

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



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



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

District: Anjaw

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

Weather summary of the previous week	Weather forecast valid up to 2 nd May 2018
No weather summary available	Partly/mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 25°C and 16°C respectively. Expected morning and evening relative humidity will be 90-92% and 41-62% respectively. Wind direction is mainly NE with average wind speed range of 3-7 kmph.
Warning:	<ul style="list-style-type: none">• Nil

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. • Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field. • Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Jhum field	Sowing		<ul style="list-style-type: none"> • Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. • Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing. • Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> ❖ Provide adequate drainage and avoid water stagnation near the base of the plants. ❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Toria/ Mustard	Maturity	Aphids	<ul style="list-style-type: none"> ❖ Provide adequate drainage ❖ If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLES			
Ginger/ Turmeric	Maturity		<ul style="list-style-type: none"> ❖ Harvest the mature crop on clear day, ❖ Cure should be taken while harvest so that the rhizome is not damaged,
Summer vegetables	Sowing		<ul style="list-style-type: none"> ❖ Right time for transplantation of healthy seedlings to main field from nursery ❖ Sowing advocated during clear/dry days ❖ Provide adequate drainage to already sown crops
Potato	Vegetative stage/ Harvesting stage		<ul style="list-style-type: none"> ❖ Harvesting only during clear/dry days ❖ Store already harvested crops in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.
Cabbage/ Cauliflower	Harvesting		<ul style="list-style-type: none"> ❖ Harvest mature crop. ❖ Constantly monitor against attack of insects pests/mole.
HORTICULTURAL CROPS			
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> • Cleaning & smearing of trunk base with Bordeaux paste. • Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. • 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.
Orchards (Orange, Banana, Apple, Peach etc)			<ul style="list-style-type: none"> ❖ Prepare half moon terraces in fruit crops grown in steep slopes to prevent nutrient loss during heavy downpour.
Banana	Bunching	Cold	<ul style="list-style-type: none"> ❖ Cover newly emerged bunches with locally available sack to protect from cold/frost

Large cardamom	Sowing		<ul style="list-style-type: none"> ❖ 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			
Livestock	Stage	Disease	❖ Precautionary Practices to be followed
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> ❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		<ul style="list-style-type: none"> ❖ Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. ❖ Day old chick-Maintain warmth by lighting,
Fishery			<ul style="list-style-type: none"> ❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Cattle	All stages	FMD	<ul style="list-style-type: none"> ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
Mithun		FMD	<ul style="list-style-type: none"> ❖ 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 from vaccination.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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

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



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

District: Changlang

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

Weather summary of the previous week	Weather forecast valid up to 2 nd May 2018
Rainfall = Changlang: 0.0 mm Miao: 19.4 mm (up to 17 th April)	Partly/mostly cloudy with possibility of moderate rain. Daily maximum and minimum temperature for the following period is predicted to be 30-31°C and 20-21°C respectively. Expected morning and evening relative humidity will be 58-94% and 21-53% respectively. Wind direction is mainly SE & ESE with speed range of 4-5 kmph.
Warning	Nil

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

- 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 style="list-style-type: none">• Rice: Weed free & clean nursery periphery to prevent disease/pest harboring.• Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing.• Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Maize	Vegetative	Soybean looper	<ul style="list-style-type: none">❖ Spraying of Quinalphos 25 EC 2ml/litre of water is advised,❖ Monitor the crop against attack of insect pests,❖ Make proper drainage in the crop field,
Jhum field	Sowing		<ul style="list-style-type: none">• Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
Pea	Seed development/ maturity	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none">❖ Harvest mature crops❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
VEGETABLES			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none">❖ 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		<ul style="list-style-type: none">❖ Prepare nursery in shaded area❖ Procure quality seed from certified agency.❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.❖ Transplant during clear/dry days in a raised plot with proper drainage
French Bean	Sowing		<ul style="list-style-type: none">❖ In present weather conditions, sowing of quality seeds may be done,❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Okra	Sowing		<ul style="list-style-type: none">❖ Procure quality seed from certified agency.❖ Avoid sowing during rainy days
Potato	Maturity/ Harvesting		<ul style="list-style-type: none">❖ Harvesting can be done on clear/dry days❖ If already harvested, store in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.
Ginger/ Turmeric	Maturity		<ul style="list-style-type: none">❖ Harvest the mature crop,❖ Cure should be taken while harvest so that the rhizome is not damaged,
HORTICULTURAL CROPS			
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none">• Cleaning & smearing of trunk base with Bordeaux paste.• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.

			<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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.
Banana	Bunching	Cold	<ul style="list-style-type: none"> Cover newly emerged bunches with locally available sack to protect from cold/frost Mulching with straw/crop residue at root zone to avoid frost injury in banana.
HONEY BEES			
Honey bees			<ul style="list-style-type: none"> Box must be covered with straw/dry leaves to provide warmth Provide sugar syrup
LIVESTOCKS			
Livestock	Stage	Disease	❖ Precautionary Practices to be followed
❖ 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,			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Poultry	All stages		<ul style="list-style-type: none"> Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.
Goat	All stages		❖ Deworming for gastrointestinal parasite
Cattle	All stages	FMD	<ul style="list-style-type: none"> 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: - IAAS.BASAR@gmail.com, Phone Number: - 03795-226247/37, -96 (Fax)

Agrometeorological Field Unit
ICAR, BASAR

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Dibang Valley

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

Weather summary of the previous week	Weather forecast valid up to 2 nd May 2018
Rainfall = 1.0 mm (Anini) (up to 17 th April)	Partly/mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 22-23°C and 13°C respectively. Expected morning and evening relative humidity will be 92-96% and 46-73% respectively. Wind direction is mainly SE & ESE with speed range of 4-6 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

General recommendations

- 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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> ❖ Provide adequate drainage and avoid water stagnation near the base of the plants. ❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. • Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field. • Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Jhum field	Sowing		<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> ❖ Provide adequate drainage ❖ If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLES			
Cucurbits	Nursery/Sowing		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Potato	Maturity/ Harvesting		<ul style="list-style-type: none"> ❖ Harvesting recommended during clear/dry days ❖ Store already harvested potatoes in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.
HORTICULTURAL CROPS			
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> • Cleaning & smearing of trunk base with Bordeaux paste. • Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. • Cleaning & smearing of trunk base with Bordeaux paste • If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. • Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop • For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. • Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
Large cardamom	Sowing		<ul style="list-style-type: none"> ❖ Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation.
Kiwi	Flowering		<ul style="list-style-type: none"> ❖ Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
Apple	Flowering		<ul style="list-style-type: none"> ❖ 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.
Honey Bees			
Honey bees			<ul style="list-style-type: none"> ❖ Cover the boxes with locally available dry grass or straw to provide warmth ❖ Provide sugar syrup in a bowl in front of the box in case of heavy rainfall
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
<ul style="list-style-type: none"> ❖ 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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> ❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			<ul style="list-style-type: none"> ❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Poultry	All stages		<ul style="list-style-type: none"> ❖ 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 coccidiosis.
Cattle	All stages	FMD	<ul style="list-style-type: none"> ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Supportive treatment of infected animals under supervision of veterinary department officials, ❖ Avoid mixing of infected and healthy animals, ❖ Keep infected animals separated from the healthy ones, ❖ Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) ❖ Provide feed supplements
Mithun		FMD	<ul style="list-style-type: none"> ❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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 Contact: - IAAS.BASAR@gmail.com, Phone Number: - 03795-226247/37, -96 (Fax)

Agrometeorological Field Unit
 ICAR, BASAR

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



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

District: East Kameng

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



Weather summary of the previous week	Weather forecast valid up to 2 nd May 2018
Rainfall = 5.3 mm (up to 17 th April)	Partly/Mostly cloudy with possibility moderate rain. Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 18°C respectively. Expected morning and evening relative humidity will be 74-94% and 35-68% respectively. Expected wind direction is mainly variable with speed range of 3-5 kmph.
Warning:	•

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyrifos 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 field	Sowing		<ul style="list-style-type: none"> • Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. • Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing. • Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
Maize	Sowing		<ul style="list-style-type: none"> ❖ Treat the seeds before sowing with Captan 50% WP @2g/kg seed, ❖ Make proper drainage in the crop field
Pea	Pod mature	Birds	<ul style="list-style-type: none"> ❖ Avoid water stagnation near base of the plants ❖ Harvest of green pods, ❖ Use of scare crow and tying of bird scare tape around the crop field,
❖ VEGETABLES			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Potato	Maturity/ harvesting		<ul style="list-style-type: none"> ❖ Harvest only during clear/dry days
HORTICULTURAL CROPS			
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> • Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. • Budding method of propagation (T-budding) to commence in oranges using Rangpur lime as rootstock. • Cleaning & smearing of trunk base with Bordeaux paste • If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. • Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop • For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. • Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
Banana	Bunching	Cold	<ul style="list-style-type: none"> ❖ Cover newly emerged bunches with locally available sack to protect from cold/frost ❖ Mulching with straw/crop residue at root zone to avoid frost injury in banana.
Large Cardamom	Vegetative/ flowering stage		<ul style="list-style-type: none"> ❖ Provide proper drainage to avoid water stagnation in the base of the plants.

LIVESTOCKS			
Livestock	Stage	Disease	❖ Precautionary Practices to be followed
<div>❖ General</div> <div>❖ Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</div> <div>❖ Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</div>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<div>❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</div> <div>❖ Avoid dampness and cover weak and sick animals with sack cloth.</div> <div>❖ The bedding is always dry and that there is plenty.</div> <div>❖ Animals should be given lukewarm feed and water.</div> <div>❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</div>
Pigs	All stages		<div>❖ Avoid dampness and cover weak and sick animals with sack cloth.</div> <div>❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</div>
Goat	All stages		<div>❖ Deworming for gastrointestinal parasite</div>
Fishery			<div>❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</div>
Cattle	All stages	FMD	<div>❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</div> <div>❖ Provide proper bedding materials especially to new-born and lukewarm food & water</div> <div>❖ Provide feed supplements</div>
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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

Agrometeorological Field Unit
ICAR. BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: East Siang

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

Weather summary of the previous week	Weather forecast valid up to 2 nd May 2018
Rainfall: 104.8 mm; T. Max: 32.0°C; T. Min: 18.0°C ; RH: 54-100% (up to 17 th April)	Partly/Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 30-31°C and 20-21°C respectively. Expected morning and evening relative humidity will be 74-94% and 33-84% respectively. Expected wind direction is NNW & W variable with speed range of 3-6 kmph.
Warning:	<ul style="list-style-type: none">• Nil

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

- 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	Vegetative	Soybean looper	<ul style="list-style-type: none"> ❖ Spraying of Quinalphos 25 EC 2ml/litre of water is advised, ❖ Monitor the crop against attack of insect pests, ❖ Make proper drainage in the crop field,
Rice	Nursery/transplantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyrifos 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 field	Sowing		<ul style="list-style-type: none"> • Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. • Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing. • Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
Pea	Pod mature	Birds	<ul style="list-style-type: none"> ❖ Harvest of green pods, ❖ Use of scare crow and tying of bird scare tape around the crop field,
Toria/ Mustard	Maturity/ Harvesting	Aphid	<ul style="list-style-type: none"> ❖ Harvesting of mature crop, ❖ If only infestation is high, Spraying of dimethoate @ 2 ml per litre of water is advised using proper sticker,
VEGETABLES			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @ 1ml/litre/ kilogram seed before sowing.
Potato	Maturity/ Harvesting stage	Red ant	<ul style="list-style-type: none"> ❖ Right time to harvest mature crops during dry days ❖ If already harvested, Store in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage.
French Bean	Sowing		❖ Can be sown on clear/dry days
Okra	Sowing		<ul style="list-style-type: none"> ❖ Sowing during clear/dry days making bunds. ❖ Procure quality seed from certified agency.
HORTICULTURAL CROPS			
Citrus	Flowering	Bark eating caterpillar/ Blackfly/ Mites	<ul style="list-style-type: none"> • About 50% eggs laid by the citrus blackfly hatch during 2nd half of April month. The nymphs and adults both suck cell sap from young leaves and twigs. Spray Monocrotophos 10 ml or Quinalphos 15 ml per liter os water with second spray after 15 days on clear/dry days or using stickers. • Against mites, spray Dicofol 1.8EC @ 15ml/liter of water during clear/dry weather. • Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days.

			<ul style="list-style-type: none"> 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.
Large cardamom	Sowing		<ul style="list-style-type: none"> ❖ 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.
Honey Bees			
Honey bees			<ul style="list-style-type: none"> ❖ Cover the boxes with locally available dry grass or straw to provide warmth
LIVESTOCKS			
Livestock	Stage	Disease	❖ Precautionary Practices to be followed
<ul style="list-style-type: none"> ❖ 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 style="list-style-type: none"> ❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> ❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		<ul style="list-style-type: none"> ❖ 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 coccidiosis.
Goat	All stages		<ul style="list-style-type: none"> ❖ Deworming for gastrointestinal parasite
Cattle	All stages	FMD	<ul style="list-style-type: none"> ❖ 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			

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Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Kurung Kumey

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

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

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

- **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**

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. • Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field. • Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Jhum Rice	Land Preparation		<ul style="list-style-type: none"> ❖ Arrangement of quality seeds, ❖ Make structures to avoid runoff in the slope, ❖ ICAR Basar recommends procuring quality seeds of Bhalum1,2,3 & 4 in Jhum apart from the local varieties. ❖ Sowing to be done on clear/dry days ❖ Intercropping of leguminous crops (cowpea /frenchbean /soybean) at 2-3 rows across the slope in jhum field at desirable interval with rice advocated.
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> ❖ Provide adequate drainage and avoid water stagnation near the base of the plants. ❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Toria/ Mustard	Maturity	Aphids	<ul style="list-style-type: none"> ❖ Provide adequate drainage ❖ If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLES			
Cucurbits	Nursery/Sowing		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Summer vegetables	Sowing		<ul style="list-style-type: none"> ❖ Sowing advocated during clear/dry days
Potato	Vegetative stage/ Harvesting stage	Late blight/ Red ant	<ul style="list-style-type: none"> ❖ Harvesting during clear/dry days ❖ Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves ❖ Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall..
Cabbage/ Cauliflower	Harvesting		<ul style="list-style-type: none"> ❖ Harvest mature crop. ❖ Constantly monitor against attack of insects pests/mole.
HORTICULTURAL CROPS			
Large cardamom	Sowing		<ul style="list-style-type: none"> ❖ Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation.
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> • Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. • Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. • Cleaning & smearing of trunk base with Bordeaux paste • If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. • Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop • For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. • Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
Apple	Flowering		<ul style="list-style-type: none"> ❖ For woody aphid-Wipe the stem with cloth soaked in mineral oil.

			❖ In bearing trees give a spray of Bordeaux mixture (copper sulphate (2Kg)+quick lime (2kg) in 200litres of water) against canker and other diseases.
Temperate fruits	After harvesting		❖ Training & pruning of the temperate crops (apple/pears/peach) is recommended ❖ In case of flowering, stop spraying insecticides/pesticides
Pineapple	Harvesting		❖ After winter harvest, collection/Selection of suckers & slip to be done for next season planting
Kiwi	Flowering		❖ Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
Banana	Bunching	Cold	❖ Cover newly emerged bunches with locally available sack to protect from cold/frost ❖ Mulching with straw/crop residue at root zone to avoid frost injury in banana.
Honey Bees			
			❖ Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
General ❖ Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding ❖ Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,			
Livestock	Stage	Disease	Precautionary Practices to be followed
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Cattle	All stages	FMD	❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
Poultry	All stages		❖ Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.
Mithun		FMD	❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.
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Agrometeorological Field Unit

ICAR. BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Lohit

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



Weather summary of the previous week	Weather forecast valid up to 2 nd May 2018
Rainfall = 42.4 mm (up to 17 th April)	Partly/mostly cloudy with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 29°C and 19-20°C respectively. Expected morning and evening relative humidity will be 75-90% and 28-64% respectively. Wind direction is mainly ENE with speed range of 4-5 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyrifos 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.
Maize	Vegetative	Soybean looper	<ul style="list-style-type: none"> ❖ Spraying of Quinalphos 25 EC 2ml/litre of water is advised, ❖ Monitor the crop against attack of insect pests, ❖ Make proper drainage in the crop field,
Jhum field	Sowing		<ul style="list-style-type: none"> • Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. • Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing. • Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> ❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
VEGETABLES			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
French Bean	Sowing		❖ Sowing of quality seeds advocated
Okra	Sowing		<ul style="list-style-type: none"> ❖ Proper drainage to already sown crops ❖ Avoid fresh sowing
Potato	Maturity/ Harvesting	Late blight/ Red ant	<ul style="list-style-type: none"> ❖ Immediate harvesting advocated during clear/dry days ❖ Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves ❖ Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall..
Ginger/ Turmeric	Maturity		<ul style="list-style-type: none"> ❖ Harvest the mature crop, ❖ Cure should be taken while harvest so that the rhizome is not damaged,
HORTICULTURAL CROPS			
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> • Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. • Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. • Cleaning & smearing of trunk base with Bordeaux paste • If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. • Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop

			<ul style="list-style-type: none"> 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.
Kiwi	Pruning/Training		<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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			<ul style="list-style-type: none"> Cover the boxes with locally available dry grass or straw to provide warmth
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
<ul style="list-style-type: none"> 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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. Avoid dampness and cover weak and sick animals with sack cloth. The bedding is always dry and that there is plenty. Animals should be given lukewarm feed and water. Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		<ul style="list-style-type: none"> 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 coccidiosis.
Goat	All stages		<ul style="list-style-type: none"> Deworming for gastrointestinal parasite
Fishery			<ul style="list-style-type: none"> To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Cattle	All stages	FMD	<ul style="list-style-type: none"> 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			

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Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Lower Dibang Valley

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



Weather summary of the previous week	Weather forecast valid up to 2 nd May 2018
Rainfall = 98.0 mm (Roing) (up to 17 th April)	Partly/mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 18°C respectively. Expected morning and evening relative humidity will be 86-93% and 38-71% respectively. Wind direction is mainly ESE with speed range of 4-6 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyrifos 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.
Maize	Vegetative	Soybean looper	<ul style="list-style-type: none"> ❖ Spraying of Quinalphos 25 EC 2ml/litre of water is advised, ❖ Monitor the crop against attack of insect pests, ❖ Make proper drainage in the crop field,
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> ❖ Provide adequate drainage and avoid water stagnation near the base of the plants. ❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Jhum field	Sowing		<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> ❖ Provide adequate drainage ❖ If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLES			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
French Bean	Sowing		❖ Sowing can be done during clear/dry days
Okra	Sowing		<ul style="list-style-type: none"> ❖ Avoid sowing ❖ Provide adequate drainage to already sown crops
Potato	Vegetative stage/ Harvesting stage		❖ Avoid harvesting
HORTICULTURAL CROPS			
Large cardamom	Sowing		<ul style="list-style-type: none"> ❖ 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.
Citrus	Flowering	Bark eating caterpillar/ Blackfly/ Mites	<ul style="list-style-type: none"> • About 50% eggs laid by the citrus blackfly hatch during 2nd 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.

			<ul style="list-style-type: none"> • Against mites, spray Dicofol 1.8EC @ 15ml/liter of water during clear/dry weather. • Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. • Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. • Cleaning & smearing of trunk base with Bordeaux paste • If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. • Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop • For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.
Honey Bees			
Honey bees			❖ Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	Stage	Disease	❖ Precautionary Practices to be followed
❖ 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,			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
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 coccidiosis.
Goat	All stages		❖ Deworming for gastrointestinal parasite
Cattle	All stages	FMD	❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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Contact: - IAAS.BASAR@gmail.com, Phone Number: - 03795-226247/37, -96 (Fax)

Agrometeorological Field Unit

ICAR. BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Lower Subansiri

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



Weather summary of the previous week	Weather forecast valid up to 2 nd May 2018
Rainfall = NA	Partly/mostly cloudy with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 29°C and 19-20°C respectively. Expected morning and evening relative humidity will be 80-96% and 45-79% respectively. Wind direction is mainly SE & SSE with speed range of 2-4 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. • Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field. • Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Jhum field	Sowing		<ul style="list-style-type: none"> • Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. • Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing. • Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> ❖ Provide adequate drainage and avoid water stagnation near the base of the plants. ❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Toria/ Mustard	Seed formation/ ripening	Aphids	<ul style="list-style-type: none"> ❖ Suspend spray operations. ❖ Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard on clear/dry days.
VEGETABLES			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> • 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
Potato	Vegetative stage/ Harvesting stage		<ul style="list-style-type: none"> ❖ Avoid harvesting under current weather condition. (Harvest only during clear/dry days)
HORTICULTURAL CROPS			
Large cardamom	Sowing		<ul style="list-style-type: none"> ❖ 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.
Kiwi	Flowering		<ul style="list-style-type: none"> ❖ Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
Apple	Flowering		<ul style="list-style-type: none"> ❖ For woody aphid-Wipe the stem with cloth soaked in mineral oil. ❖ In bearing trees give a spray of Bordeaux mixture (copper sulphate (2Kg)+quick lime (2kg) in 200litres of water) against canker and other diseases.
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> • Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. • Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. • Cleaning & smearing of trunk base with Bordeaux paste • If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. • Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop

			<ul style="list-style-type: none"> • For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. • Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
Temperate fruits	After harvesting		<ul style="list-style-type: none"> ❖ Training & pruning of the temperate crops (apple/pears/peach) is recommended ❖ In case of flowering, stop spraying insecticides/pesticides
Agroforestry			
Toko palm	Nursery		<ul style="list-style-type: none"> ❖ Filling of nursery polybags for raising of takopalm seedlings
Honey Bees			
Honey bees			<ul style="list-style-type: none"> ❖ Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	Stage	Disease	❖ Precautionary Practices to be followed
<ul style="list-style-type: none"> ❖ 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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> ❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			<ul style="list-style-type: none"> ❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> ❖ 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	<ul style="list-style-type: none"> ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
Mithun		FMD	<ul style="list-style-type: none"> ❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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Agrometeorological Field Unit
 ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Papum Pare

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Maize	Vegetative	Soybean looper	<ul style="list-style-type: none"> ❖ Spraying of Quinalphos 25 EC 2ml/litre of water is advised, ❖ Monitor the crop against attack of insect pests, ❖ Make proper drainage in the crop field,
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. • Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field. • Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Jhum field	Sowing		<ul style="list-style-type: none"> • Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. • Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing. • Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
VEGETABLES			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
French Bean	Sowing		<ul style="list-style-type: none"> ❖ In present weather conditions, sowing of quality seeds may be done in shady areas, ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Okra	Sowing		<ul style="list-style-type: none"> ❖ Procure quality seed from certified agency. ❖ Avoid sowing
Potato	Maturity/ Harvesting stage	Late blight/ Red ant	<ul style="list-style-type: none"> ❖ Avoid harvesting ❖ Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves ❖ Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall..
Ginger/ Turmeric	Maturity		<ul style="list-style-type: none"> ❖ Harvest the mature crop during clear/dry days, ❖ Cure should be taken while harvest so that the rhizome is not damaged,
HORTICULTURAL CROPS			
Citrus	Flowering	Bark eating caterpillar/ Blackfly/ Mites	<ul style="list-style-type: none"> • About 50% eggs laid by the citrus blackfly hatch during 2nd half of April month. The nymphs and adults both suck cell sap from young leaves and twigs. Spray Monocrotophos 10 ml or Quinalphos 15 ml per liter os water with second spray after 15 days on clear/dry days or using stickers. • Against mites, spray Dicofol 1.8EC @ 15ml/liter of water during clear/dry weather. • Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days.

			<ul style="list-style-type: none"> 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.
Large Cardamom	Vegetative		❖ Provide proper drainage to avoid water stagnation in the base of the plant.
Banana	Multiple stages	Sigatoka Leaf spot	❖ One sword sucker may be allowed after shooting (Flowering), ❖ Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, ❖ Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of water using stickers in case of rainfall
Honey Bees			
Honey bees			❖ Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
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,			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
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 coccidiosis.
Goat	All stages		❖ Deworming for gastrointestinal parasite
Cattle	All stages	FMD	❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Tawang

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. • Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field. • Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Maize	Sowing		<ul style="list-style-type: none"> • Sowing of Maize advocated • Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing • Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field
Jhum field	Sowing		<ul style="list-style-type: none"> • Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. • Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. • Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing
VEGETABLES			
French bean	Sowing		❖ In present weather conditions, sowing of quality treated seeds may be done.
Potato	Vegetative stage/ Harvesting stage		❖ Harvesting can be done in clear/dry weather ❖ Store harvested potatoes in cool/dry places.
Cabbage/ Cauliflower	Harvesting		❖ Harvest mature crop. ❖ Constantly monitor against attack of insects pests/mole.
HORTICULTURAL CROPS			
Kiwi	Flowering		❖ Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
Apple	Flowering		❖ For woody aphid-Wipe the stem with cloth soaked in mineral oil. ❖ In bearing trees give a spray of Bordeaux mixture (copper sulphate (2Kg)+quick lime (2kg) in 200litres of water) against canker and other diseases during clear/dry days.
Temperate fruits	After harvesting		❖ Training & pruning of the temperate crops (apple/pears/peach) is recommended ❖ In case of flowering, stop spraying insecticides/pesticides
Banana	Bunching	Cold	❖ 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.
LIVESTOCKS			
Livestock	Stage	Disease	❖ Precautionary Practices to be followed
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,			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty.

			<ul style="list-style-type: none">❖ Animals should be given lukewarm feed and water.❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		<ul style="list-style-type: none">❖ 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 coccidiosis.
Yak	All stages		<ul style="list-style-type: none">❖ Feeding of concentrate feed along with mineral mixture and salt.❖ Hay feeding is recommended.
Cattle	All stages	FMD	<ul style="list-style-type: none">❖ 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			

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Contact: - IAAS.BASAR@gmail.com, Phone Number: - 03795-226247/37, -96 (Fax)

Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



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



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

District: Tirap

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

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	Vegetative	Soybean looper	<ul style="list-style-type: none"> ❖ Spraying of Quinalphos 25 EC 2ml/litre of water is advised, ❖ Monitor the crop against attack of insect pests, ❖ Make proper drainage in the crop field,
Rice	Nursery/transplantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyrifos 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 field	Sowing		<ul style="list-style-type: none"> • Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. • Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing. • Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
Pea	Seed development/ Maturity	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> ❖ Harvest mature crops ❖ 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	<ul style="list-style-type: none"> ❖ Harvest during clear/dry days ❖ If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLES			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
French Bean	Sowing		<ul style="list-style-type: none"> ❖ In present weather conditions, sowing of quality seeds may be done, ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Okra	Sowing		<ul style="list-style-type: none"> ❖ Sowing advocated during clear/dry days ❖ Procure quality seed from certified agency.
Potato	Vegetative stage/ Harvesting stage	Late blight/ Red ant	<ul style="list-style-type: none"> ❖ High time to harvest mature crops ❖ If already harvested, Store in a cool, well ventilated place/ do not wash before storing as dampness promotes early spoilage. ❖ Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves ❖ Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised
Ginger/ Turmeric	Maturity		<ul style="list-style-type: none"> ❖ Harvest the mature crop, ❖ Cure should be taken while harvest so that the

			rhizome is not damaged,
HORTICULTURAL CROPS			
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> • Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. • Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. • Cleaning & smearing of trunk base with Bordeaux paste • If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. • Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop • For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. • Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
Banana	All stages	Sigatoka Leaf spot	<ul style="list-style-type: none"> ❖ One sword sucker may be allowed after shooting (Flowering), ❖ Periodical removal of side suckers by cutting them above the ground level, scoop the core and pour 2 ml of kerosene in the core, ❖ Foliar spray of Propiconazole (e.g., Tilt) @ 1 ml per litre of water
Honey Bees			
			❖ Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	Stage	Disease	❖ Precautionary Practices to be followed
General <ul style="list-style-type: none"> ❖ 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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> ❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Poultry	All stages		<ul style="list-style-type: none"> ❖ Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. ❖ Day old chick-Maintain warmth by lighting. ❖ Deworming for gastrointestinal parasite
Goat	All stages		
Cattle	All stages	FMD	<ul style="list-style-type: none"> ❖ 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			

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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Upper Siang

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> ❖ Provide adequate drainage and avoid water stagnation near the base of the plants. ❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyrifos 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 field	Sowing		<ul style="list-style-type: none"> • Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. • Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing. • Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
Toria/ Mustard	Vegetative/ Flowering		❖ Provide proper drainage facilities for the toria grown in the WRC field to protect them against heavy rainfall.
VEGETABLES			
Cucurbits	Nursery/Sowing		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Potato	Maturity/ Harvesting	Late blight/ Red ant	<ul style="list-style-type: none"> ❖ Harvesting of mature crops during clear/dry days ❖ Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves ❖ Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall..
Ginger/ Turmeric	Maturity		<ul style="list-style-type: none"> ❖ Harvest the mature crop, ❖ Cure should be taken while harvest so that the rhizome is not damaged,
HORTICULTURAL CROPS			
Large cardamom	Sowing		❖ Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation.
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> • Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. • Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. • Cleaning & smearing of trunk base with Bordeaux paste • If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. • Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop • For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. • Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.
Kiwi	Flowering		❖ Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.

Apple	Flowering		<ul style="list-style-type: none"> ❖ 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	<ul style="list-style-type: none"> ❖ 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.
LIVESTOCKS			
Livestock	Stage	Disease	❖ Precautionary Practices to be followed
❖ General <ul style="list-style-type: none"> ❖ 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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> ❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		<ul style="list-style-type: none"> ❖ 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 coccidiosis.
Cattle	All stages	FMD	<ul style="list-style-type: none"> ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
Fishery			<ul style="list-style-type: none"> ❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Mithun		FMD	<ul style="list-style-type: none"> ❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: Upper Subansiri

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. • Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field. • Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Maize	Vegetative	Soybean looper	<ul style="list-style-type: none"> ❖ Spraying of Quinalphos 25 EC 2ml/litre of water is advised, ❖ Monitor the crop against attack of insect pests, ❖ Make proper drainage in the crop field,
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> ❖ Provide adequate drainage and avoid water stagnation near the base of the plants. ❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Jhum field	Sowing		<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> ❖ Provide adequate drainage ❖ If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLES			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Potato	Maturity/ Harvesting	Late blight/ Red ant	<ul style="list-style-type: none"> ❖ 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..
HORTICULTURAL CROPS			
Citrus	Flowering	Bark eating caterpillar/ Blackfly/ Mites	<ul style="list-style-type: none"> • About 50% eggs laid by the citrus blackfly hatch during 2nd half of April month. The nymphs and adults both suck cell sap from young leaves and twigs. Spray Monocrotophos 10 ml or Quinalphos 15 ml per liter os water with second spray after 15 days on clear/dry days or using stickers. • Against mites, spray Dicofol 1.8EC @ 15ml/liter of water during clear/dry weather. • Cleaning & smearing of trunk base with Bordeaux paste

			during clear/dry days. <ul style="list-style-type: none"> 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.
Apple	Flowering		<ul style="list-style-type: none"> ❖ For woody aphid-Wipe the stem with cloth soaked in mineral oil. ❖ In bearing trees give a spray of Bordeaux mixture (copper sulphate (2Kg)+quick lime (2kg) in 200litres of water) against canker and other diseases.
Kiwi	Flowering		❖ Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
Temperate fruits	After harvesting		❖ Training & pruning of the temperate crops (apple/pears/peach) is recommended
Honey Bees			
Honey bees			<ul style="list-style-type: none"> ❖ Provide sugar syrup near the box ❖ Add insulation and ventilation systems
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
General <ul style="list-style-type: none"> 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, 			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> ❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Poultry	All stages		<ul style="list-style-type: none"> ❖ 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 coccidiosis.
Cattle	All stages	FMD	<ul style="list-style-type: none"> ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
Mithun		FMD	<ul style="list-style-type: none"> ❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

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

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)



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

District: West Kameng

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> • Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. • Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyriphos 20% EC (2ml in 10 litres of water) solution before sowing. • Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field. • Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.
Jhum Rice	Land Preparation		<ul style="list-style-type: none"> ❖ Arrangement of quality seeds, ❖ Make structures to avoid runoff in the slope, ❖ ICAR Basar recommends procuring quality seeds of Bhalum1,2,3 & 4 in Jhum apart from the local varieties. ❖ Sowing to be done on clear/dry days ❖ Intercropping of leguminous crops (cowpea /frenchbean /soybean) at 2-3 rows across the slope in jhum field at desirable interval with rice advocated.
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> ❖ Provide adequate drainage and avoid water stagnation near the base of the plants. ❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Toria/ Mustard	Maturity	Aphids	<ul style="list-style-type: none"> ❖ Provide adequate drainage ❖ If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLES			
Cucurbits	Nursery/Sowing		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing. ❖ Transplant during clear/dry days
Potato	Vegetative stage/ Harvesting stage	Late blight/ Red ant	<ul style="list-style-type: none"> ❖ Avoid harvesting during current weather ❖ Regularly monitor against the disease symptoms. Prominent symptoms include small, dark, circular to irregular shaped lesion in the leaves ❖ Prophylactic spraying of Mancozeb @ 2 gram per 4 litres of water is advised using stickers in case of rainfall..
HORTICULTURAL CROPS			
Kiwi	Flowering		<ul style="list-style-type: none"> ❖ Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
Apple	Flowering		<ul style="list-style-type: none"> ❖ 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	<ul style="list-style-type: none"> ❖ Cover newly emerged bunches with locally available sack to protect from cold/frost
LIVESTOCKS			
Livestock	Stage	Disease	❖ Precautionary Practices to be followed
❖ 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,			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the	<ul style="list-style-type: none"> ❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to

		mouth and foot.) Swine Fever	break- down toxins from some feeds. <ul style="list-style-type: none"> ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			<ul style="list-style-type: none"> ❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
Yak	All stages		<ul style="list-style-type: none"> ❖ Feeding of concentrate feed along with mineral mixture and salt. ❖ Hay feeding is recommended.
Poultry	All stages		<ul style="list-style-type: none"> ❖ Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. ❖ Day old chick-Maintain warmth by lighting, ❖ In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultry shed during night, ❖ Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Cattle	All stages	FMD	<ul style="list-style-type: none"> ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Heavy mortality in cloven footed animals has been reported. ❖ Supportive treatment of infected animals under supervision of veterinary department officials, ❖ Avoid mixing of infected and healthy animals, ❖ Keep infected animals separated from the healthy ones, ❖ Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) ❖ Provide feed supplements
Mithun		FMD	<ul style="list-style-type: none"> ❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.

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

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Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका Agro-met Advisory Bulletin

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

ग्रामीण कृषि मौसम सेवा



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



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

District: West Siang

No: AMFU-Basar/2018/34

Dated: Fri, 27th April, 2018



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

Weather summary of the previous week	Weather forecast valid up to 2 nd May 2018
Basar: Rainfall =0.0 mm. T. Max: 27.8°C, T. Min: 12.5°C, RH: 51-96%, Wind Speed: 4-6 kmph, Wind Direction: NNW & NNE	Partly/Mostly cloudy with possibility of Moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 29°C and 19-20°C respectively. Expected morning and evening relative humidity will be 66-81% and 36-66% respectively. Wind direction is mainly S & SSW with speed range of 3-8 kmph.
Warning:	• Nil

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> ❖ Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. ❖ Wet seed treatment for 12hrs. in Carbendazim 50% WP (1g/litre of water) & Chlorpyrifos 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.
Maize	Vegetative	Soybean looper	<ul style="list-style-type: none"> ❖ Spraying of Quinalphos 25 EC 2ml/litre of water is advised, ❖ Monitor the crop against attack of insect pests, ❖ Make proper drainage in the crop field,
Jhum field	Sowing		<ul style="list-style-type: none"> ❖ Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. ❖ Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing. ❖ Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> ❖ Provide adequate drainage and avoid water stagnation near the base of the plants. ❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.
Toria/ Mustard	Maturity	Aphids	<ul style="list-style-type: none"> ❖ Provide adequate drainage ❖ If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.
VEGETABLES			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> ❖ Prepare nursery in shaded area ❖ Procure quality seed from certified agency. ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
French Bean	Sowing		<ul style="list-style-type: none"> ❖ Sowing can be done in raised bunds ❖ Treat the seeds with Imidacloprid 17SL @1ml/litre/ kilogram seed before sowing.
Okra	Sowing		<ul style="list-style-type: none"> ❖ Procure quality seed from certified agency. ❖ Sowing during clear dry days in raised bunds ❖ Provide proper drainage to already sown crops
Potato	Maturity/ Harvesting		<ul style="list-style-type: none"> ❖ Harvesting can be done in clear/dry days ❖ Proper sun-drying before storage.
Cabbage/ Cauliflower	Harvesting		<ul style="list-style-type: none"> ❖ Harvest mature crop. ❖ Constantly monitor against attack of insects pests/mole.
Ginger/ Turmeric	Maturity		<ul style="list-style-type: none"> ❖ Harvest the mature crop, ❖ Cure should be taken while harvest so that the rhizome is not damaged, ❖
HORTICULTURAL CROPS			

Citrus	Flowering	Bark eating caterpillar/ Blackfly/ Mites	<ul style="list-style-type: none"> • About 50% eggs laid by the citrus blackfly hatch during 2nd half of April month. The nymphs and adults both suck cell sap from young leaves and twigs. Spray Monocrotophos 10 ml or Quinalphos 15 ml per liter os water with second spray after 15 days on clear/dry days or using stickers. • Against mites, spray Dicofol 1.8EC @ 15ml/liter of water during clear/dry weather. • Cleaning & smearing of trunk base with Bordeaux paste during clear/dry days. • Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. • Cleaning & smearing of trunk base with Bordeaux paste • If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. • Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop • For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.
Kiwi	Flowering		❖ Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.
Apple	Flowering		❖ For woody aphid-Wipe the stem with cloth soaked in mineral oil. ❖ In bearing trees give a spray of Bordeaux mixture (copper sulphate (2Kg)+quick lime (2kg) in 200litres of water) against canker and other diseases.
Large cardamom	Sowing		❖ Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation. ❖ Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.
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
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.
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 coccidiosis.
Cattle	All stages	FMD	❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide feed supplements
Mithun		FMD	❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.

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