cucurbits	Nursery/Sowing		 Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Potato	Maturity/ Harvesting	Late blight/ Red ant	 Harvesting of mature crops during clear/dry days Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall
Ginger/ Turmeric	Maturity		 Harvest the mature crop, Cure should be taken while harvest so that the rhizome is not damaged,
HORTICULT	URAL CROPS		
Large cardamom			Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation.
Citrus	Flowering	Bark eating caterpillar	 Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. 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

Livestock	Stage	Disease	 Precautionary Practices to be followed
LIVESTOCK	S		
Banana	Bunching	Cold	 Cover newly emerged bunches with locally available sack to protect from cold/frost Mulching with straw/crop residue at root zone to avoid frost injury in banana.
Apple	Flowering		 For woody aphid-Wipe the stem with cloth soaked in mineral oil. In bearing trees give a spray of Bordeaux mixture (copper sulphate (2Kg)+quick lime (2kg) in 200litres of water) against canker and other diseases.
Kiwi	Flowering		about 2cm, below the dead portion. * Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
			 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,

✤ General

- Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding
- Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,

cleaned,				
Poultry	All stages			Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Inclusion of turmeric powder @ 10g/kg feed for
			•	prevention of cocciodiosis.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the		Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
~		mouth and foot.) Swine Fever		
Cattle	All stages	FMD	* *	Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water Provide feed supplements
Fishery			*	To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Mithun		FMD		Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub- cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247				

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

Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका Agro-met Advisory Bulletin (Period: 18th to 20th April, 2018) 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: AMFU-Basar/2018/31

Dated: Tue, 17th April, 2018



Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Daporijo: 2.4 mm	Partly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 31°C and 18-19°C respectively. Expected morning
	and evening relative humidity will be 72-88% and 40-47%
	respectively. Expected wind direction is mainly SE & SSE with
	speed range of 2-4 kmph.
Warning	Thunderstorm in few isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
			FIELD CROPS
Pea	Seed development	Powdery mildew/ leaf eating insects	 Provide adequate drainage and avoid water stagnation near the base of the plants. Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Rice	Nursery/trans plantation	Stem borer	 Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. 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
Toria/ Mustard	Maturity	Aphids	 duration, dwarf and high yielding. Provide adequate drainage If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
			VEGETABLES
Pre-summer vegetables	Sowing	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
Cucurbits	Nursery/Sowing		 Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Potato	Maturity/ Harvesting	Late blight/ Red ant	 Harvesting during clear/dry days Proper sun-drying before storage Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall
Citrus	Flowering		ICULTURAL CROPS
Citrus	Flowering	Bark eating caterpillar	 Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. Cleaning & smearing of trunk base with Bordeaux paste

			٠	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,
Appla	Flowering		*	about 2cm, below the dead portion.For woody aphid-Wipe the stem with cloth soaked in mineral
Apple	Flowering		***	oil.
			*	
				sulphate (2Kg)+quick lime (2kg) in 200litres of water) against
				canker and other diseases.
Kiwi	Flowering		*	Kiwi fruit vine should be covered with 50% shade net to
				protect flowers from heavy rain and hail storm.
Temperate fruits	After harvesting		*	Training & pruning of the temperate crops (apple/pears/peach)
				is recommended
			Hone	ey Bees
Honey bees				Provide sugar syrup near the box
			*	Add insulation and ventilation systems
	T		LIVES	STOCKS
Livestock	Stage	Disease		Precautionary Practices to be followed
	•			neral
0 0				ed for Poultry/livestock feeding
• Clean drinki Fishery	ng water should f	be ensured round		Ex and water troughs/feeders should be regularly cleaned, To avoid water turbidity, use grass turfing or horticultural
Fishery			•	crop at embankment/dyke of the earthen fish pond.
Poultry	All stages		*	
I Outry	7 III stages		•	grains in the morning/evening to supplement scavenging.
			*	Inclusion of turmeric powder @ 10g/kg feed for
				prevention of cocciodiosis.
Pigs	All stages	FMD (high fever	*	Avoid dampness and cover weak and sick animals with
		and appearance		sack cloth.
		of mucous membrane of the	**	The bedding is always dry and that there is plenty.
		mouth and foot.)	*	If possible wooden sleeping box should be provided.
		Swine Fever	*	Animals should be given lukewarm feed and water.
			*	Right time to deworm with anti helmetic drugs (particularly
				Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Cattle	All stages	FMD	*	Animals should be given lukewarm feed and water.
	8			
			*	Right time to deworm with anti helmetic drugs
			*	(particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30
				(particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
				(particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30
			*	(particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water Provide feed supplements
Mithun		FMD	*	 (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water Provide feed supplements Polyvalent FMD vaccine with serotype O, A and Asia at 6
Mithun			*	 (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water Provide feed supplements Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-
Mithun			*	 (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water Provide feed supplements Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route.
Mithun			*	 (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water Provide feed supplements Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-
		FMD	* * *	 (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water Provide feed supplements Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route. Pregnant animals above 7 months of pregnancy should be

Agro-met Advisory Bulletin

(Period: 18th to 20th April, 2018)



ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: West Kameng

<u>No: AMFU-Basar/2018/31</u>

Dated: Tue, 17th April, 2018



Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Rainfall = Bomdila: 0.0 ; Bhalukpong: 28.4	Partly cloudy/sunny with possibility moderate rain. Daily
mm	maximum and minimum temperature for the following period is
	predicted to be 29-33°C and 21-22°C respectively. Expected
	morning and evening relative humidity will be 78-96% and 40-57%
	respectively. Wind direction is mainly WNW with speed range of 5
	kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROP			
Jhum Rice	Land Preparation		 Arrangement of quality seeds, Make structures to avoid runoff in the slope, ICAR Basar recommends procuring quality seeds of Bhalum1,2,3 & 4 in Jhum apart from the local varieties.
			 Sowing to be done on clear/dry days Intercropping of leguminous crops (cowpea /frenchbean /soybean) at 2-3 rows across the slope in jhum field at desirable interval with rice advocated.
Pea	Seed development	Powdery mildew/ leaf eating insects	 Provide adequate drainage and avoid water stagnation near the base of the plants. Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Toria/ Mustard	Maturity	Aphids	 Provide adequate drainage If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLE	2S		
Cucurbits	Nursery/Sowing		 Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing. Transplant during clear/dry days
Potato	Vegetative stage/ Harvesting stage	Late blight/ Red ant	 Avoid harvesting during current weather Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall
HORTICULT	URAL CROPS		
Kiwi	Flowering		Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
Apple	Flowering		 For woody aphid-Wipe the stem with cloth soaked in mineral oil. In bearing trees give a spray of Bordeaux mixture (copper sulphate (2Kg)+quick lime (2kg) in 200litres of water) against canker and other diseases.
Banana	Bunching	Cold	 Cover newly emerged bunches with locally available sack to protect from cold/frost
LIVESTOCK	S		L
Livestock	Stage	Disease	Precautionary Practices to be followed
			✤ General
	lrinking water sh		to be diverted for Poultry/livestock feeding I round the clock and water troughs/feeders should be regularly
Fishery			To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Yak	All stages		Feeding of concentrate feed along with mineral mixture and salt.
Poultry	All stages		 Hay feeding is recommended. Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, In present weather conditions protect the birds from cold by mine arms have (alority charter space) of the provide sheat of the pr
			 using gunny bags/plastic sheets around the poultry shed during night, Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the	sack cloth. The bedding is always dry and that there is plenty.

membrane of the

		mouth and foot.)	*	If possible wooden sleeping box should be provided.	
		Swine Fever	*		
		Swille I ever		Animals should be given lukewarm feed and water.	
			*	Right time to deworm with anti helmetic drugs (particularly	
				Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.	
Cattle	All stages	FMD	*	Animals should be given lukewarm feed and water.	
			*	Right time to deworm with anti helmetic drugs	
				(particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30	
				kg body weight.	
			*	Provide proper bedding materials especially to new-born and	
				lukewarm food & water	
			*	Heavy mortality in cloven footed animals has been reported.	
			*	Supportive treatment of infected animals under supervision of veterinary department officials,	
			*	Avoid mixing of infected and healthy animals,	
			*	Keep infected animals separated from the healthy ones,	
			*	Vaccinate the healthy animals against FMD (Through State Veterinary Dept.)	
			*	Provide feed supplements	
Mithun		FMD	*	Polyvalent FMD vaccine with serotype O, A and Asia at 6	
				months of age and repeat after that 6 months interval by sub-	
				cutaneous route.	
			*	Pregnant animals above 7 months of pregnancy should be	
				avoided.	
Contact Scien	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247				

कृषि मौसम सलाहकार सेवा पत्रिका Agro-met Advisory Bulletin

(Period: 18th to 20th April, 2018)

ग्रामीण कृषि मौसम सेवा



GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

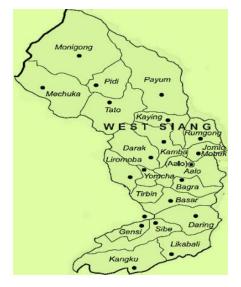


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

District: West Siang

No: AMFU-Basar/2018/31

Dated: Tue, 17th April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 21 st April 2018
Basar: Rainfall = 10.4 mm . T. Max: 30.8° C,	Partly cloudy with possibility of Moderate rainfall. Daily
T. Min: 12.5°C, RH: 45-96%, Wind Speed:	maximum and minimum temperature for the following period is
4-7 kmph, Wind Direction: NNW & SW	predicted to be 31-32°C and 19-20°C respectively. Expected
	morning and evening relative humidity will be 59-83% and 27-53%
	respectively. Wind direction is mainly SE & ENE with speed range
	of 2-5 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROP Rice	S Nursery/trans plantation	Stem borer	 Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. 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
Jhum field	Sowing		 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. 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.
Pea	Seed development	Powdery mildew/ leaf eating insects	 Provide adequate drainage and avoid water stagnation near the base of the plants. Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Maize	Sowing		 Treat the seeds before sowing with Captan 50% WP @2g/kg seed, Make proper drainage in the crop field
Toria/ Mustard	Maturity	Aphids	 Provide adequate drainage If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLE Pre-summer vegetables	Sowing	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
Cucurbits	Nursery/Sowing		 Prepare nursery in shaded area Procure quality seed from certified agency. Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
French Bean	Sowing		 Sowing can be done in raised bunds Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Okra	Sowing		 Procure quality seed from certified agency. Sowing during clear dry days in raised bunds Provide proper drainage to already sown crops

Potato	Maturity/		*	Harvesting can be done in clear/dry days
	Harvesting		*	Proper sun-drying before storage.
Cabbage/ Cauliflower	Harvesting			Harvest mature crop. Constantly monitor against attack of insects pests/mole.
Ginger/ Turmeric	Maturity			Harvest the mature crop,
			*	Cure should be taken while harvest so that the
			*	rhizome is not damaged,
HORTICULT	URAL CROPS	I	·	
Large cardamom	Sowing		*	Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation.
Citrus	Flowering	Bark eating	•	Cleaning & smearing of trunk base with Bordeaux paste
		caterpillar	•	during clear/dry days. 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,
Kiwi	Flowering			about 2cm, below the dead portion. Kiwi fruit vine should be covered with 50% shade net to
IXI WI	riowering			protect flowers from heavy rain and hail storm.
Apple	Flowering		*	For woody aphid-Wipe the stem with cloth soaked in mineral
Tippio	1 to woring		•	oil.
			*	In bearing trees give a spray of Bordeaux mixture (copper
				sulphate (2Kg)+quick lime (2kg) in 200litres of water) against
				canker and other diseases.
Pineapple	Harvesting		*	After winter harvest, collection/Selection of suckers & slip to be done for next season planting.
HONEY BEES				
Honey bees			*	Cover the boxes with locally available dry grass or straw to provide warmt
LIVESTOCKS	5			
Livestock	Stage	Disease		 Precautionary Practices to be followed
Fishery			*	To avoid water turbidity, use grass turfing or horticultural
	A 11			crop at embankment/dyke of the earthen fish pond.
Poultry	All stages			Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.
				Day old chick-Maintain warmth by lighting,
			***	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
				prevention of coccioulosis.
Pigs	All stages	FMD (high fever	*	Avoid dampness and cover weak and sick animals with
Pigs	All stages	FMD (high fever and appearance	*	Avoid dampness and cover weak and sick animals with sack cloth.
Pigs	All stages	and appearance of mucous	* *	sack cloth.
Pigs	All stages	and appearance of mucous membrane of the	* * *	-
Pigs	All stages	and appearance of mucous membrane of the mouth and foot.)	*	sack cloth. Animals should be given lukewarm feed and water.
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		and appearance of mucous membrane of the mouth and foot.) Swine Fever	* *	 sack cloth. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs
		and appearance of mucous membrane of the mouth and foot.) Swine Fever	*	 sack cloth. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30
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