# **Agro-met Advisory Bulletin**

(Period: 29<sup>th</sup> April to 1<sup>st</sup> May, 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:** Anjaw

<u>No: AMFU-Basar/2018/34</u>

Dated: Fri, 27th April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
No weather summary available	<b>Partly/mostly cloudy with possibility of light/moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 25°C and 16°C respectively. Expected morning and evening relative humidity will be 90-92% and 41-62% respectively. Wind direction is mainly NE 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	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Jhum field	Sowing		<ul> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> </ul>
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul> <li>Provide adequate drainage and avoid water stagnation near the base of the plants.</li> <li>Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
Toria/ Mustard	Maturity	Aphids	<ul> <li>Provide adequate drainage</li> <li>If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.</li> </ul>
VEGETABLE	<b>C</b>	l	
Ginger/ Turmeric			<ul> <li>Harvest the mature crop on clear day,</li> <li>Cure should be taken while harvest so that the rhizome is not damaged,</li> </ul>
Summer vegetables	Sowing		<ul> <li>Right time for transplantation of healthy seedlings to main field from nursery</li> <li>Sowing advocated during clear/dry days</li> <li>Provide adequate drainage to already sown crops</li> </ul>
Potato	Vegetative stage/ Harvesting stage		<ul> <li>Harvesting only during clear/dry days</li> <li>Store already harvested crops in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.</li> </ul>
Cabbage/ Cauliflower	Harvesting		<ul> <li>Harvest mature crop.</li> <li>Constantly monitor and state to a financial monthly and the second state of the</li></ul>
	URAL CROPS		Constantly monitor against attack of insects pests/mole.
Citrus	Flowering	Bark eating caterpillar	<ul> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop</li> <li>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> <li>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</li> </ul>
Orchards (Orange, Banana, Apple, Peach etc)			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

Large cardamom	Sowing			Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation. Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.
LIVESTOCKS	5			
Livestock	Stage	Disease		Precautionary Practices to be followed
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	*	Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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.
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,
Fishery				To avoid water turbidity, use grass turfing or horticultura 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 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 o pregnancy should be avoided from vaccination.

# **Agro-met Advisory Bulletin**

(Period: 29<sup>th</sup> April to 1<sup>st</sup> May, 2018)



ग्रामीण कृषि मौसम सेवा

**GRAMIN KRISHI MAUSAM SEWA** 





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

## **District: Changlang**

<u> No: AMFU-Basar/2018/34</u>

Dated: Fri, 27<sup>th</sup> April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall = Changlang: 0.0 mm Miao: 19.4 mm (up to 17 <sup>th</sup> April)	<b>Partly/mostly cloudy with possibility of moderate rain.</b> Daily maximum and minimum temperature for the following period is predicted to be 30-31°C and 20-21°C respectively. Expected morning and evening relative humidity will be 58-94% and 21-53% respectively. Wind direction is mainly SE & 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	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> </ul>
			<ul> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> </ul>
			• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Maize	Vegetative	Soybean looper	<ul> <li>Spraying of Quinalphos 25 EC 2ml/litre of water is advised,</li> <li>Monitor the crop against attack of insect pests,</li> </ul>
			<ul> <li>Make proper drainage in the crop field,</li> </ul>
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.
			<ul> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety</li> </ul>
			• Cowpea variety (Kashi Kalchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
Pea	Seed development/ maturity	Powdery mildew/ leaf eating insects	<ul> <li>Harvest mature crops</li> <li>Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
VEGETABLE	S		
Pre-summer vegetables	Sowing	Nursery insects	<ul> <li>Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> </ul>
			<ul> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> </ul>
			<ul> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects</li> </ul>
Cucurbits	Nursery/Sowing		<ul> <li>Prepare nursery in shaded area</li> <li>Procure quality seed from certified agency.</li> <li>Treat the seeds with Imidacloprid 17SL</li> </ul>
			<ul> <li>@1ml/litre/ kilogram seed before sowing.</li> <li>Transplant during clear/dry days in a raised plot with proper drainage</li> </ul>
French Bean	Sowing		<ul> <li>In present weather conditions, sowing of quality seeds may be done,</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/</li> </ul>
Okra	Sowing		<ul> <li>kilogram seed before sowing.</li> <li>Procure quality seed from certified agency.</li> </ul>
Potato	Maturity/		<ul> <li>Avoid sowing during rainy days</li> <li>Harvesting can be done on clear/dry days</li> </ul>
	Harvesting		<ul> <li>If already harvested, store in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.</li> </ul>
Ginger/ Turmeric	Maturity		<ul> <li>Harvest the mature crop,</li> <li>Cure should be taken while harvest so that the rhizome is not damaged,</li> </ul>
HORTICULT			
Citrus	Flowering	Bark eating caterpillar	<ul> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> </ul>

Large cardamom Banana	Sowing Bunching	Cold	• • • * *	Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. <b>Spray (Planofix) NAA based growth regulator @2m/5lit</b> 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. Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation. <b>Applications of well decomposed cattle manure/compost</b> <b>@5kg/plant during clear/dry days.</b> Cover newly emerged bunches with locally available sack to protect from cold/frost <b>Mulching with straw/crop residue at root zone to avoid frost injury in banana.</b>
HONEY BEES	5			
Honey bees	2			Box must be covered with straw/dry leaves to provide warmth Provide sugar syrup
Livestock		Disease		• Drogoutionom Prosting to be followed
LIVESLOCK	Stage	Disease	<b>.</b>	Precautionary Practices to be followed General
Clean d cleaned, Pigs		FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * *	the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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.
Poultry	All stages		* *	Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.
	All stages			Deworming for gastrointestinal parasite
Goat		FMD		Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30
Goat Cattle	All stages	PMD		kg bod Provide



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(Period: 29<sup>th</sup> April to 1<sup>st</sup> May, 2018)

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**GRAMIN KRISHI MAUSAM SEWA** 

(Integrated Agro-Meteorological Advisory Services)



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

## **District: Dibang Valley**

No: AMFU-Basar/2018/34

Dated: Fri, 27<sup>th</sup> April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall = 1.0 mm (Anini) (up to 17 <sup>th</sup> April)	<b>Partly/mostly cloudy with possibility of light/moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 22-23°C and 13°C respectively. Expected morning and evening relative humidity will be 92-96% and 46-73% respectively. Wind direction is mainly SE & ESE with speed range of 4-6 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	Stage	I est/Disease	Trecautionary Tractices to be followed
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul> <li>Provide adequate drainage and avoid water stagnation near the base of the plants.</li> <li>Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
Rice	Nursery/trans plantation	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Jhum field	Sowing		<ul> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> </ul>
Toria/ Mustard	Maturity	Aphids	<ul> <li>Provide adequate drainage</li> <li>If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.</li> </ul>
VEGETABLE	S		
Cucurbits	Nursery/Sowing		<ul> <li>Prepare nursery in shaded area</li> <li>Procure quality seed from certified agency.</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.</li> </ul>
Potato	Maturity/ Harvesting		<ul> <li>Harvesting recommended during clear/dry days</li> <li>Store already harvested potatoes in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.</li> </ul>
HORTICULT			
Citrus	Flowering	Bark eating caterpillar	<ul> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop</li> <li>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> <li>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</li> </ul>
Large cardamom			<ul> <li>Sowing in primary nursery bed at 2cm depth &amp; 10cm apart with mulching &amp; regular irrigation.</li> </ul>
Kiwi	Flowering		<ul> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> </ul>
Apple	Flowering		<ul> <li>For woody aphid-Wipe the stem with cloth soaked in mineral oil.</li> <li>In bearing trees give a spray of Bordeaux mixture (copper</li> </ul>

				sulphate (2Kg)+quick lime (2kg) in 200litres of water) against
				canker and other diseases.
Honey Bees	T			
Honey bees			*	Cover the boxes with locally available dry grass or straw to
				provide warmth
			*	Provide sugar syrup in a bowl in front of the box in case of heavy rainfall
LIVESTOCKS	5			
Livestock	Stage	Disease		Precautionary Practices to be followed
			*	General
	rinking water s			verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular
Pigs	All stages	FMD (high fever	*	Food waste or garbage fed to swine must be cooked and
		and appearance		sterilized properly. Cooking the different raw materials
		of mucous		together is advocated to improve digestibility and to
		membrane of the		break- down toxins from some feeds.
		mouth and foot.) Swine Fever	*	Avoid dampness and cover weak and sick animals with sack
		Swille rever		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 horticultura
				crop at embankment/dyke of the earthen fish pond.
Poultry	All stages		*	Provide shelter to the backyard/scavenging poultry. Fee
5	e			grains in the morning/evening to supplement scavenging.
			*	Inclusion of turmeric powder @ 10g/kg feed fo
				prevention of cocciodiosis.
Cattle	All stages	FMD	*	8
				(particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30
			*•	<b>kg body weight.</b> Supportive treatment of infected animals under supervision o
			•	veterinary department of ficials,
			*	Avoid mixing of infected and healthy animals,
			*	
			*	Vaccinate the healthy animals against FMD (Through Stat
				Veterinary Dept.)
				Provide feed supplements
Mithun		FMD	*	Polyvalent FMD vaccine with serotype O, A and Asia at a
				months of age and repeat after that 6 months interval by sub cutaneous route.
			*	Pregnant animals above 7 months of pregnancy should be
			•	avoided.
<b>Contact Scienti</b>	ists (ICAR) or St	ate Agril Staff or K	VK sta	aff for measures against adverse conditions or call at 03795-
				7/226247

## **Agro-met Advisory Bulletin**

( Period: 29th April to 1st May, 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/2018/34</u>

Dated: Fri, 27<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall = 5.3 mm (up to 17 <sup>th</sup> April)	<b>Partly/Mostly cloudy with possibility moderate rain.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 18°C respectively. Expected morning and evening relative humidity will be 74-94% and 35-68% respectively. Expected wind direction is mainly variable with speed range of 3-5 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 CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Jhum field	Sowing		<ul> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> </ul>
Maize	Sowing		<ul> <li>Treat the seeds before sowing with Captan 50% WP @2g/kg seed,</li> <li>Make proper drainage in the crop field</li> </ul>
Pea	Pod mature	Birds	<ul> <li>Avoid water stagnation near base of the plants</li> <li>Harvest of green pods,</li> <li>Use of scare crow and tying of bird scare tape around the crop field,</li> </ul>
			✤ VEGETABLES
Pre-summer vegetables	Sowing	Nursery insects	<ul> <li>Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects</li> </ul>
Cucurbits	Nursery/Sowing		<ul> <li>Prepare nursery in shaded area</li> <li>Procure quality seed from certified agency.</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.</li> </ul>
Potato	Maturity/ harvesting		Harvest only during clear/dry days
HORTICULT Citrus	URAL CROPS Flowering	Bark eating	Cleaning & smearing of trunk base with Bordeaux paste
	riowening	caterpillar	<ul> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste during clear/dry days.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop</li> <li>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> <li>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</li> </ul>
Banana	Bunching	Cold	<ul> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> <li>Mulching with straw/crop residue at root zone to avoid frost injury in banana.</li> </ul>
Large Cardamom	Vegetative/ flowering stage		<ul> <li>Provide proper drainage to avoid water stagnation in the base of the plants.</li> </ul>

Livestock	Stage	Disease	Precautionary Practices to be followed
			✤ General
✤ Damaged	l grain (not fun	gus contaminated) to	be diverted for Poultry/livestock feeding
* Clean dr	inking water s	should be ensured	round the clock and water troughs/feeders should be regul
cleaned,			
Pigs	All stages	FMD (high fever	<b>*</b> Food waste or garbage fed to swine must be cooked and
		and appearance	sterilized properly. Cooking the different raw materials
		of mucous membrane of the	together is advocated to improve digestibility and to
		mouth and foot.)	break- down toxins from some feeds.
		Swine Fever	$\diamond$ Avoid dampness and cover weak and sick animals with sack
			cloth.
			The bedding is always dry and that there is plenty.
			<ul> <li>Animals should be given lukewarm feed and water.</li> </ul>
			✤ Right time to deworm with anti helmetic drugs (particularly
			Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weig
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 weig
Goat	All stages		<ul> <li>Deworming for gastrointestinal parasite</li> </ul>
Fishery			* To avoid water turbidity, use grass turfing or horticultu
			crop at embankment/dyke of the earthen fish pond.
Cattle All stages	All stages	FMD	<ul> <li>Right time to deworm with anti helmetic drugs</li> </ul>
		(particularly Tapeworms) viz. Fento Plus @ 1 tablet per	
		kg body weight.	
			Provide proper bedding materials especially to new-born a lukewarm food & water
			<ul> <li>Provide feed supplements</li> </ul>
			VK staff for measures against adverse conditions or call at 0379.

## **Agro-met Advisory Bulletin**

( Period: 29th April to 1st May, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

### **District: East Siang**

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall: 104.8 mm; T. Max: 32.0°C; T. Min:	Partly/Mostly cloudy with possibility of light/moderate rainfall.
18.0°C ; RH: 54-100% (up to 17 <sup>th</sup> April)	Daily maximum and minimum temperature for the following period
	is predicted to be 30-31°C and 20-21°C respectively. Expected
	morning and evening relative humidity will be 74-94% and 33-84%
	respectively. Expected wind direction is NNW & W variable 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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROP Maize	Vegetative	Soybean looper	<ul> <li>Spraying of Quinalphos 25 EC 2ml/litre of water is advised,</li> <li>Monitor the crop against attack of insect pests,</li> <li>Make proper drainage in the crop field,</li> </ul>
Rice	Nursery/trans plantation	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Jhum field	Sowing		<ul> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> </ul>
Pea	Pod mature	Birds	<ul> <li>Harvest of green pods,</li> <li>Use of scare crow and tying of bird scare tape around the crop field,</li> </ul>
Toria/ Mustard	Maturity/ Harvesting	Aphid	<ul> <li>Harvesting of mature crop,</li> <li>If only infestation is high, Spraying of dimethoate @ 2 ml per litre of water is advised using proper sticker,</li> </ul>
VEGETABLE	S		
Pre-summer vegetables	Sowing	Nursery insects	<ul> <li>Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects</li> </ul>
Cucurbits Potato	Nursery/Sowing Maturity/ Harvesting stage	Red ant	<ul> <li>Prepare nursery in shaded area</li> <li>Procure quality seed from certified agency.</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.</li> <li>Right time to harvest mature crops during dry days</li> <li>If already harvested, Store in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.</li> </ul>
French Bean	Sowing		<ul> <li>Can be sown on clear/dry days</li> </ul>
Okra	Sowing		<ul> <li>Sowing during clear/dry days making bunds.</li> <li>Procure quality seed from certified agency.</li> </ul>
HORTICULT	URAL CROPS		
Citrus	Flowering	Bark eating caterpillar/ <b>Blackfly/ Mites</b>	<ul> <li>About 50% eggs laid by the citrus blackfly hatch during 2<sup>nd</sup> half of April month. The nymphs and adults both suck cell sap from young leaves and twigs. Spray Monocrotophos 10 ml or Quinalphos 15 ml per liter os water with second spray after 15 days on clear/dry days or using stickers.</li> <li>Against mites, spray Dicofol 1.8EC @ 15ml/liter of water during clear/dry weather.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste during clear/dry days.</li> </ul>

Livestock	Stage	Disease	Precautionary Practices to be followed
LIVESTOCKS	5		
Honey bees			<ul> <li>Cover the boxes with locally available dry grass or straw to provide warmth</li> </ul>
Honey Bees			
			<ul> <li>Applications of wen decomposed cattle manure/compost</li> <li>@5kg/plant during clear/dry days.</li> </ul>
			<ul> <li>with mulching &amp; regular irrigation.</li> <li>Applications of well decomposed cattle manure/compost</li> </ul>
Large cardamom	Sowing		Sowing in primary nursery bed at 2cm depth & 10cm apart
			• For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.
			fruit/flower drop
			• Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce
			• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.
			• Cleaning & smearing of trunk base with Bordeaux paste
			• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.

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,				
Fishery			*	To avoid water turbidity, use grass turfing or horticultur crop at embankment/dyke of the earthen fish pond.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * * *	Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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 weigh
Poultry	All stages		*	Provide shelter to the backyard/scavenging poultry. Fee 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.
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 3 kg body weight. Provide proper bedding materials especially to new-born a lukewarm food & water

at 03795-226237/226247

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

Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Past weather summary not available	Partly/mostly cloudy with possibility of light/moderate rain.
	Daily maximum and minimum temperature for the following period
	is predicted to be 22-23°C and 13°C respectively. Expected morning
	and evening relative humidity will be 80-96% and 57-83%
	respectively. Wind direction is mainly variable with wind speed
	range of 3-6 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

	Stage	Pest/Disease	Precautionary Practices to be followed
Crop FIELD CROP			
Rice	Nursery/trans plantation	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Jhum Rice	Land Preparation		<ul> <li>Arrangement of quality seeds,</li> <li>Make structures to avoid runoff in the slope,</li> <li>ICAR Basar recommends procuring quality seeds of Bhalum1,2,3 &amp; 4 in Jhum apart from the local varieties.</li> <li>Sowing to be done on clear/dry days</li> <li>Intercropping of leguminous crops (cowpea /frenchbean /soybean) at 2-3 rows across the slope in jhum field at desirable interval with rice advocated.</li> </ul>
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul> <li>Provide adequate drainage and avoid water stagnation near the base of the plants.</li> <li>Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
Toria/ Mustard	Maturity	Aphids	<ul> <li>Provide adequate drainage</li> <li>If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.</li> </ul>
VEGETABLE			
Cucurbits Summer vegetables	Nursery/Sowing Sowing		<ul> <li>Prepare nursery in shaded area</li> <li>Procure quality seed from certified agency.</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.</li> <li>Sowing advocated during clear/dry days</li> </ul>
Potato	Vegetative stage/ Harvesting stage	Late blight/ Red ant	<ul> <li>Harvesting during clear/dry days</li> <li>Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves</li> <li>Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of</li> </ul>
Cabbaga/	Horworting		water is advised using stickers in case of rainfall
Cabbage/ Cauliflower	Harvesting		✤ Harvest mature crop.
Cauliflower	Harvesting		✤ Harvest mature crop.
Cauliflower	URAL CROPS		<ul> <li>Harvest mature crop.</li> <li>Constantly monitor against attack of insects pests/mole.</li> <li>Sowing in primary nursery bed at 2cm depth &amp; 10cm apart</li> </ul>
Cauliflower HORTICULT	URAL CROPS	Bark eating caterpillar	<ul> <li>Harvest mature crop.</li> <li>Constantly monitor against attack of insects pests/mole.</li> </ul>

			*	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 <b>Mulching with straw/crop residue at root zone to avoid</b> <b>frost injury in banana.</b>
Honey Bees				
			*	Box must be covered with straw/dry leaves to provide warmth

#### LIVESTOCKS General

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

Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,

Livestock	Stage	Disease		Precautionary Practices to be followed
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * * *	Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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		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
Poultry	All stages		*	Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.
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

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# कृषि मौसम सलाहकार सेवा पत्रिका Agro-met Advisory Bulletin (Period: 29<sup>th</sup> April to 1<sup>st</sup> May, 2018)



ग्रामीण कृषि मौसम सेवा

**GRAMIN KRISHI MAUSAM SEWA** 



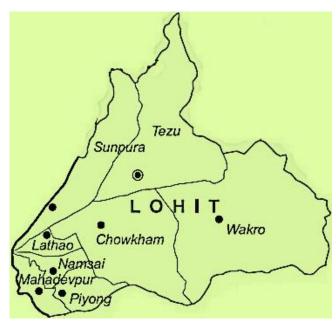


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

### **District:** Lohit

No: AMFU-Basar/2018/34

Dated: Fri, 27<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall = 42.4 mm	Partly/mostly cloudy with possibility of moderate rainfall. Daily
(up to 17 <sup>th</sup> April)	maximum and minimum temperature for the following period is
	predicted to be 29°C and 19-20°C respectively. Expected morning and
	evening relative humidity will be 75-90% and 28-64% respectively.
	Wind direction is mainly ENE 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 poly-houses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing.

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROP			
Rice	Nursery/trans plantation	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Maize	Vegetative	Soybean looper	<ul> <li>Spraying of Quinalphos 25 EC 2ml/litre of water is advised,</li> <li>Monitor the crop against attack of insect pests,</li> <li>Make proper drainage in the crop field,</li> </ul>
Jhum field	Sowing		<ul> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> </ul>
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul> <li>Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
VEGETABLE	S		
Pre-summer vegetables	Sowing	Nursery insects	<ul> <li>Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects</li> </ul>
Cucurbits	Nursery/Sowing		<ul> <li>Prepare nursery in shaded area</li> <li>Procure quality seed from certified agency.</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.</li> </ul>
French Bean	Sowing		<ul> <li>Sowing of quality seeds advocated</li> </ul>
Okra	Sowing		<ul> <li>Proper drainage to already sown crops</li> <li>Avoid fresh sowing</li> </ul>
Potato	Maturity/ Harvesting	Late blight/ Red ant	<ul> <li>Immediate harvesting advocated during clear/dry days</li> <li>Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves</li> <li>Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall</li> </ul>
Ginger/ Turmeric	Maturity		<ul> <li>Harvest the mature crop,</li> <li>Cure should be taken while harvest so that the rhizome is not damaged,</li> </ul>
HORTICULT			
Citrus	Flowering	Bark eating caterpillar	<ul> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste during clear/dry days.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop</li> </ul>

Vivi	Druning/Training		•	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. Diseased and senile branches should be removed.
Kiwi	Pruning/Training		*	<ul> <li>Diseased and senile branches should be removed.</li> <li>Pruning should be done retaining 8-10 buds per branch for enhancing new flush and flowering.</li> <li>Pruned healthy hard wood of pencil thickness size having 4-5 buds can be used as cutting for propagation</li> </ul>
Large Cardamom	Fruiting	Chirkey Disease	*	Remove dry/diseased/old tillers & branches & spray Bio NPK@ 2ml/lit water for proper growth on clear/dry days.
Banana	All 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 wate using stickers
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
LIVESTOCK				
<ul> <li>Damage</li> </ul>	d grain (not fung	us contaminated) t	to be di	General verted for Poultry/livestock feeding
<ul><li>✤ Damage</li><li>♦ Clean d</li><li>cleaned,</li></ul>	d grain (not fung rinking water sh	us contaminated) t nould be ensured	to be di round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly
<ul><li>✤ Damage</li><li>❖ Clean d</li></ul>	d grain (not fung	us contaminated) t	to be di round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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
<ul><li>✤ Damage</li><li>♦ Clean d</li><li>cleaned,</li></ul>	d grain (not fung rinking water sh	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	to be di round * * * *	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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. Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting,
<ul> <li>Damaged</li> <li>Clean d cleaned, Pigs</li> </ul>	d grain (not fung rinking water sh All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	to be di round * * * * * *	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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. 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
<ul> <li>Damaged</li> <li>Clean d cleaned,</li> <li>Pigs</li> <li>Poultry</li> </ul>	d grain (not fung rinking water sh All stages All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	to be di round * * * * * *	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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. 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.

## **Agro-met Advisory Bulletin**

( Period: 29th April to 1st May, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

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

<u>No: AMFU-Basar/2018/34</u>

Dated: Fri, 27<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall = 98.0 mm (Roing) (up to $17^{th}$	Partly/mostly cloudy with possibility of light/moderate rainfall.
April)	Daily maximum and minimum temperature for the following period
	is predicted to be 27-28°C and 18°C respectively. Expected morning
	and evening relative humidity will be 86-93% and 38-71%
	respectively. Wind direction is mainly ESE with speed range of 4-6
	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
- 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			
Rice	Nursery/trans plantation	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Maize	Vegetative	Soybean looper	<ul> <li>Spraying of Quinalphos 25 EC 2ml/litre of water is advised,</li> <li>Monitor the crop against attack of insect pests,</li> <li>Make proper drainage in the crop field,</li> </ul>
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul> <li>Provide adequate drainage and avoid water stagnation near the base of the plants.</li> <li>Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
Jhum field	Sowing		<ul> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> </ul>
Toria/ Mustard	Maturity	Aphids	<ul> <li>Provide adequate drainage</li> <li>If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.</li> </ul>
VEGETABLE	S		
Pre-summer vegetables	Sowing	Nursery insects	<ul> <li>Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects</li> </ul>
Cucurbits	Nursery/Sowing		<ul> <li>Prepare nursery in shaded area</li> <li>Procure quality seed from certified agency.</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.</li> </ul>
French Bean	Sowing		<ul> <li>Sowing can be done during clear/dry days</li> </ul>
Okra	Sowing		<ul> <li>Avoid sowing</li> <li>Provide adequate drainage to already sown crops</li> </ul>
Potato	Vegetative stage/ Harvesting stage		<ul> <li>Avoid harvesting</li> </ul>
	URAL CROPS		
Large cardamom			<ul> <li>Sowing in primary nursery bed at 2cm depth &amp; 10cm apart with mulching &amp; regular irrigation.</li> <li>Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.</li> </ul>
Citrus	Flowering	Bark eating caterpillar/ <b>Blackfly/ Mites</b>	• About 50% eggs laid by the citrus blackfly hatch during 2 <sup>nd</sup> half of April month. The nymphs and adults both suck cell sap from young leaves and twigs. Spray Monocrotophos 10 ml or Quinalphos 15 ml per liter os water with second spray after 15 days on clear/dry days or using stickers.

Honey Bees			•	Against mites, spray Dicofol 1.8EC @ 15ml/liter of water during clear/dry weather. 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.
Honey bees			*	Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS				warmen
Livestock	Stage	Disease		Precautionary Practices to be followed
LIVESTOCK	Blage	Discuse	*	General
	i gram (not rung			verted for Poultry/livestock feeding
<ul> <li>Clean dr cleaned,</li> </ul>				the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and
Clean dr	rinking water s	hould be ensured FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * *	Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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.
<ul> <li>Clean dr cleaned,</li> </ul>		FMD (high fever and appearance of mucous membrane of the mouth and foot.)	* * *	Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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.
Clean dr cleaned, Pigs		FMD (high fever and appearance of mucous membrane of the mouth and foot.)	* * * * *	Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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. To avoid water turbidity, use grass turfing or horticultural
Clean dr cleaned, Pigs Fishery	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	* * * * *	<ul> <li>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</li> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>The bedding is always dry and that there is plenty.</li> <li>Animals should be given lukewarm feed and water.</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</li> <li>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</li> <li>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</li> <li>Day old chick-Maintain warmth by lighting,</li> <li>Inclusion of turmeric powder @ 10g/kg feed for</li> </ul>

## **Agro-met Advisory Bulletin**

(Period: 29<sup>th</sup> April to 1<sup>st</sup> May, 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: Lower Subansiri**

<u>No: AMFU-Basar/2018/34</u>

Dated: Fri, 27<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall = NA	Partly/mostly cloudy with possibility of moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 29°C and 19-20°C respectively. Expected morning
	and evening relative humidity will be 80-96% and 45-79%
	respectively. Wind direction is mainly SE & SSE 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
- 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			
Rice Jhum field	Nursery/trans plantation Sowing	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> </ul>
			<ul> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> </ul>
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul> <li>Provide adequate drainage and avoid water stagnation near the base of the plants.</li> <li>Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
Toria/ Mustard	Seed formation/ ripening	Aphids	<ul> <li>Suspend spray operations.</li> <li>Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard on clear/dry days.</li> </ul>
VEGETABLE	S		
Pre-summer vegetables Potato	Sowing Vegetative stage/ Harvesting stage	Nursery insects	<ul> <li>Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects</li> <li>Avoid harvesting under current weather condition. (Harvest only during clear/dry days)</li> </ul>
HORTICULT	URAL CROPS		
Large cardamom			<ul> <li>Sowing in primary nursery bed at 2cm depth &amp; 10cm apart with mulching &amp; regular irrigation.</li> <li>Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.</li> </ul>
Kiwi	Flowering		Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
Apple	Flowering		<ul> <li>For woody aphid-Wipe the stem with cloth soaked in mineral oil.</li> <li>In bearing trees give a spray of Bordeaux mixture (copper sulphate (2Kg)+quick lime (2kg) in 200litres of water) against canker and other diseases.</li> </ul>
Citrus	Flowering	Bark eating caterpillar	<ul> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste during clear/dry days.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop</li> </ul>

r	1	гГ		
			•	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.
Temperate fruits	After harvesting		*	Training & pruning of the temperate crops (apple/pears/peach) is recommended
			*	In case of flowering, stop spraying insecticides/pesticides
Agroforestry	T			
Toko palm	Nursery		*	Filling of nursery polybags for raising of takopalm
TI Deeg				seedlings
Honey Bees			*	Dow must be accounted with strowy/dry leaves to provide
Honey bees			**	Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS	S			warnen
Livestock	Stage	Disease		Precautionary Practices to be followed
	0	I	*	General
Damage	d grain (not fung	us contaminated)	to be div	verted for Poultry/livestock feeding
				the clock and water troughs/feeders should be regularly
cleaned,				
Pigs	All stages	FMD (high fever	*	Food waste or garbage fed to swine must be cooked and
		and appearance of mucous		sterilized properly. Cooking the different raw materials
		membrane of the		together is advocated to improve digestibility and to
		mouth and foot.)		break- down toxins from some feeds.
		Swine Fever	*	Avoid dampness and cover weak and sick animals with sack
		N 11 11 2 2 3 3 2 3		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.
Pigs	All stages	FMD (high fever	*	Avoid dampness and cover weak and sick animals with
-	-	and appearance		sack cloth.
		of mucous	*	The bedding is always dry and that there is plenty.
		membrane of the	*	If possible wooden sleeping box should be provided.
		mouth and foot.) Swine Fever	*	Animals should be given lukewarm feed and water.
		Swille Fever	*	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
			**	Provide feed supplements
Mithun		FMD		Polyvalent FMD vaccine with serotype O, A and Asia at 6
1/11/1//		1 1/12	·	months of age and repeat after that 6 months interval by sub-
				cutaneous route.
			*	Pregnant animals above 7 months of pregnancy should be
				avoided.
Contact Scien	tists (ICAR) or S			K staff for measures against adverse conditions or call
		at 03	3795-22	26237/226247





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

### **District: Papum Pare**

<u> No: AMFU-Basar/2018/34</u>

Dated: Fri, 27<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall: 43.9 mm; T. Max: 34.0°C; T. Min:	Partly/Mostly cloudy with possibility of moderate rain. Daily
18.0°C ; RH: 64-88% (up to 17 <sup>th</sup> April)	maximum and minimum temperature for the following period is
	predicted to be 30-31°C and 20-21°C respectively. Expected
	morning and evening relative humidity will be 80-95% and 47-71%
	respectively. Expected wind direction mainly NW with speed range
	of 4 kmph.
Warning:	•

Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
Maiss	Veeet		FIELD CROPS
Maize	Vegetative	Soybean looper	<ul> <li>Spraying of Quinalphos 25 EC 2ml/litre of water is advised,</li> <li>Monitor the crop against attack of insect pests,</li> <li>Make proper drainage in the crop field,</li> </ul>
Rice	Nursery/trans plantation	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Jhum field	Sowing		<ul> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> </ul>
			VEGETABLES
Pre-summer vegetables	Sowing	Nursery insects	<ul> <li>Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects</li> </ul>
Cucurbits	Nursery/Sowing		<ul> <li>Prepare nursery in shaded area</li> <li>Procure quality seed from certified agency.</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.</li> </ul>
French Bean	Sowing		<ul> <li>In present weather conditions, sowing of quality seeds may be done in shady areas,</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/kilogram seed before sowing.</li> </ul>
Okra	Sowing		<ul> <li>Rhogram seed before sowing.</li> <li>Procure quality seed from certified agency.</li> <li>Avoid sowing</li> </ul>
Potato	Maturity/ Harvesting stage	Late blight/ Red ant	<ul> <li>Avoid harvesting</li> <li>Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves</li> <li>Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall</li> </ul>
Ginger/ Turmeric	Maturity		<ul> <li>Harvest the mature crop during clear/dry days,</li> <li>Cure should be taken while harvest so that the rhizome is not damaged,</li> </ul>
		I	HORTICULTURAL CROPS
Citrus	Flowering	Bark eating caterpillar/ <b>Blackfly/ Mites</b>	<ul> <li>About 50% eggs laid by the citrus blackfly hatch during 2<sup>nd</sup> half of April month. The nymphs and adults both suck cell sap from young leaves and twigs. Spray Monocrotophos 10 ml or Quinalphos 15 ml per liter os water with second spray after 15 days on clear/dry days or using stickers.</li> <li>Against mites, spray Dicofol 1.8EC @ 15ml/liter of water during clear/dry weather.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste during clear/dry days.</li> </ul>

Large Cardamom Banana	Vegetative Multiple stages	Sigatoka Leaf 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, Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of water using stickers in case of rainfall
		,		oney Bees
Honey bees			*	Box must be covered with straw/dry leaves to provide warmth
			Ll	VESTOCKS
Livestock	Stage	Disease		Precautionary Practices to be followed
General		us contaminated) (	to be di	verted for Poultry/livestock feeding
Damage	d grain (not fung		round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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.
<ul> <li>Damaged</li> <li>Clean dia cleaned,</li> </ul>	d grain (not fung rinking water sl	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	round * * *	the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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
<ul> <li>Damage</li> <li>Clean di cleaned,</li> <li>Pigs</li> </ul>	d grain (not fung rinking water sl	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	round * * * * * * * * * * * * * * * * * * *	the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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. 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. Day old chick-Maintain warmth by lighting, Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
<ul> <li>Damage</li> <li>Clean di cleaned,</li> <li>Pigs</li> </ul>	d grain (not fung rinking water sl All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	round * * * * * * * * * * * * * * * * * * *	the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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. 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. Day old chick-Maintain warmth by lighting, Inclusion of turmeric powder @ 10g/kg feed for

# कृषि मौसम सलाहकार सेवा पत्रिका Agro-met Advisory Bulletin (Period: 29<sup>th</sup> April to 1st May, 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/2018/34

Dated: Fri, 27th April, 2018



Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall = $7.6 \text{ mm}$ (up to $17^{\text{th}}$ April)	Partly/mostly cloudy with possibility of light/moderate rain.
	Daily maximum and minimum temperature for the following period
	is predicted to be 14-24°C and 4.0-5.0°C respectively. Expected
	morning and evening relative humidity will be 80-87% and 52-79%
	respectively. Wind direction is mainly variable with probable speed
	range of 2-5 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

Сгор	Stage	<b>Pest/Disease</b>	Precautionary Practices to be followed
FIELD CROP	S		
Rice	Nursery/trans plantation	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It</li> </ul>
Maize	Sowing		<ul> <li>will reduce the carryover of the infestation to the main field.</li> <li>Sowing of Maize advocated</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing</li> <li>Follow time isolation of atleast 15 days for two or more</li> </ul>
Jhum field	Sowing		<ul> <li>different varieties of maize in Jhum field</li> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing</li> </ul>
VEGETABLE	<b>C</b>		
French bean	Sowing		In present weather conditions, sowing of quality treated
Potato Cabbage/	Vegetative stage/ Harvesting stage Harvesting		<ul> <li>seeds may be done.</li> <li>Harvesting can be done in clear/dry weather</li> <li>Store harvested potatoes in cool/dry places.</li> <li>Harvest mature crop.</li> </ul>
Cauliflower	That vesting		<ul> <li>That vest mature crop.</li> <li>Constantly monitor against attack of insects pests/mole.</li> </ul>
	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		<ul> <li>For woody aphid-Wipe the stem with cloth soaked in mineral oil.</li> <li>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.</li> </ul>
Temperate fruits	After harvesting		<ul> <li>Training &amp; pruning of the temperate crops (apple/pears/peach) is recommended</li> <li>In case of flowering, stop spraying insecticides/pesticides</li> </ul>
Banana	Bunching	Cold	<ul> <li>In cuse of nowering, stop spruying insecticities pesticities</li> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> <li>Mulching with straw/crop residue at root zone to avoid frost injury in banana.</li> </ul>
LIVESTOCKS			
<ul> <li>Clean dr</li> </ul>	d grain (not fungus inking water should	d be ensured round	Precautionary Practices to be followed be diverted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly cleaned,
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to

			<ul> <li>Animals should be given lukewarm feed and water.</li> </ul>
			<ul> <li>Right time to deworm with anti helmetic drugs (particularly</li> </ul>
			Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.
			<ul> <li>Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.</li> </ul>
Yak	All stages		Feeding of concentrate feed along with mineral mixture and salt.
			Hay feeding is recommended.
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
			<ul> <li>Provide feed supplements</li> </ul>
Contact Scien	ntists (ICAR) or S		ff or KVK staff for measures against adverse conditions or call 03795-226237/226247

## **Agro-met Advisory Bulletin**

(Period: 29<sup>th</sup> April to 1<sup>st</sup> May, 2018)



ग्रामीण कृषि मौसम सेवा

**GRAMIN KRISHI MAUSAM SEWA** 



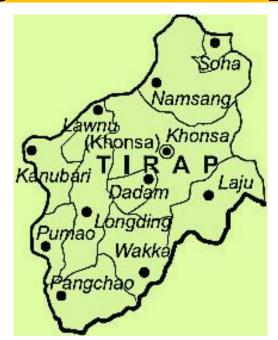


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

### **District:** Tirap

<u>No: AMFU-Basar/2018/34</u>

Dated: Fri, 27th April, 2018



Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall = $11.4 \text{ mm}$ (up to $17^{\text{th}}$ April)	Partly/mostly cloudy with possibility of moderate rain. Daily
	maximum and minimum temperature for the following period is
	predicted to be 30-31°C and 20-21°C respectively. Expected
	morning and evening relative humidity will be 78-100% and 28- 51% respectively. Wind direction is mainly ENE & E with speed
	range of 2-4 kmph.
Warning:	Nil
waining.	• 1111

### Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROP: Maize	S Vegetative	Soybean looper	<ul> <li>Spraying of Quinalphos 25 EC 2ml/litre of water is advised,</li> <li>Monitor the crop against attack of insect pests,</li> <li>Make proper drainage in the crop field,</li> </ul>
Rice	Nursery/trans plantation	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Jhum field	Sowing		<ul> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> </ul>
Pea	Seed development/ Maturity	Powdery mildew/ leaf eating insects	<ul> <li>Harvest mature crops</li> <li>Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
Toria/ Mustard	Maturity	Aphids	<ul> <li>Harvest during clear/dry days</li> <li>If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.</li> </ul>
VEGETABLE	S		
Pre-summer vegetables	Sowing	Nursery insects	<ul> <li>Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects</li> </ul>
Cucurbits	Nursery/Sowing		<ul> <li>Prepare nursery in shaded area</li> <li>Procure quality seed from certified agency.</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.</li> </ul>
French Bean	Sowing		<ul> <li>In present weather conditions, sowing of quality seeds may be done,</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/kilogram seed before sowing.</li> </ul>
Okra	Sowing		<ul> <li>Sowing advocated during clear/dry days</li> <li>Procure quality seed from certified agency.</li> </ul>
Potato	Vegetative stage/ Harvesting stage	Late blight/ Red ant	<ul> <li>High time to harvest mature crops</li> <li>If already harvested, Store in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.</li> <li>Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves</li> <li>Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised</li> </ul>
Ginger/ Turmeric	Maturity		<ul> <li>Harvest the mature crop,</li> <li>Cure should be taken while harvest so that the</li> </ul>

			rhizome is not damaged,
HORTICULTU	RAL CROPS		
Citrus	Flowering All stages	Bark eating caterpillar Sigatoka Leaf spot	<ul> <li>Cleaning &amp; smearing of trunk base with Bordeaux past during clear/dry days.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as i may affect pollination process.</li> <li>Spray (Planofix) NAA based growth regulator @2m/5li water during flowering stage in orange plant to reduct fruit/flower drop</li> <li>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> <li>Dead wood on the citrus trees should be kept pruned about 2cm, below the dead portion.</li> <li>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,</li> </ul>
			<ul> <li>Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of water</li> </ul>
Honey Bees			water
			Box must be covered with straw/dry leaves to provide
			warmth
LIVESTOCKS			, i i
Livestock General & Damaged & Clean dr			, i i
Livestock General & Damaged	grain (not fung	gus contaminated) to	<ul> <li>warmth</li> <li>Precautionary Practices to be followed</li> <li>be diverted for Poultry/livestock feeding round the clock and water troughs/feeders should be regular.</li> <li>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</li> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>The bedding is always dry and that there is plenty.</li> <li>Animals should be given lukewarm feed and water.</li> <li>Right time to deworm with anti helmetic drugs (particularly</li> </ul>
Livestock General & Damaged & Clean dr cleaned,	grain (not fung inking water s	<b>gus contaminated) to</b> <b>hould be ensured</b> FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul> <li>Precautionary Practices to be followed</li> <li>be diverted for Poultry/livestock feeding round the clock and water troughs/feeders should be regular</li> <li>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</li> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>The bedding is always dry and that there is plenty.</li> <li>Animals should be given lukewarm feed and water.</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li>To avoid water turbidity, use grass turfing or horticultura</li> </ul>
Livestock General Damaged Clean dr cleaned, Pigs	grain (not fung inking water s	<b>gus contaminated) to</b> <b>hould be ensured</b> FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul> <li>warmth</li> <li>Precautionary Practices to be followed</li> <li>be diverted for Poultry/livestock feeding round the clock and water troughs/feeders should be regular</li> <li>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</li> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>The bedding is always dry and that there is plenty.</li> <li>Animals should be given lukewarm feed and water.</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li>To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.</li> <li>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</li> </ul>
Livestock General Clean dr cleaned, Pigs	grain (not fung inking water s All stages	<b>gus contaminated) to</b> <b>hould be ensured</b> FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul> <li>warmth</li> <li>Precautionary Practices to be followed</li> <li>be diverted for Poultry/livestock feeding round the clock and water troughs/feeders should be regulard</li> <li>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</li> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>The bedding is always dry and that there is plenty.</li> <li>Animals should be given lukewarm feed and water.</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li>To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.</li> <li>Provide shelter to the backyard/scavenging poultry. Feed</li> </ul>

# कृषि मौसम सलाहकार सेवा पत्रिका

# **Agro-met Advisory Bulletin**

(Period: 29<sup>th</sup> April to 1<sup>st</sup> May, 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/2018/34

Dated: Fri, 27<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall = $33.4 \text{ mm}$ (up to $17^{\text{th}}$ April)	Partly/Mostly cloudy with possibility of light/moderate rainfall.
	Daily maximum and minimum temperature for the following period
	is predicted to be 25°C and 16°C respectively. Expected morning
	and evening relative humidity will be 65-87% and 34-65%
	respectively. Wind direction is mainly E & SE with speed range of
	3-7 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

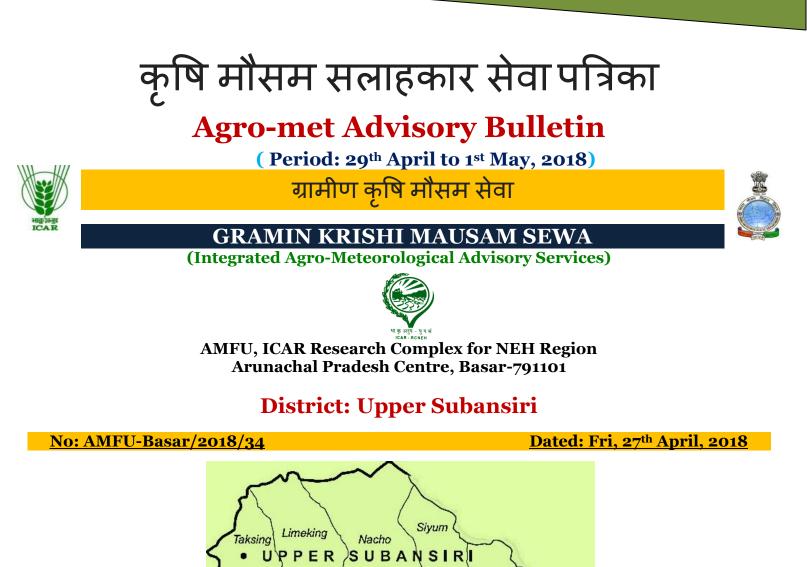
- Spraying operation should be done only on dry/clear weather
- Go for low cost poly-houses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic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

Сгор	Stage	<b>Pest/Disease</b>	Precautionary Practices to be followed
FIELD CROP		I CSU/DISCASE	r recautionary r ractices to be followed
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul> <li>Provide adequate drainage and avoid water stagnation near the base of the plants.</li> <li>Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the information in the last statement.</li> </ul>
Rice	Nursery/trans plantation	Stem borer	<ul> <li>infestation is high.</li> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
<i>Jhum</i> field	Sowing		<ul> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> </ul>
Toria/ Mustard	Vegetative/ Flowering		<ul> <li>Provide proper drainage facilities for the toria grown in the WRC field to protect them against heavy rainfall.</li> </ul>
VEGETABLE		Г Г	
Cucurbits	Nursery/Sowing		<ul> <li>Prepare nursery in shaded area</li> <li>Procure quality seed from certified agency.</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.</li> </ul>
Potato	Maturity/ Harvesting	Late blight/ Red ant	<ul> <li>Harvesting of mature crops during clear/dry days</li> <li>Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves</li> <li>Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall</li> </ul>
Ginger/ Turmeric	Maturity		<ul> <li>Harvest the mature crop,</li> <li>Cure should be taken while harvest so that the rhizome is not damaged,</li> </ul>
HORTICULT	URAL CROPS		
Large cardamom	Sowing		<ul> <li>Sowing in primary nursery bed at 2cm depth &amp; 10cm apart with mulching &amp; regular irrigation.</li> </ul>
Citrus	Flowering	Bark eating caterpillar	<ul> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste during clear/dry days.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop</li> <li>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> </ul>
			• Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.

pple	Flowering			r woody aphid-Wipe the stem with cloth soaked in mineral
			oil	
				bearing trees give a spray of Bordeaux mixture (copper
				phate (2Kg)+quick lime (2kg) in 200litres of water) against
				iker and other diseases.
anana	Bunching	Cold		ver newly emerged bunches with locally available sack to
				beect from cold/frost
				ulching with straw/crop residue at root zone to avoid st injury in banana.
IVESTOCK	S			st mjury m banana.
Livestock	Stage	Disease		<ul> <li>Precautionary Practices to be followed</li> </ul>
LIVESTOCK	Buge	Discuse	🕹 Ge	neral
Damage	ad grain (not fun	aus contaminated) to		ed for Poultry/livestock feeding
0		-		e clock and water troughs/feeders should be regular
cleaned	-	should be clisured	ound th	clock and water troughs/recutify should be regular
Pigs	All stages	FMD (high fever	Fo	od waste or garbage fed to swine must be cooked and
C	C	and appearance		rilized properly. Cooking the different raw materials
		of mucous		gether is advocated to improve digestibility and to
		membrane of the		eak- down toxins from some feeds.
		mouth and foot.)		roid dampness and cover weak and sick animals with sack
		Swine Fever	clo	-
				e bedding is always dry and that there is plenty.
				imals should be given lukewarm feed and water.
				-
				ght time to deworm with anti helmetic drugs (particularly
<b>D</b> 1	A 11			peworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh
Poultry	All stages			ovide shelter to the backyard/scavenging poultry. Fee
			_	ains in the morning/evening to supplement scavenging.
				clusion of turmeric powder @ 10g/kg feed fo
Cattle	All stages	FMD		evention of cocciodiosis. imals should be given lukewarm feed and water.
Cattle	All stages			ght time to deworm with anti helmetic drugs
				articularly Tapeworms) viz. Fento Plus @ 1 tablet per 3
				body weight.
				ovide proper bedding materials especially to new-born an
				ewarm food & water
				ovide feed supplements
Fishery				avoid water turbidity, use grass turfing or horticultura
			cre	op at embankment/dyke of the earthen fish pond.
Mithun		FMD		lyvalent FMD vaccine with serotype O, A and Asia at
				on the of age and repeat after that 6 months interval by sub
				aneous route.
				$\cdot$
				egnant animals above 7 months of pregnancy should b bided.

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



Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Daporijo: 2.4 mm (up to 17 <sup>th</sup> April)	Partly/Mostly cloudy with possibility of moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 29°C and 19-20°C respectively. Expected morning
	and evening relative humidity will be 79-90% and 46-76%
	respectively. Expected wind direction is mainly S & SSE with speed
	range of 3-4 kmph.
Warning	Thunderstorm in few isolated places

Giba

Chetam (Peer Yapu)

Payeng

• Taliha

Baririjo

Daponi

#### 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
	<u> </u>		FIELD	O CROPS
Rice	Nursery/trans plantation	Stem borer	•	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> </ul>
			•	Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Maize	Vegetative	Soybean looper	* *	advised, Monitor the crop against attack of insect pests,
Pea	Seed development	Powdery mildew/ leaf eating insects	*	near the base of the plants.
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	* *	<b>Provide adequate drainage</b> If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
			VEGE	TABLES
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.
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
at.			ICUL	TURAL CROPS
Citrus	Flowering	Bark eating caterpillar/ Blackfly/ Mites	•	About 50% eggs laid by the citrus blackfly hatch during 2 <sup>nd</sup> half of April month. The nymphs and adults both suck cell sap from young leaves and twigs. Spray Monocrotophos 10 ml or Quinalphos 15 ml per liter os water with second spray after 15 days on clear/dry days or using stickers. Against mites, spray Dicofol 1.8EC @ 15ml/liter of water
			•	during clear/dry weather. Cleaning & smearing of trunk base with Bordeaux paste

Apple	Flowering		• • • • • • • • • • • • • • • • • • • •	<ul> <li>oil.</li> <li>In bearing trees give a spray of Bordeaux mixture (copper sulphate (2Kg)+quick lime (2kg) in 200litres of water) against canker and other diseases.</li> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> </ul>
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
Livestock	Stage	Disease		STOCKS Precautionary Practices to be followed
	-		the cloc	ed for Poultry/livestock feeding <u>ck and water troughs/feeders should be regularly cleaned,</u> Food waste or garbage fed to swine must be cooked and
50	i in stuges	I tilb (ingli ievei	•	I obta music of gui suge feu to swifte musi be cooked und
		and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * *	<ul> <li>sterilized properly. Cooking the different raw materials</li> <li>together is advocated to improve digestibility and to</li> <li>break- down toxins from some feeds.</li> <li>Avoid dampness and cover weak and sick animals with sack</li> <li>cloth.</li> <li>The bedding is always dry and that there is plenty.</li> <li>Animals should be given lukewarm feed and water.</li> <li>Right time to deworm with anti helmetic drugs (particularly</li> <li>Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> </ul>
Fishery		of mucous membrane of the mouth and foot.)	* *	<ul> <li>together is advocated to improve digestibility and to</li> <li>break- down toxins from some feeds.</li> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>The bedding is always dry and that there is plenty.</li> <li>Animals should be given lukewarm feed and water.</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li>To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.</li> </ul>
Fishery Poultry	All stages	of mucous membrane of the mouth and foot.) Swine Fever	* * * *	<ul> <li>together is advocated to improve digestibility and to break- down toxins from some feeds.</li> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>The bedding is always dry and that there is plenty.</li> <li>Animals should be given lukewarm feed and water.</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li>To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.</li> <li>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</li> <li>Inclusion of turmeric powder @ 10g/kg feed fo prevention of cocciodiosis.</li> </ul>
	All stages All stages	of mucous membrane of the mouth and foot.)	* * * * *	<ul> <li>together is advocated to improve digestibility and to break- down toxins from some feeds.</li> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>The bedding is always dry and that there is plenty.</li> <li>Animals should be given lukewarm feed and water.</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight</li> <li>To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.</li> <li>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</li> <li>Inclusion of turmeric powder @ 10g/kg feed for</li> </ul>

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# कृषि मौसम सलाहकार सेवा पत्रिका

# **Agro-met Advisory Bulletin**

(Period: 29th April to 1st May, 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/2018/34</u>

Dated: Fri, 27<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 2 <sup>nd</sup> May 2018
Rainfall = Bomdila: 0.0 ; Bhalukpong: 28.4 mm (up to 17 <sup>th</sup> April)	<b>Partly/mostly cloudy with possibility light/moderate rain.</b> Daily maximum and minimum temperature for the following period is
	predicted to be 24°C and 13-14°C respectively. Expected morning
	and evening relative humidity will be 79-95% and 44-82% respectively. Wind direction is mainly W & NW with speed range of
	3-6 kmph.
Warning:	Moderate to dense fog likely to occur at isolated places

## Weather Based Agro-meteorological Advisories Bulletin

#### **General Recommendations**

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

Сгор	Stage	Pest/Disease		Precautionary Practices to be followed
FIELD CROP	S			
Rice	Nursery/trans plantation	Stem borer	•	<b>Rice:</b> Weed free & clean nursery periphery to prevent disease/pest harboring.
	plaintation		•	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.
Jhum Rice	Land		*	Arrangement of quality seeds,
	Preparation		*	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	Powdery	*	Provide adequate drainage and avoid water stagnation
	development	mildew/ leaf		near the base of the plants.
	-	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.
Toria/ Mustard	Maturity	Aphids	*	Provide adequate drainage
Torra/ Wrustaru	Waturity	Apillus	*	If the infestation is high, Spray Dimethoate 30EC @2ml/litre
			•	
				against aphids in Rapeseed/Mustard using sticker or during
				clear/dry days.
<b>VEGETABLE</b>				<b>N</b> (111
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/	Late blight/		Avoid harvesting during current weather
	Harvesting stage	Red ant	*	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
	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	*	canker and other diseases. Cover newly emerged bunches with locally available sack to
Banana	, C	Cold	*	canker and other diseases.
Banana LIVESTOCK	S		*	canker and other diseases. Cover newly emerged bunches with locally available sack to protect from cold/frost
	, C	Cold Disease		canker and other diseases. Cover newly emerged bunches with locally available sack to protect from cold/frost
LIVESTOCK Livestock	S Stage	Disease	*	canker and other diseases. Cover newly emerged bunches with locally available sack to protect from cold/frost
LIVESTOCK Livestock & Damage	S S Stage ed grain (not fungu	Disease 1s contaminated) t	o be di	canker and other diseases. Cover newly emerged bunches with locally available sack to protect from cold/frost Precautionary Practices to be followed General verted for Poultry/livestock feeding
LIVESTOCK Livestock & Damage & Clean o	S Stage ed grain (not fungu Irinking water sh	Disease 1s contaminated) t	o be di	canker and other diseases. Cover newly emerged bunches with locally available sack to protect from cold/frost Precautionary Practices to be followed General verted for Poultry/livestock feeding
LIVESTOCK Livestock	S Stage ed grain (not fungu trinking water sh	Disease 1s contaminated) t 1ould be ensured	↔ o be div round	canker and other diseases. Cover newly emerged bunches with locally available sack to protect from cold/frost
LIVESTOCK Livestock	S Stage ed grain (not fungu Irinking water sh	Disease us contaminated) t bould be ensured FMD (high fever	↔ o be div round	canker and other diseases. Cover newly emerged bunches with locally available sack to protect from cold/frost Precautionary Practices to be followed General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and
LIVESTOCK Livestock	S Stage ed grain (not fungu trinking water sh	Disease as contaminated) the consured FMD (high fever and appearance	↔ o be div round	canker and other diseases. Cover newly emerged bunches with locally available sack to protect from cold/frost Precautionary Practices to be followed General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials
LIVESTOCK Livestock	S Stage ed grain (not fungu trinking water sh	Disease us contaminated) t bould be ensured FMD (high fever	↔ o be div round	canker and other diseases. Cover newly emerged bunches with locally available sack to protect from cold/frost Precautionary Practices to be followed General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly Food waste or garbage fed to swine must be cooked and

		mouth and foot.)		break- down toxins from some feeds.
		Swine Fever	*	Avoid dampness and cover weak and sick animals with sach
				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 weig
Fishery			*	To avoid water turbidity, use grass turfing or horticultu
-				crop at embankment/dyke of the earthen fish pond.
Yak	All stages		*	Feeding of concentrate feed along with mineral mixtu
				and salt.
-			*	Hay feeding is recommended.
Poultry	All stages		*	
			**	grains in the morning/evening to supplement scavenging Day old chick-Maintain warmth by lighting,
			*	
			•	using gunny bags/plastic sheets around the poultry shed dur
				night,
			*	Provide heat by lighting 100W bulb @ 1 bulb per 20 new
				born chicks.
Cattle	All stages	FMD	*	
			*	Right time to deworm with anti helmetic drugs
				(particularly Tapeworms) viz. Fento Plus @ 1 tablet per kg body weight.
			*	Provide proper bedding materials especially to new-born a
				lukewarm food & water
			*	Heavy mortality in cloven footed animals has been reported
			*	Supportive treatment of infected animals under supervision
			•	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 St
			•	Veterinary Dept.)
			**	Provide feed supplements
Mithun		FMD	*	Polyvalent FMD vaccine with serotype O, A and Asia a
				months of age and repeat after that 6 months interval by su
			•	cutaneous route.
			*	Pregnant animals above 7 months of pregnancy should
				avoided. K staff for measures against adverse conditions or

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> Agrometeorological Field Unit ICAR, BASAR

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

(Period: 29<sup>th</sup> April to 1<sup>st</sup> May, 2018)

ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA** 



(Integrated Agro-Meteorological Advisory Services)

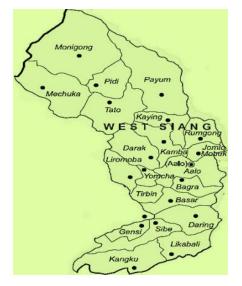


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

# **District: West Siang**

No: AMFU-Basar/2018/34

Dated: Fri, 27<sup>th</sup> 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 2 <sup>nd</sup> May 2018
<b>Basar:</b> Rainfall =0.0 mm. T. Max: 27.8°C,	Partly/Mostly cloudy with possibility of Moderate rainfall. Daily
T. Min: 12.5°C, RH: 51-96%, Wind Speed:	maximum and minimum temperature for the following period is
4-6 kmph, Wind Direction: NNW & NNE	predicted to be 29°C and 19-20°C respectively. Expected morning
	and evening relative humidity will be 66-81% and 36-66%
	respectively. Wind direction is mainly S & SSW with speed range of
	3-8 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
- Go for low cost polyhouses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides
- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS	Nursery/trans plantation	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) &amp; Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> </ul>
Maize	Vegetative	Soybean looper	<ul> <li>Spraying of Quinalphos 25 EC 2ml/litre of water is advised,</li> <li>Monitor the crop against attack of insect pests,</li> <li>Make proper drainage in the crop field,</li> </ul>
Jhum field	Sowing		<ul> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration dwarf and high violding.</li> </ul>
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul> <li>duration, dwarf and high yielding.</li> <li>Provide adequate drainage and avoid water stagnation near the base of the plants.</li> <li>Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
Toria/ Mustard	Maturity	Aphids	<ul> <li>Provide adequate drainage</li> <li>If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.</li> </ul>
VEGETABLE	S		
Pre-summer vegetables	Sowing	Nursery insects	<ul> <li>Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects</li> </ul>
Cucurbits	Nursery/Sowing		<ul> <li>Prepare nursery in shaded area</li> <li>Procure quality seed from certified agency.</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.</li> </ul>
French Bean	Sowing		<ul> <li>Sowing can be done in raised bunds</li> <li>Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.</li> </ul>
Okra	Sowing		<ul> <li>Procure quality seed from certified agency.</li> <li>Sowing during clear dry days in raised bunds</li> <li>Provide proper drainage to already sown crops</li> </ul>
Potato	Maturity/ Harvesting		<ul> <li>Harvesting can be done in clear/dry days</li> <li>Proper sun-drying before storage.</li> </ul>
Cabbage/ Cauliflower	Harvesting		<ul> <li>Harvest mature crop.</li> <li>Constantly monitor against attack of insects pests/mole.</li> </ul>
Ginger/ Turmeric	Maturity		<ul> <li>Constantly montor against attack of insects pests/more.</li> <li>Harvest the mature crop,</li> <li>Cure should be taken while harvest so that the rhizome is not damaged,</li> </ul>
HORTICULT	URAL CROPS		

Citra	<b>F1</b> '	D-1		
Citrus	Flowering	Bark eating caterpillar/ <b>Blackfly/ Mites</b>	•	About 50% eggs laid by the citrus blackfly hatch during 2 <sup>nd</sup> half of April month. The nymphs and adults both suck cell sap from young leaves and twigs. Spray Monocrotophos 10 ml or Quinalphos 15 ml per liter os water with second spray after 15 days on clear/dry days or using stickers. Against mites, spray Dicofol 1.8EC @ 15ml/liter of water during clear/dry weather. 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.
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
rippie	Tiowening			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.
Large cardamom	Sowing		* *	Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation. Applications of well decomposed cattle manure/compost
HONEY BEES				@5kg/plant during clear/dry days.
Honey bees			*	Cover the boxes with locally available dry grass or straw to provide warmt
LIVESTOCKS	E Contra de	· · · · · · · · · · · · · · · · · · ·		
Livestock	Stage	Disease		<ul> <li>Precautionary Practices to be followed</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	*	Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. 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			<b>*</b>	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. Day old chick-Maintain warmth by lighting, Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
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 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 Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247

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