# **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)

ग्रामीण कृषि मौसम सेवा



#### **GRAMIN KRISHI MAUSAM SEWA**



(Integrated Agro-Meteorological Advisory Services)

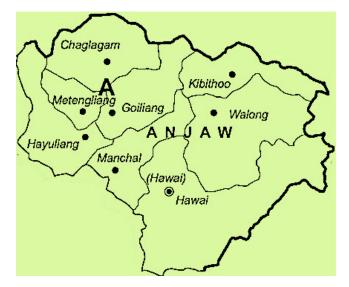


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

# **District:** Anjaw

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 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 21-22°C and 14-15°C respectively. Expected morning and evening relative humidity will be 84-94% and 41-49% respectively. Wind direction is mainly E & SE with average wind speed range of 4-6 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	S		
Ginger/ Turmeric	Maturity		<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/	Harvesting		<ul> <li>Harvest mature crop.</li> </ul>
Cauliflower			Constantly monitor against attack of insects pests/mole.
HORTICULT Citrus	JRAL CROPS 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)			<ul> <li>Prepare half moon terraces in fruit crops grown in steep slopes to prevent nutrient loss during heavy downpour.</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</li> </ul>

				injury in banana.
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
Poultry	All stages			<b>Provide shelter to the backyard/scavenging poultry. Feed</b> <b>grains in the morning/evening to supplement scavenging.</b> Day old chick-Maintain warmth by lighting,
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * *	<ul> <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> </ul>
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	ientists (ICAR) or	FMD	*	Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months o pregnancy should be avoided from vaccination.

# **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 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/2018/33</u>

Dated: Tue, 24<sup>th</sup> April, 2018



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

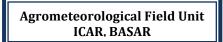
Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 2018
Rainfall = Changlang: 0.0 mm Miao: 19.4 mm (up to 17 <sup>th</sup> April)	<b>Partly/mostly cloudy with possibility of light/moderate rain.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 19-20°C respectively. Expected morning and evening relative humidity will be 81-90% and 18-25% respectively. Wind direction is mainly E & ESE with speed range of 4-6 kmph.
Warning	• Nil

### Weather Based Agro-meteorological Advisories Bulletin

- Spraying operation should be done only on dry/clear weather
- Go for low cost 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>
Jhum field	Sowing		<ul> <li>Make proper drainage in the crop 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</li> </ul>
D			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>
<b>VEGETABLE</b>			
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</li> </ul>
			<ul> <li>From the proper dramage to newry dramsplanted seedings and follow raised bed for sowing</li> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500</li> </ul>
			litres water/ha against nursery insects
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> <li>Avoid sowing during rainy days</li> </ul>
Potato	Maturity/ Harvesting		<ul> <li>Harvesting can be done on clear/dry days</li> <li>Harvesting can be done on clear/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>
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		D 1	
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>

				Cleaning & maaring of trunk base with Pordeaux posts
			•	Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it
			-	may affect pollination process.
			•	Spray (Planofix) NAA based growth regulator @2m/5lit
				water during flowering stage in orange plant to reduce
				fruit/flower drop
			•	For bark eating caterpillar, remove wooden frass and
				inject Dichlorovos (0.1%) @ 5ml with disposable syringe.
			•	Dead wood on the citrus trees should be kept pruned,
				about 2cm, below the dead portion.
Large cardamom	Sowing		*	Sowing in primary nursery bed at 2cm depth & 10cm apart
				with mulching & regular irrigation.
			*	Applications of well decomposed cattle manure/compost
D	D 1'	0.11	· ·	@5kg/plant during clear/dry days.
Banana	Bunching	Cold	***	Cover newly emerged bunches with locally available sack to
			*	protect from cold/frost Mulabing with strong residue at next gone to avoid
			**	Mulching with straw/crop residue at root zone to avoid frost injury in banana.
HONEY BEES				nost mjur y m banana.
	<b>9</b>		*	Dow must be accounted with strowy/dry lagues to provide
Honey bees			**	Box must be covered with straw/dry leaves to provide
				warmth
LUESTOCK	•		*	Provide sugar syrup
LIVESTOCKS	I	-	1	
Livestock	Stage	Disease		Precautionary Practices to be followed
Livestock	Stage	Disease	*	<ul> <li>Precautionary Practices to be followed</li> <li>General</li> </ul>
<ul> <li>Damage</li> </ul>	d grain (not fung	gus contaminated)	to be di	General verted for Poultry/livestock feeding
<ul><li>✤ Damage</li><li>❖ Clean d</li></ul>	d grain (not fung	gus contaminated)	to be di	General
<ul><li>✤ Damage</li><li>♦ Clean d</li><li>cleaned,</li></ul>	d grain (not fung	gus contaminated)	to be di l 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	gus contaminated)	to be di l round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly To avoid water turbidity, use grass turfing or horticultural
<ul> <li>✤ Damage</li> <li>♦ Clean d</li> <li>cleaned,</li> <li>Fishery</li> </ul>	d grain (not fung	gus contaminated)	to be di l round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
<ul><li>✤ Damage</li><li>♦ Clean d</li><li>cleaned,</li></ul>	d grain (not fung	gus contaminated)	to be di l round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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.
<ul> <li>✤ Damage</li> <li>♦ Clean d</li> <li>cleaned,</li> <li>Fishery</li> </ul>	d grain (not fung rinking water s	gus contaminated)	to be di l round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> </ul>	d grain (not fung rinking water s All stages	gus contaminated)	to be di l round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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.
<ul> <li>✤ Damage</li> <li>♦ Clean d</li> <li>cleaned,</li> <li>Fishery</li> </ul>	d grain (not fung rinking water s	gus contaminated)	to be di l round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> </ul>	d grain (not fung rinking water s All stages	gus contaminated)	to be di l round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with sack cloth.
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> </ul>	d grain (not fung rinking water s All stages	gus contaminated)	to be di l round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> </ul>	d grain (not fung rinking water s All stages	gus contaminated)	to be di l round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with sack cloth.
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> </ul>	d grain (not fung rinking water s All stages	gus contaminated)	to be di round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> <li>Pigs</li> </ul>	d grain (not fung rinking water s All stages All stages All stages	gus contaminated)	to be di round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> <li>Pigs</li> <li>Goat</li> </ul>	d grain (not fung rinking water s All stages All stages	us contaminated) hould be ensured	to be di round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Deworming for gastrointestinal parasite
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> <li>Pigs</li> <li>Goat</li> </ul>	d grain (not fung rinking water s All stages All stages All stages	us contaminated) hould be ensured	to be di round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Deworming for gastrointestinal parasite Right time to deworm with anti helmetic drugs
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> <li>Pigs</li> <li>Goat</li> </ul>	d grain (not fung rinking water s All stages All stages All stages	us contaminated) hould be ensured	to be di round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Deworming for gastrointestinal parasite Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> <li>Pigs</li> <li>Goat</li> </ul>	d grain (not fung rinking water s All stages All stages All stages	us contaminated) hould be ensured	to be di round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Deworming for gastrointestinal parasite Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> <li>Pigs</li> <li>Goat</li> <li>Cattle</li> </ul>	d grain (not fung rinking water s All stages All stages All stages All stages	FMD	to be di round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Deworming for gastrointestinal parasite Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water Provide feed supplements
<ul> <li>Damage</li> <li>Clean d cleaned,</li> <li>Fishery</li> <li>Poultry</li> <li>Pigs</li> <li>Goat</li> <li>Cattle</li> </ul>	d grain (not fung rinking water s All stages All stages All stages All stages	FMD	to be di round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly 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. Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Deworming for gastrointestinal parasite Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water





# **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)

ग्रामीण कृषि मौसम सेवा

**GRAMIN KRISHI MAUSAM SEWA** 

(Integrated Agro-Meteorological Advisory Services)

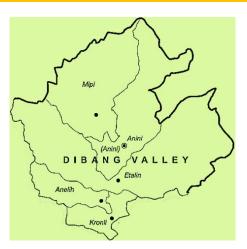


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

# **District: Dibang Valley**

No: AMFU-Basar/2018/33

Dated: Tue, 24<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 29 <sup>th</sup> April 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 19-20°C and 12°C respectively. Expected morning and evening relative humidity will be 83-96% and 39-55% respectively. Wind direction is mainly SE with speed range of 5-7 kmph.
Warning:	• Nil

### Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Pea	Seed development	Powdery mildew/ leaf eating insects	<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>
	URAL CROPS	· · · · · · · · · · · · · · · · · · ·	
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>

		* • to be div	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 Precautionary Practices to be followed General verted for Poultry/livestock feeding
rain (not fung	us contaminated) t	* • to be div	provide warmth Provide sugar syrup in a bowl in front of the box in case of heavy rainfall Precautionary Practices to be followed General verted for Poultry/livestock feeding
rain (not fung	us contaminated) t	to be div	Precautionary Practices to be followed General verted for Poultry/livestock feeding
rain (not fung	us contaminated) t	to be div	General verted for Poultry/livestock feeding
		to be div	verted for Poultry/livestock feeding
	1		the clock and water troughs/feeders should be regular
		•••	To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.
All stages			Provide shelter to the backyard/scavenging poultry. Fee grains in the morning/evening to supplement scavenging. Inclusion of turmeric powder @ 10g/kg feed fo prevention of cocciodiosis.
All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * *	Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh
All stages	FMD	* * *	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 Stat Veterinary Dept.) Provide feed supplements
	FMD	*	Polyvalent FMD vaccine with serotype O, A and Asia at months of age and repeat after that 6 months interval by sub cutaneous route. Pregnant animals above 7 months of pregnancy should b avoided.
	All stages All stages	All stages FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever All stages FMD FMD	All stages       FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever         All stages       FMD         All stages       FMD         All stages       FMD         All stages       FMD         Swine Fever       *         All stages       FMD         Swine Fever       *         All stages       FMD         FMD       *         FMD       *

# **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

## **District: East Kameng**

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 2018
Rainfall = 5.3 mm (up to $17^{th}$ April)	Mostly cloudy with possibility moderate rain. Daily maximum
	and minimum temperature for the following period is predicted to be
	24-25°C and 17°C respectively. Expected morning and evening
	relative humidity will be 75-83% and 37-44% respectively.
	Expected wind direction is mainly SE 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	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> <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
I.		1	*	General
				verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular
Poultry	All stages		*	Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
Pigs	All stages			Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight
Goat	All stages		*	Deworming for gastrointestinal parasite
Fishery			*	To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.
Cattle	All stages	FMD	*	Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water Provide feed supplements

# **Agro-met Advisory Bulletin**

( Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)



ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA** 

(Integrated Agro-Meteorological Advisory Services)



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

## **District: East Siang**

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 2018
Rainfall: 104.8 mm; T. Max: 32.0°C; T. Min:	Mostly cloudy with possibility of light/moderate rainfall. Daily
18.0°C ; RH: 54-100% (up to 17 <sup>th</sup> April)	maximum and minimum temperature for the following period is
	predicted to be 26-28°C and 20-21°C respectively. Expected
	morning and evening relative humidity will be 72-83% and 32-43%
	respectively. Expected wind direction is WSW & W variable with
	speed range of 4-6 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>

Large cardamom	Sowing			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. Sowing in primary nursery bed at 2cm depth & 10cm apart
			*	with mulching & regular irrigation. <b>Applications of well decomposed cattle manure/compost</b> @5kg/plant during clear/dry days.
Honey Bees				
Honey bees			*	Cover the boxes with locally available dry grass or straw to provide warmth
LIVESTOCKS	5			
Livestock	Stage	Disease		<ul> <li>Precautionary Practices to be followed</li> </ul>
	•	·	*	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,

Fishery <ul> <li>To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.</li> </ul> Poultry       All stages <ul> <li>Provide shelter to the backyard/scavenging poultry. Fee 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 fo prevention of coccidiosis.</li> </ul> Pigs         All stages <ul> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh Goat</li> <li>All stages</li> <li>Deworming for gastrointestinal parasite</li> </ul> Cattle         All stages         FMD <ul> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight.</li> <li>Provide proper bedding materials especially to new-born an lukewarm food &amp; water</li> <li>Provide proper bedding materials especially to new-born an lukewarm food &amp; water</li> <li>Provide feed supplements</li> </ul> Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247	cleaned	,			
Poultry       All stages       Provide shelter to the backyard/scavenging poultry. Fee grains in the morning/evening to supplement scavenging.         Poultry       All stages       Day old chick-Maintain warmth by lighting,         Pigs       All stages       Avoid dampness and cover weak and sick animals with sack cloth.         Pigs       All stages       Avoid dampness and cover weak and sick animals with sack cloth.         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 an lukewarm food & water         Provide feed supplements	Fishery			*	
grains in the morning/evening to supplement scavenging.         Day old chick-Maintain warmth by lighting,         Pigs       All stages         Pigs       All stages         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 weigh         Goat       All stages         Cattle       All stages         FMD       Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight.         Provide proper bedding materials especially to new-born an lukewarm food & water       Provide feed supplements         Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call					crop at embankment/dyke of the earthen fish pond.
<ul> <li>Day old chick-Maintain warmth by lighting,</li> <li>Inclusion of turmeric powder @ 10g/kg feed foprevention of cocciodiosis.</li> </ul> Pigs       All stages <ul> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh</li> <li>Goat</li> <li>All stages</li> <li>Deworming for gastrointestinal parasite</li> </ul> Cattle         All stages         FMD <ul> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight.</li> <li>Provide proper bedding materials especially to new-born an lukewarm food &amp; water</li> <li>Provide feed supplements</li> </ul>	Poultry	All stages		*	Provide shelter to the backyard/scavenging poultry. Feed
<ul> <li>Day old chick-Maintain warmth by lighting,</li> <li>Inclusion of turmeric powder @ 10g/kg feed foprevention of cocciodiosis.</li> </ul> Pigs       All stages <ul> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh</li> <li>Goat</li> <li>All stages</li> <li>Deworming for gastrointestinal parasite</li> </ul> Cattle         All stages         FMD <ul> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight.</li> <li>Provide proper bedding materials especially to new-born an lukewarm food &amp; water</li> <li>Provide feed supplements</li> </ul>					grains in the morning/evening to supplement scavenging.
Pigs       All stages <ul> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh</li> <li>Goat</li> <li>All stages</li> <li>Deworming for gastrointestinal parasite</li> </ul> <li>Cattle</li> <li>All stages</li> <li>FMD</li> <li>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight.</li> <li>Provide proper bedding materials especially to new-born an lukewarm food &amp; water</li> <li>Provide feed supplements</li> <li>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call</li>				*	
Pigs       All stages       Avoid dampness and cover weak and sick animals with sack cloth.         Pigs       All stages       Avoid dampness and cover weak and sick animals with sack cloth.         Goat       All stages       Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh         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 an lukewarm food & water         Provide feed supplements         Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call				*	
sack cloth.         Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh         Goat       All stages         Cattle       All stages         FMD       Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight.         Cattle       All stages         FMD       Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight.         Provide proper bedding materials especially to new-born an lukewarm food & water       Provide feed supplements         Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call					
Goat       All stages       Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh         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.         Cattle       All stages         FMD       Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight.         Provide proper bedding materials especially to new-born an lukewarm food & water       Provide feed supplements         Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call	Pigs	All stages		*	Avoid dampness and cover weak and sick animals with
Goat       All stages       Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weigh         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 an lukewarm food & water         &       Provide feed supplements         Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call					sack cloth.
Goat       All stages       Image: Control of the stage of t				*	Right time to deworm with anti helmetic drugs (particularly
Cattle       All stages       FMD       Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight.					Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
(particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3 kg body weight.         ★ Provide proper bedding materials especially to new-born an lukewarm food & water         ★ Provide feed supplements         Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call	Goat	All stages		*	Deworming for gastrointestinal parasite
kg body weight.         Provide proper bedding materials especially to new-born an lukewarm food & water         Provide feed supplements         Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call	Cattle	All stages	FMD	*	Right time to deworm with anti helmetic drugs
kg body weight.         Provide proper bedding materials especially to new-born an lukewarm food & water         Provide feed supplements         Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call					(particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30
<ul> <li>Provide proper bedding materials especially to new-born an lukewarm food &amp; water</li> <li>Provide feed supplements</li> </ul>					
Iukewarm food & water         Provide feed supplements         Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call				*	<b>e</b>
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call					
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call				*	Provide feed supplements
	Contact Scie	ntists (ICAR) or S	tate Agril Staff	f or KV	
	Contact Sele		U U		e e e e e e e e e e e e e e e e e e e
			at 0.	5175-22	

# 

# **District: Kurung Kumey**

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



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

Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 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 19-20°C and 12°C respectively. Expected morning
	and evening relative humidity will be 84-91% and 65-70%
	respectively. Wind direction is mainly ESE & S with wind speed
	range of 2-6 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		*	is recommended
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	*	protect from cold/frost
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
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.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	* *	Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Mithun		FMD		Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub- cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scien	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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

# **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)

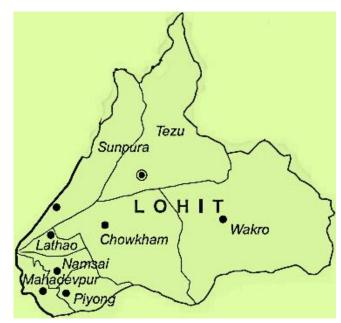


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

## **District:** Lohit

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 25 <sup>th</sup> April 2018
Rainfall = 42.4 mm	Partly/mostly cloudy with possibility of light/moderate rainfall.
(up to 17 <sup>th</sup> April)	Daily maximum and minimum temperature for the following period is
	predicted to be 27-28°C and 18-19°C respectively. Expected morning
	and evening relative humidity will be 81-90% and 24-36%
	respectively. Wind direction is mainly ENE with speed range of 4-6
	kmph.
Warning:	• Nil

### Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	<b>Pest/Disease</b>	<b>Precautionary Practices to be followed</b>
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 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</li> </ul>
			<ul> <li>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	-		
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>Avoid fresh sowing</li> <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	URAL CROPS		
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</li> </ul>

Kiwi	Pruning/Training		•	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. Diseased and senile branches should be removed. Pruning should be done retaining 8-10 buds per branch for enhancing new flush and flowering. Pruned healthy hard wood of pencil thickness size having
			**	4-5 buds can be used as cutting for propagation
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				
Livestock	Stage	Disease		Precautionary Practices to be followed
<ul> <li>Clean d cleaned,</li> </ul>	rinking water sh		to be div round	General verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly
Poultry	All stages		*	Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
Pigs	All stages			Avoid dampness and cover weak and sick animals with sack cloth. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Goat	All stages		*	Deworming for gastrointestinal parasite
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
Contact Scien	tists (ICAR) or S	U	or KV	K staff for measures against adverse conditions or call 6237/226247

# **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

## **District: Lower Dibang Valley**

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 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 24-25°C and 17°C respectively. Expected morning
	and evening relative humidity will be 81-90% and 35-49%
	respectively. Wind direction is mainly ESE with speed range of 5-7
	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.

ees	<ul> <li>during clear/dry weather.</li> <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>
es	<ul> <li>Box must be covered with straw/dry leaves to provide</li> </ul>
OCKS	warmth
ock Stage Disease	<ul> <li>Precautionary Practices to be followed</li> </ul>
eaned, ry	To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
ry All stages	<ul> <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 prevention of cocciodiosis.</li> </ul>
ry All stages All stages All stages	<ul> <li>grains in the morning/evening to supplement scavenging.</li> <li>♦ Day old chick-Maintain warmth by lighting,</li> </ul>
	<ul> <li>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 prevention of cocciodiosis.</li> <li>Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>Right time to deworm with anti helmetic drugs (particularly</li> </ul>
All stages	-

# **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)



ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA** 

(Integrated Agro-Meteorological Advisory Services)



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

## **District: Lower Subansiri**

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 2018
Rainfall = NA	Partly/mostly cloudy with possibility of moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 27-28°C and 18-19°C respectively. Expected
	morning and evening relative humidity will be 81-90% and 52-62%
	respectively. Wind direction is mainly variable with speed range of
	3-4 kmph.
Warning:	• Nil

### Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROP			
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> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> </ul>
			<ul> <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>

Temperate fruits Agroforestry Toko palm Honey Bees Honey bees	After harvesting Nursery		*	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. Training & pruning of the temperate crops (apple/pears/peach) is recommended In case of flowering, stop spraying insecticides/pesticides Filling of nursery polybags for raising of takopalm seedlings Box must be covered with straw/dry leaves to provide
				warmth
LIVESTOCKS		r		
Livestock	Stage	Disease		<ul> <li>Precautionary Practices to be followed</li> <li>General</li> </ul>
<ul> <li>Clean d cleaned,</li> </ul>			o be di round	verted for Poultry/livestock feeding the clock and water troughs/feeders should be regularly
Fishery			*	To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Poultry	All stages			Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * * *	Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Cattle	All stages	FMD	* * *	(particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Provide proper bedding materials especially to new-born and lukewarm food & water
Mithun		FMD	*	

# **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

## **District: Papum Pare**

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 2018
Rainfall: 43.9 mm; T. Max: 34.0°C; T. Min: 18.0°C; RH: 64-88% (up to 17 <sup>th</sup> April)	<b>Mostly cloudy with possibility of moderate rain.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 19-20°C respectively. Expected morning and evening relative humidity will be 78-88% and 45-54% respectively.
	Expected wind direction mainly W & WNW with speed range of 4-5 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
- 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
N :	<b>X</b> X		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>

the base of the plant.         Banana       Multiple stages       Sigatoka Leaf spot <ul> <li>One sword sucker may be allowed after shooting (Flow Periodical removal of side suckers by cutting them abor ground level, scoop the core and pour 2 ml of kerosene core,</li> <li>Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per lin water using stickers in case of rainfall</li> </ul> Honey bees <ul> <li>Box must be covered with straw/dry leaves to prowarmth</li> <li>Livestock</li> <li>Stage</li> <li>Disease</li> <li>Precautionary Practices to be followed</li> <li>General</li> <li>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</li> <li>Clean drinking water should be ensured round the clock and water troughs/feeders should be releated,</li> <li>Fishery</li> <li>To avoid water turbidity, use grass turfing or hortic crop at embankment/dyke of the earthen fish pond.</li> <li>Poultry</li> <li>All stages</li> <li>Provide shelter to the backyard/scavenging poultingrains in the morning/evening to supplement scaver</li> <li>Day old chick-Maintain warmth by lighting,</li> <li>Inclusion of turmeric powder @ 10g/kg fe prevention of coccidoisis.</li> </ul> Pigs     All stages <ul> <li>Avoid dampness and cover weak and sick animals v sack cloth.</li> <li>Right time to deworm with anti helmetic drugs (particular)</li> </ul>				•	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.
Banana       Multiple stages       Sigatoka Leaf spot <ul> <li>One sword sucker may be allowed after shooting (Flow Periodical removal of side suckers by cutting them abor ground level, scoop the core and pour 2 ml of kerosene core,</li> <li>Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per lin water using stickers in case of rainfall</li> </ul> Honey bees <ul> <li>Banana</li> <li>Box must be covered with straw/dry leaves to prowarmth</li> <li>Livestock</li> <li>Stage</li> <li>Disease</li> <li>Precautionary Practices to be followed</li> <li>General</li> <li>Clean drinking water should be ensured round the clock and water troughs/feeders should be resured round the clock and water turbidity, use grass turfing or hortic crop at embankment/dyke of the earthen fish pond.</li> </ul> Poultry         All stages <ul> <li>Provide shelter to the backyard/scavenging poultr grains in the morning/evening to supplement scaver</li> <li>Day old chick-Maintain warmt by lighting,</li> <li>Inclusion of turmeric powder @ 10g/kg fe prevention of coccidoisis.</li> </ul> Pigs       All stages <ul> <li>Avoid dampness and cover weak and sick animals v sack cloth.</li> <li>Right time to deworm with anti helmetic drugs (particular)</li> </ul>	Large Cardamom	Vegetative		*	Provide proper drainage to avoid water stagnation in the base of the plant.
Honey bees       Sox must be covered with straw/dry leaves to prowarmth         Livestock       Stage       Disease       Precautionary Practices to be followed         General       Stage       Disease       Precautionary Practices to be followed         General       Clean drinking water should be ensured round the clock and water troughs/feeders should be releaned,       To avoid water turbidity, use grass turfing or hortic crop at embankment/dyke of the earthen fish pond.         Poultry       All stages       Inclusion of turmeric powder @ 10g/kg feeders.         Pigs       All stages       All stages         Pigs       All stages       All stages	Banana	Multiple stages	U U	*	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
Livestock       Stage       Disease       Precautionary Practices to be followed         General				Н	oney Bees
Livestock       Stage       Disease       Precautionary Practices to be followed         General <ul> <li>             Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</li> <li>             Clean drinking water should be ensured round the clock and water troughs/feeders should be releaned,</li> </ul> Fishery <ul> <li>             Poultry         </li> <li>             All stages         </li> <li>             Pigs             All stages         </li> </ul> Pigs           All stages	Honey bees			*	Box must be covered with straw/dry leaves to provide warmth
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 releaned,             Fishery           ◆ To avoid water turbidity, use grass turfing or hortic crop at embankment/dyke of the earthen fish pond.             Poultry           All stages           ◆ Provide shelter to the backyard/scavenging poultr grains in the morning/evening to supplement scaver             Pigs           All stages           ◆ Inclusion of turmeric powder @ 10g/kg fe prevention of cocciodiosis.             Pigs           All stages           ◆ Avoid dampness and cover weak and sick animals v sack cloth.				LI	VESTOCKS
<ul> <li>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</li> <li>Clean drinking water should be ensured round the clock and water troughs/feeders should be releaned,</li> </ul> Fishery <ul> <li>Fishery</li> <li>Poultry</li> <li>All stages</li> <li>Provide shelter to the backyard/scavenging poultr grains in the morning/evening to supplement scaver</li> <li>Day old chick-Maintain warmt by lighting,</li> <li>Inclusion of turmeric powder @ 10g/kg fe prevention of cocciodiosis.</li> </ul> Pigs         All stages <ul> <li>All stages</li> <li>Right time to deworm with anti helmetic drugs (particular)</li> <li>Right time to deworm with anti helmetic drugs (particular)</li> </ul>	Livestock	Stage	Disease		Precautionary Practices to be followed
Poultry       All stages <ul> <li>Provide shelter to the backyard/scavenging poultr grains in the morning/evening to supplement scaver</li> <li>Day old chick-Maintain warmth by lighting,</li> <li>Inclusion of turmeric powder @ 10g/kg ferprevention of cocciodiosis.</li> </ul> Pigs         All stages <ul> <li>All stages</li> <li>Right time to deworm with anti helmetic drugs (particular)</li> </ul>	<ul> <li>Damage</li> <li>Clean d</li> <li>cleaned,</li> </ul>	d grain (not fung		l round	the clock and water troughs/feeders should be regularly
grains in the morning/evening to supplement scaver         Day old chick-Maintain warmth by lighting,         Inclusion of turmeric powder @ 10g/kg fere         Pigs       All stages         All stages       Avoid dampness and cover weak and sick animals vertice         Stages       Right time to deworm with anti helmetic drugs (partice	Fishery			*	To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Pigs       All stages       Avoid dampness and cover weak and sick animals v sack cloth.         *       Right time to deworm with anti helmetic drugs (particular)	D 1		1	A.	Dravida shaltan ta tha haalwand/saawanging naultry. Faad
	Poultry	All stages		*	grains in the morning/evening to supplement scavenging. Day old chick-Maintain warmth by lighting, Inclusion of turmeric powder @ 10g/kg feed for
Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body				* *	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. Avoid dampness and cover weak and sick animals with
Goat     All stages     Control of the stage of				*	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. Avoid dampness and cover weak and sick animals with

 Cattle
 All stages
 FMD
 Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.

 \*
 Provide proper bedding materials especially to new-born and lukewarm food & water

 \*
 Provide feed supplements

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

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

Agrometeorological Field Unit
ICAR, BASAR

# **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)



ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA** 

(Integrated Agro-Meteorological Advisory Services)



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

## **District: Tawang**

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 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 13-14°C and 3.0-4.0°C respectively. Expected
	morning and evening relative humidity will be 77-84% and 43-58%
	respectively. Wind direction is mainly SSE with probable speed
	range of 4-6 kmph.
Warning:	•

### Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	<b>Pest/Disease</b>	Precautionary Practices to be followed
FIELD CROP		Γ	
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</li> </ul>
			<ul> <li>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	Sowing		<ul> <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 different varieties of maize in Jhum 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>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 on Carbendazim @ 2g/kg seed before sowing</li> </ul>
VEGETABLE	S		
French bean	Sowing		In present weather conditions, sowing of quality treated seeds may be done.
Potato Cabbage/	Vegetative stage/ Harvesting stage Harvesting		<ul> <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			Constantly monitor against attack of insects pests/mole.
Kiwi	URAL CROPS Flowering		Kiwi fruit vine should be covered with 50% shade net to
KIWI	riowering		For the should be covered with 50% shade let 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 case of nowering, stop spraying 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	5		
Livestock	Stage	Disease	<ul> <li>Precautionary Practices to be followed</li> </ul>
•	d grain (not fungus		<ul> <li>be diverted for Poultry/livestock feeding</li> <li>d the clock and water troughs/feeders should be regularly cleaned,</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>
Yak	All stages		<ul> <li>prevention of cocciodiosis.</li> <li>Feeding of concentrate feed along with mineral mixture and salt.</li> <li>Hay feeding is recommended.</li> </ul>
Pigs	All stages	FMD (high fever	
1 150	1 III stages		• ATTOR completes and cover weak and sick annuals with

		and appearance of mucous membrane of the mouth and foot.) Swine Fever	* *	<ul> <li>sack cloth.</li> <li>The bedding is always dry and that there is plenty.</li> <li>If possible wooden sleeping box should be provided.</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> </ul>	
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	
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247					

# **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)



ग्रामीण कृषि मौसम सेवा



(Integrated Agro-Meteorological Advisory Services)



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

## **District:** Tirap

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 25 <sup>th</sup> April 2018
Rainfall = 11.4 mm (up to 17 <sup>th</sup> April)	<b>Partly/mostly cloudy with possibility of light rain.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 19-20°C respectively. Expected morning and evening relative humidity will be 76-99% and 28-41% respectively. Wind direction is mainly ENE & E with speed range of 2-4 kmph.
Warning:	• Nil

### Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS 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,	
HORTICUL	TURAL CROPS			
Citrus	Flowering	Bark eating caterpillar	<ul> <li>Cleaning &amp; smearing of trunk base with Bordeaux during clear/dry days.</li> <li>Budding method of propagation (T-budding) to comme 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/ pesticid may affect pollination process.</li> <li>Spray (Planofix) NAA based growth regulator @: water during flowering stage in orange plant to fruit/flower drop</li> <li>For bark eating caterpillar, remove wooden frainject Dichlorovos (0.1%) @ 5ml with disposable symptometer below the deed participation.</li> </ul>	nces in les as it 2m/5lit reduce ss and inge.
Banana	All stages	Sigatoka Leaf spot	<ul> <li>about 2cm, below the dead portion.</li> <li>One sword sucker may be allowed after shooting (Flow)</li> <li>Periodical removal of side suckers by cutting them abov ground level, scoop the core and pour 2 ml of kerosene core,</li> <li>Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litr water</li> </ul>	the the in the
Honey Bees			, and a second s	
-			<ul> <li>Box must be covered with straw/dry leaves to prove warmth</li> </ul>	ide
LIVESTOCI				
Livestock	Stage	Disease	Precautionary Practices to be followed	
Livestock Gener	Stage cal ged grain (not fung drinking water s d,	gus contaminated)	<ul> <li>o be diverted for Poultry/livestock feeding round the clock and water troughs/feeders should be re</li> <li>To avoid water turbidity, use grass turfing or hortic crop at embankment/dyke of the earthen fish pond.</li> </ul>	ultural
Livestock Gener & Damag & Clean cleane	Stage cal ged grain (not fung drinking water s	gus contaminated)	o be diverted for Poultry/livestock feeding round the clock and water troughs/feeders should be ro To avoid water turbidity, use grass turfing or hortic	ultural 7. Feed
Livestock Gener & Damag & Clean cleane Fishery	Stage cal ged grain (not fung drinking water s d,	gus contaminated)	<ul> <li>o be diverted for Poultry/livestock feeding round the clock and water troughs/feeders should be rest * To avoid water turbidity, use grass turfing or hortic crop at embankment/dyke of the earthen fish pond.         * Provide shelter to the backyard/scavenging poultry grains in the morning/evening to supplement scaveng * Day old chick-Maintain warmth by lighting,         * Avoid dampness and cover weak and sick animals w sack cloth.         * Right time to deworm with anti helmetic drugs (particul)     </li> </ul>	ultural 7. Feed ging. ith arly
Livestock Gener Damag Clean cleane Fishery Poultry	Stage ral ged grain (not fung drinking water s d, All stages	gus contaminated)	<ul> <li>o be diverted for Poultry/livestock feeding round the clock and water troughs/feeders should be re-</li> <li>To avoid water turbidity, use grass turfing or hortic crop at embankment/dyke of the earthen fish pond.</li> <li>Provide shelter to the backyard/scavenging poultry grains in the morning/evening to supplement scaveng</li> <li>Day old chick-Maintain warmth by lighting,</li> <li>Avoid dampness and cover weak and sick animals w sack cloth.</li> </ul>	ultural 7. Feed ging. ith arly
Livestock Gener Damag Clean Cleane Fishery Poultry Pigs	Stage         ral         ged grain (not fung         drinking water s         d,         All stages         All stages	gus contaminated)	<ul> <li>o be diverted for Poultry/livestock feeding round the clock and water troughs/feeders should be re-</li> <li>To avoid water turbidity, use grass turfing or hortic crop at embankment/dyke of the earthen fish pond.</li> <li>Provide shelter to the backyard/scavenging poultry grains in the morning/evening to supplement scaveng</li> <li>Day old chick-Maintain warmth by lighting,</li> <li>Avoid dampness and cover weak and sick animals w sack cloth.</li> <li>Right time to deworm with anti helmetic drugs (particul Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body</li> </ul>	ultural v. Feed ging. ith arly weight per 30

# कृषि मौसम सलाहकार सेवा पत्रिका

## **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)



ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA** 

(Integrated Agro-Meteorological Advisory Services)



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

### **District: Upper Siang**

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 2018
Rainfall = $33.4 \text{ mm}$ (up to $17^{\text{th}}$ April)	Mostly cloudy with possibility of light/moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 21-22°C and 14-15°C respectively. Expected
	morning and evening relative humidity will be 64-78% and 35-54%
	respectively. Wind direction is mainly NE & NNE with speed range
	of 4-8 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

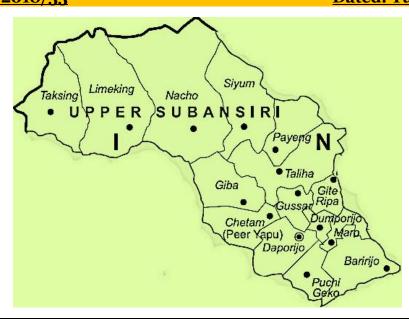
- Spraying operation should be done only on dry/clear weather
- Go for low cost poly-houses for year round cultivation of vegetables
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic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

Crop	Stago	Pest/Disease	Precautionary Practices to be followed
Crop FIELD CROPS	Stage	i csu Disease	
Pea	Seed	Dourdomy	A Dravida adaguate duringge and avoid water stagnation
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>
<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		Provide proper drainage facilities for the toria grown in the WRC field to protect them against heavy rainfall.
VEGETABLE			
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> <li>Dead wood on the citrus trees should be kept pruned,</li> </ul>
			about 2cm, below the dead portion.

Apple	Flowering		*	For woody aphid-Wipe the stem with cloth soaked in mineral oil.
			*	In bearing trees give a spray of Bordeaux mixture (copper
			•	sulphate (2Kg)+quick lime (2kg) in 200litres of water) against
				canker and other diseases.
Banana	Bunching	Cold	*	Cover newly emerged bunches with locally available sack to protect from cold/frost
			•	Mulching with straw/crop residue at root zone to avoid
			•	frost injury in banana.
LIVESTOCK	S			
Livestock	Stage	Disease		Precautionary Practices to be followed
			*	General
0				verted for Poultry/livestock feeding
	_	ould be ensured 1	round	the clock and water troughs/feeders should be regularly
cleaned Poultry	, All stages		*	Provide shelter to the backyard/scavenging poultry. Feed
Foundy	All stages		***	grains in the morning/evening to supplement scavenging.
			*	Inclusion of turmeric powder @ 10g/kg feed for
			•	prevention of cocciodiosis.
Pigs	All stages	FMD (high fever	*	Avoid dampness and cover weak and sick animals with
-		and appearance		sack cloth.
		of mucous	*	Right time to deworm with anti helmetic drugs (particularly
		membrane of the		Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
		mouth and foot.)		
Cattle	All stages	Swine Fever FMD	*	Animals should be given lukewarm feed and water.
Cutte	i ili stuges	TML	*	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
E al a ma			*	lukewarm food & water Provide feed supplements
Fishery			*	lukewarm food & water Provide feed supplements <b>To avoid water turbidity, use grass turfing or horticultural</b>
2		EMD	* *	lukewarm food & water Provide feed supplements <b>To avoid water turbidity, use grass turfing or horticultural</b> <b>crop at embankment/dyke of the earthen fish pond.</b>
Fishery Mithun		FMD	* *	lukewarm food & water Provide feed supplements <b>To avoid water turbidity, use grass turfing or horticultural</b> <b>crop at embankment/dyke of the earthen fish pond.</b> Polyvalent FMD vaccine with serotype O, A and Asia at 6
J.		FMD	* *	lukewarm food & water Provide feed supplements <b>To avoid water turbidity, use grass turfing or horticultural</b> <b>crop at embankment/dyke of the earthen fish pond.</b> Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-
J.		FMD	* * *	lukewarm food & water Provide feed supplements <b>To avoid water turbidity, use grass turfing or horticultural</b> <b>crop at embankment/dyke of the earthen fish pond.</b> 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.
J.		FMD	* * *	lukewarm food & water Provide feed supplements <b>To avoid water turbidity, use grass turfing or horticultural</b> <b>crop at embankment/dyke of the earthen fish pond.</b> Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-
Mithun	ntists (ICAR) or S		* * * *	<ul> <li>lukewarm food &amp; water</li> <li>Provide feed supplements</li> <li>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</li> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be</li> </ul>

> Agrometeorological Field Unit ICAR, BASAR

# <section-header><section-header><section-header><text><text><text><text><text><text><text><text><text>



Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 2018
Daporijo: 2.4 mm (up to 17 <sup>th</sup> April)	Mostly cloudy with possibility of moderate rainfall. Daily
	maximum and minimum temperature for the following period is
	predicted to be 27-28°C and 18-19°C respectively. Expected
	morning and evening relative humidity will be 74-83% and 46-60%
	respectively. Expected wind direction is mainly SE & SSE with
	speed range of 3-5 kmph.
Warning	Thunderstorm in few isolated places

### Weather Based Agro-meteorological Advisories Bulletin

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

Сгор	Stage	Pest/Disease		Precautionary Practices to be followed
	<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> <li>Cut the tips of the leaves before transplanting reduces the</li> </ul>
				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, Make proper drainage in the crop field,
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
C'	171 .			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 Kiwi	Flowering		• • • • • • • • • • • • • • • • • • • •	<ul> <li>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>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> <li>Kiwi fruit vine should be covered with 50% shade net to protect flower flower heavy primer and heal stemm.</li> </ul>
				protect flowers from heavy rain and hail storm.
Temperate fruits	After harvesting		*	Training & pruning of the temperate crops (apple/pears/peach) is recommended
			Hone	ey Bees
Honey bees			*	Provide sugar syrup near the box
			*	Add insulation and ventilation systems
			LIVES	STOCKS
Livestock	Stage	Disease		Precautionary Practices to be followed
			Ge	neral
• Damaged gr	ain (not fungus co	ntaminated) to be	e divert	ed for Poultry/livestock feeding
	ing water should b	e ensured round		k and water troughs/feeders should be regularly cleaned,
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.
			*	Inclusion of turmeric powder @ 10g/kg feed for
D.	A 11 /			Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.
Pigs	All stages	FMD (high fever	*	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with
Pigs	All stages	and appearance		Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth.
Pigs	All stages		*	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty.
Pigs	All stages	and appearance of mucous	*	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided.
Pigs	All stages	and appearance of mucous membrane of the	* * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water.
Pigs	All stages	and appearance of mucous membrane of the mouth and foot.)	*	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly
		and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Pigs	All stages All stages	and appearance of mucous membrane of the mouth and foot.)	* * * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Animals should be given lukewarm feed and water.
		and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs
		and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. Animals should be given lukewarm feed and water.
		and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * * * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. 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
		and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * * * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. 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
Cattle		and appearance of mucous membrane of the mouth and foot.) Swine Fever FMD	* * * * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. 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
		and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * * * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. 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 Polyvalent FMD vaccine with serotype O, A and Asia at 6
Cattle		and appearance of mucous membrane of the mouth and foot.) Swine Fever FMD	* * * * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. 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
Cattle		and appearance of mucous membrane of the mouth and foot.) Swine Fever FMD	* * * * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. 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 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.
Cattle	All stages	and appearance of mucous membrane of the mouth and foot.) Swine Fever FMD FMD	* * * * * *	<ul> <li>Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.</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>If possible wooden sleeping box should be provided.</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>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>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>Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>Provide feed supplements</li> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
Cattle	All stages	and appearance of mucous membrane of the mouth and foot.) Swine Fever FMD FMD	* * * * * * * * *	Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. If possible wooden sleeping box should be provided. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. 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 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

> Agrometeorological Field Unit ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

# **Agro-met Advisory Bulletin**

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)



ग्रामीण कृषि मौसम सेवा



**GRAMIN KRISHI MAUSAM SEWA** 

(Integrated Agro-Meteorological Advisory Services)



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

### **District: West Kameng**

No: AMFU-Basar/2018/33

Dated: Tue, 24<sup>th</sup> April, 2018



Weather summery of the previous week	Weather forecast valid up to 29 <sup>th</sup> April 2018
Rainfall = Bomdila: 0.0 ; Bhalukpong: 28.4	
mm (up to 17 <sup>th</sup> April)	maximum and minimum temperature for the following period is
	predicted to be 22°C and 13°C respectively. Expected morning and
	evening relative humidity will be 76-86% and 39-52% respectively. Wind direction is mainly NW & NNW with speed range of 4-6
	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				
Rice	Nursery/trans	Stem borer	•	Rice: Weed free & clean nursery periphery to prevent
	plantation			disease/pest harboring.
			•	Wet seed treatment for 12hrs. in Carbendazim 50% WP
				(1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.
			•	
			•	Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.
			•	Cut the tips of the leaves before transplanting reduces the
			•	population of stem borer as the eggs are laid on that site. It
				will reduce the carryover of the infestation to the main field.
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
		•	*	If the infestation is high, Spray Dimethoate 30EC @2ml/litre
				against aphids in Rapeseed/Mustard using sticker or during
				clear/dry days.
VEGETABLE	S			
Cucurbits	Nursery/Sowing		*	Prepare nursery in shaded area
			*	Procure quality seed from certified agency.
			*	Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
			*	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
			*	lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of
HORTICULT	URAL CROPS		*	lesion in the leaves
	URAL CROPS		*	lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall
HORTICULT Kiwi	<b>URAL CROPS</b> Flowering			lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall <b>Kiwi fruit vine should be covered with 50% shade net to</b>
Kiwi	Flowering		*	lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
			*	lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall <b>Kiwi fruit vine should be covered with 50% shade net to</b>
Kiwi	Flowering		*	lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm. For woody aphid-Wipe the stem with cloth soaked in mineral
Kiwi	Flowering		*	<ul> <li>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> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <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</li> </ul>
Kiwi	Flowering		*	<ul> <li>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> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <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>
Kiwi	Flowering	Cold	*	<ul> <li>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> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <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> <li>Cover newly emerged bunches with locally available sack to</li> </ul>
Kiwi Apple Banana	Flowering Flowering Bunching	Cold	*	<ul> <li>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> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <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>
Kiwi Apple Banana LIVESTOCKS	Flowering Flowering Bunching		*	<ul> <li>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> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <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> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> </ul>
Kiwi Apple Banana	Flowering Flowering Bunching	Cold Disease	* * *	lesion in the leaves         Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall         Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.         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.         Cover newly emerged bunches with locally available sack to protect from cold/frost         ♦ Precautionary Practices to be followed
Kiwi Apple Banana LIVESTOCKS Livestock	Flowering Flowering Bunching S Stage	Disease	* * * *	lesion in the leaves         Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall         Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.         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.         Cover newly emerged bunches with locally available sack to protect from cold/frost         ♦ Precautionary Practices to be followed         General
Kiwi Apple Banana LIVESTOCKS Livestock & Damage & Clean d	Flowering Flowering Bunching S Stage ed grain (not fungu Irinking water sh	Disease 1s contaminated)	* * * to be div	lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm. 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. Cover newly emerged bunches with locally available sack to protect from cold/frost Precautionary Practices to be followed
Kiwi Apple Banana LIVESTOCK Livestock & Damage & Clean d cleaned,	Flowering Flowering Bunching S Stage ed grain (not fungu Irinking water sh	Disease 1s contaminated)	* * * to be div	lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm. 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. 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
Kiwi Apple Banana LIVESTOCKS Livestock & Damage & Clean d	Flowering Flowering Bunching S Stage ed grain (not fungu Irinking water sh	Disease 1s contaminated)	* * * to be div	lesion in the leaves         Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall         Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.         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.         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
Kiwi Apple Banana LIVESTOCK Livestock & Damage & Clean d cleaned, Fishery	Flowering Flowering Bunching S Stage ed grain (not fungu Irinking water sh	Disease 1s contaminated)	* * * to be div round	lesion in the leaves Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm. 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. 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 To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Kiwi Apple Banana LIVESTOCK Livestock & Damage & Clean d cleaned,	Flowering Flowering Bunching S Stage ed grain (not fungu Irinking water sh	Disease 1s contaminated)	* * * to be div	lesion in the leaves         Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall         Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.         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.         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

				Hay feeding is recommended.
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,
			*	
			·	using gunny bags/plastic sheets around the poultry shed duri
			•	night,
				Provide heat by lighting 100W bulb @ 1 bulb per 20 new born chicks.
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 mouth and foot.)	*	If possible wooden sleeping box should be provided.
		Swine Fever	*	Animals should be given lukewarm feed and water.
		Swille I ever	**	Right time to deworm with anti helmetic drugs (particularly
				Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weig
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
				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 of ficials,
			**	Avoid mixing of infected and healthy animals,
				Keep infected animals separated from the healthy ones,
				Vaccinate the healthy animals against FMD (Through Sta
				Veterinary Dept.)
				Provide feed supplements
Mithun		FMD	*	Polyvalent FMD vaccine with serotype O, A and Asia at
				months of age and repeat after that 6 months interval by su
			**	cutaneous route.
			***	Pregnant animals above 7 months of pregnancy should
				avoided.

> Agrometeorological Field Unit ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका Agro-met Advisory Bulletin

(Period: 25<sup>th</sup> to 27<sup>th</sup> April, 2018)

ग्रामीण कृषि मौसम सेवा



### GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

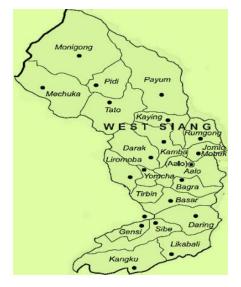


AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

### **District: West Siang**

No: AMFU-Basar/2018/33

Dated: Tue, 24<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 29 <sup>th</sup> April 2018
<b>Basar:</b> Rainfall =0.0 mm. T. Max: 27.8°C,	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 27-28°C and 18-19°C respectively. Expected
	morning and evening relative humidity will be 62-73% and 35-48%
	respectively. Wind direction is mainly SE with speed range of 4-6
	kmph.
Warning:	• Nil

### Weather Based Agro-meteorological Advisories Bulletin

### **General Recommendations**

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

Citrus	Flowering	Bark eating caterpillar/ Blackfly/ Mites	<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> <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 Diablemane (0.19())@ 5ml mith dimensible growing</li> </ul>
Kiwi	Flowering		<ul> <li>inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> <li>Kiwi fruit vine should be covered with 50% shade net to</li> </ul>
Apple	Flowering		<ul> <li>protect flowers from heavy rain and hail storm.</li> <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>
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>
HONEY BEES Honey bees			<ul> <li>Cover the boxes with locally available dry grass or straw to provide warmt</li> </ul>
LIVESTOCKS	5		
Livestock	Stage	Disease	Precautionary Practices to be followed
Fishery			To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Poultry	All stages		<ul> <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 prevention of cocciodiosis.</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <li>Avoid dampness and cover weak and sick animals with sack cloth.</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> </ul>
Cattle	All stages	FMD	<ul> <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>Provide feed supplements</li> </ul>
Mithun		FMD	<ul> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
Contact Scien	tists (ICAR) or		or KVK staff for measures against adverse conditions or call 795-226237/226247