कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: East Kameng

No: 56/2017/Fri **Dated: 14th July, 2017**

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall = 17.5 mm	**Mostly sunny with possibility of light rainfall in few places.** Daily maximum and minimum temperature for the following period is predicted to be 22-24°C and 16-17°C respectively. Expected morning and evening relative humidity will be 87-97% and 49-62% respectively. Expected wind direction is mainly SE with speed range of 2-4 kmph.
Warning:	• **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**
- **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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • **If already sown, maintain proper drainage**
VEGETABLES			
Pre-summer vegetables	Seedling/ vegetative	Aphids in Cucurbitaceous crops/ Brinjal Shoot & Fruit borer	• Provision of drainage to remove excess water followed by earthing up in vegetables. • In cucurbitaceous crops like bottle gourd, cucumber, ridge gourd etc, earthing up to be done followed by manuring; and stacking should be followed and trained on a bower system made of bamboo + sticks. • Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer.
HORTICULTURAL CROPS			
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like carbendazim @2g/lit water.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water** • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top

			with narrow leaves should be selected for planting at 3m x 3m spacing.
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Orchards			• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. • Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
Agroforestry			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Fishery			• Best time to prepare the culture pond like cleaning aquatic weeds
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • 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

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: East Siang

No: 56/2017/Fri **Dated: 14th July, 2017**

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

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall: 24.0 mm; T. Max: 34.0°C; T. Min: 22.0°C; RH: 76-96%	**Fair/sunny weather with possibility of light/moderate rainfall in few isolated places.** Daily maximum and minimum temperature for the following period is predicted to be 35-38°C and 24-26°C respectively. Expected morning and evening relative humidity will be 85-92% and 43-69% respectively. Expected wind direction is mainly NNE and NW with speed range of 2-3 kmph.
Warning:	• **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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water** • **Prune all canker affected branches and leaves and burn**

			them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like carbendazim @2g/lit water.
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Honey Bees			
Honey bees			• On prolong rain, provide sugar syrup
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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(Integrated Agro-Meteorological Advisory Services)

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

District: Kurung Kumey

No: 56/2017/Fri **Dated: 14th July, 2017**

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

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Past weather summary not available	**Mostly sunny with possibility of light/moderate rainfall in few isolated places.** Daily maximum and minimum temperature for the following period is predicted to be 26-27°C and 16°C respectively. Expected morning and evening relative humidity will be 87-91% and 46-64% respectively. Wind direction is mainly W & WSW with speed range of 2-4 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 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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • **If already sown, maintain proper drainage**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like carbendazim @2g/lit water.
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.

Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water** • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Honey Bees			
			• Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided.
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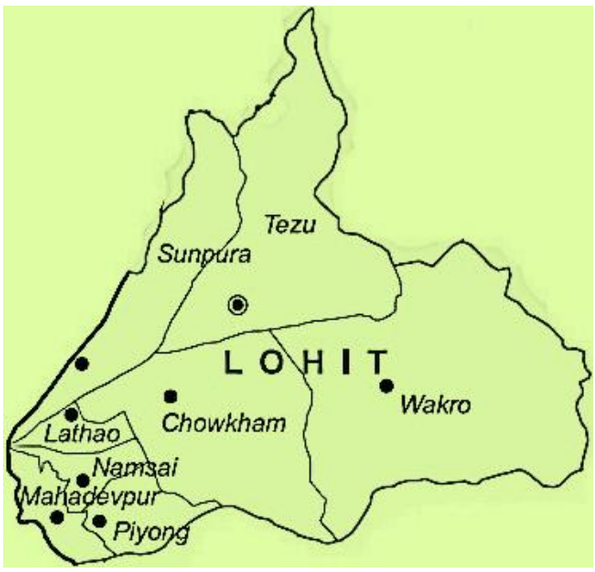
GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: Lohit

No: 56/2017/Fri **Dated: 14th July, 2017**



Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall = 4.2 mm	**Mostly sunny with possibility of light/moderate rainfall in few places.** Daily maximum and minimum temperature for the following period is predicted to be 26-28^{o}C and 18-19^{o}C respectively. Expected morning and evening relative humidity will be 85-93% and 46-60% respectively. Wind direction is mainly E with speed range of 3-4 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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
Maize	Multiple stages		• If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.**

			• **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water** • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Honey Bees			
Honey bees			• Provide sugar syrup near the box • Add insulation and ventilation systems
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
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: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: Lower Dibang Valley

No: 56/2017/Fri **Dated: 14th July, 2017**

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall = 66.6 mm	**Mostly sunny with possibility of light/moderate rainfall in few places.** Daily maximum and minimum temperature for the following period is predicted to be 24-27°C and 15-16°C respectively. Expected morning and evening relative humidity will be 83-90% and 39-55% respectively. Wind direction is variable with speed range of 2-4 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			
Pulses/Ground nut/Soybean	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Jhum field	Tillering	**True Armyworm (Heavy infestation all over the state)**	• **Spray Dichlorvos 76 EC@3ml/lit water along with sticker @ 1ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.**
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • **If already sown, maintain proper drainage**
VEGETABLES			
Pre-summer vegetables	Seedling/ vegetative	Aphids in Cucurbitaceous crops/ Brinjal Shoot & Fruit borer	• **If damaged by heavy rainfall, Okra can be sown again** • Provision of drainage to remove excess water followed by earthing up in vegetables. • In cucurbitaceous crops like bottle gourd, cucumber, ridge gourd etc, earthing up to be done followed by manuring; and stacking should be followed and trained on a bower system made of bamboo + sticks. • Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer.
HORTICULTURAL CROPS			
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water** • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like

			carbendazim @2g/lit water.
Orchards			• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. • Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
Honey Bees			
Honey bees			• Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision • Separate sick animals • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
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: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: Lower Subansiri

No: 56/2017/Fri **Dated: 14th July, 2017**

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall = NA (Ziro)	**Mostly sunny with possibility of light/moderate rainfall in few isolated places.** Daily maximum and minimum temperature for the following period is predicted to be 25-27°C and 17-19°C respectively. Expected morning and evening relative humidity will be 90-96% and 49-65% respectively. Wind direction is mainly WSW & S 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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water** • **Prune all canker affected branches and leaves and burn**

			them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like carbendazim @2g/lit water.
Orchards			• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. • Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
Agroforestry			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
Honey Bees			
Honey bees			• Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • **1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD** • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: Papum Pare

No: 56/2017/Fri **Dated: 14th July, 2017**

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall: 51.2 mm; T. Max: 36.0°C; T. Min: 20.0°C; RH: 72-92%	**Mostly sunny with possibility of light/moderate rainfall in few isolated places.** Daily maximum and minimum temperature for the following period is predicted to be 33-35°C and 24-27°C respectively. Expected morning and evening relative humidity will be 85-91% and 51-56% respectively. Expected wind direction is variable with speed range of 2 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/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
Jhum field	Tillering	True Armyworm, Thrips and Stem borer	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay.
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic Acid (GA) with 100 gms Carbendazim and 1 kg Urea**

			mixed in 100 liters of water • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like carbendazim @2g/lit water.
Orchards			• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. • Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
Honey Bees			
Honey bees			• Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision • Separate sick animals • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • 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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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: Tawang

No: 56/2017/Fri **Dated: 14th July, 2017**

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall = NA	**Mostly sunny with possibility of light rainfall in few places.** Daily maximum and minimum temperature for the following period is predicted to be 18-19°C and 15-17°C respectively. Expected morning and evening relative humidity will be 83-92% and 56-62% respectively. Wind direction is mainly SE & SSE with probable speed range of 2-6 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**
- **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/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
Maize	Multiple stages		• If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • **If already sown, maintain proper drainage**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water** • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like carbendazim @2g/lit water.
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation

			• Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Orchards			• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. • Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
Honey Bees			
Honey bees			• Provide sugar syrup near the box • Add insulation and ventilation systems
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • **1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD** • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • 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: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: Tirap

No: 56/2017/Fri **Dated: 14th July, 2017**

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall = 18.6 mm	**Mostly sunny with possibility of light rainfall in few places.** Daily maximum and minimum temperature for the following period is predicted to be 36°C and 25-26°C respectively. Expected morning and evening relative humidity will be 81-95% and 48-67% respectively. Wind direction is mainly S 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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
Maize	Multiple stages		• If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • **If already sown, maintain proper drainage**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like carbendazim @2g/lit water.
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm.

			• Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water** • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Orchards			• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. • Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
Honey Bees			
			• Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • **1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD** • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: Upper Siang

No: 56/2017/Fri **Dated: 14th July, 2017**

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall = 4.8 mm	**Mostly sunny with possibility of light/moderate rainfall in few isolated places.** Daily maximum and minimum temperature for the following period is predicted to be 22-25°C and 14-15°C respectively. Expected morning and evening relative humidity will be 81-89% and 41-57% respectively. Wind direction is variable with speed range of 2 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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • **If already sown, maintain proper drainage**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic**

			Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Honey Bees			
Honey bees			• Box must be covered with straw/dry leaves to provide warmth • Provide sugar syrup
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision • Separate sick animals • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

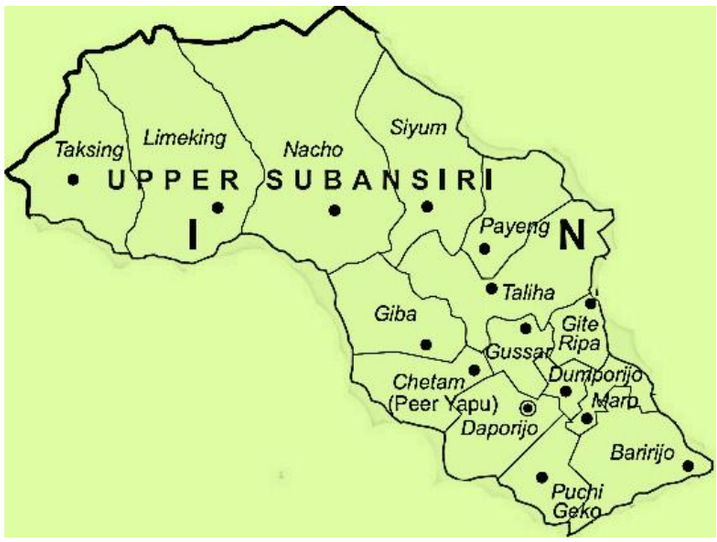
GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: Upper Subansiri

No: 56/2017/Fri **Dated: 14th July, 2017**



Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Daporijo: 20.8 mm	**Mostly sunny with possibility of light rainfall in few places.** Daily maximum and minimum temperature for the following period is predicted to be 24-27°C and 16-18°C respectively. Expected morning and evening relative humidity will be 89-94% and 53-63% respectively. Expected wind direction is variable with speed range of 2-3 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**
- **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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like carbendazim @2g/lit water.
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic**

			Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Orchards			• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. • Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
Honey Bees			
Honey bees			• Provide sugar syrup near the box • Add insulation and ventilation systems
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • **1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD** • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • 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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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: West Kameng

No: 56/2017/Fri **Dated: 14th July, 2017**

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall = Bomdila: NA; Bhalukpong: 8.6 mm	**Partly cloudy with possibility of light rainfall in few places.** Daily maximum and minimum temperature for the following period is predicted to be 21-23°C and 15-16°C respectively. Expected morning and evening relative humidity will be 85-95% and 53-63% respectively. Wind direction is mainly E with speed range of 2-5 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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • **If already sown, maintain proper drainage**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic**

			Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Orchards			• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. • Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
Apple	Vegetative	Wooly aphids	• Swab the stem with mineral oil against wooly aphid.
Honey Bees			
Honey bees			• Provide sugar syrup near the box • Add insulation and ventilation systems
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • **1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD** • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department
Contact: - 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: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: West Siang

No: 56/2017/Fri **Dated: 14th July, 2017**

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

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Basar: Rainfall = 0.0 mm. T. Max: 32.7°C, T. Min: 19.7°C, RH: 59-91%, Wind Speed: 3-6 kmph, Wind Direction: variable	**Mostly sunny with possibility of light rainfall in few places.** Daily maximum and minimum temperature for the following period is predicted to be 33-35°C and 23-25°C respectively. Expected morning and evening relative humidity will be 88-93% and 49-65% respectively. Wind direction is variable with speed range of 2 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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • **If already sown, maintain proper drainage**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic**

			Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like carbendazim @2g/lit water.
Orchards			• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. • Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
Honey Bees			
Honey bees			• Box must be covered with straw/dry leaves to provide warmth • Provide sugar syrup
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • **1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD** • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department
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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

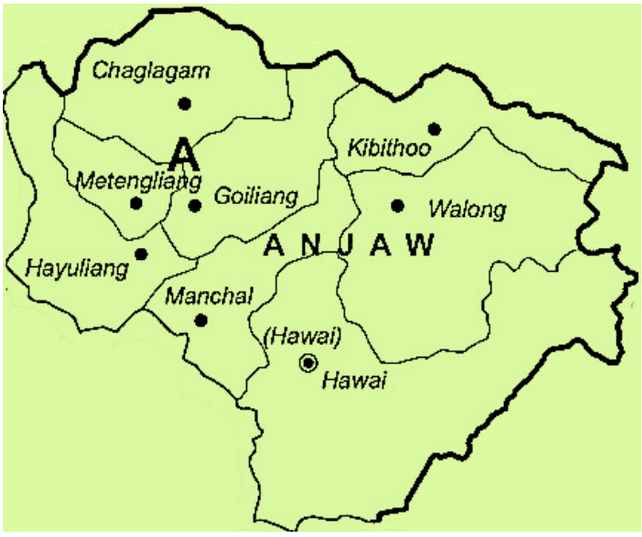
GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: Anjaw

No: 56/2017/Fri **Dated: 14th July, 2017**



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

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
No weather summary available	**Mostly sunny with possibility of light/moderate rainfall in few places.** Daily maximum and minimum temperature for the following period is predicted to be 29-31°C and 20-21°C respectively. Expected morning and evening relative humidity will be 88-93% and 46-52% respectively. Wind direction is mainly ENE & E at a speed range of 3-4 kmph.
Warning:	• **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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water** • **Prune all canker affected branches and leaves and burn**

			them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like carbendazim @2g/lit water.
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Fishery	Fingerlings		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. 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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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: Changlang

NoNo: 56/2017/Fri **Dated: 14th July, 2017**

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

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall = Changlang: 20.0 mm Miao: 19.4 mm	**Mostly sunny with possibility of light/moderate rainfall in few places.** Daily maximum and minimum temperature for the following period is predicted to be 30-32°C and 22°C respectively. Expected morning and evening relative humidity will be 82-93% and 48-64% respectively. Wind direction is mainly E with speed range of 2-5 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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
Finger millet	Sowing		• Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • **If already sown, maintain proper drainage**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic**

			Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Large Cardamom	Flowering stage	Chirkey Disease	• Remove diseased part & keep inflorescence clean. • Need based spray of broad spectrum fungicide like carbendazim @2g/lit water.
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Orchards			• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. • Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards
Honey Bees			
Honey bees			• Box must be covered with straw/dry leaves to provide warmth • Provide sugar syrup
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
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: 15th to 18th July 2017)

ग्रामीण कृषि मौसम सेवा

GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

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

District: Dibang Valley

No: 56/2017/Fri **Dated: 14th July, 2017**

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

Weather summery of the previous week	Weather forecast valid up to 19th July 2017
Rainfall = NA (Anini)	**Mostly sunny with possibility of light/moderate rainfall in few places.** Daily maximum and minimum temperature for the following period is predicted to be 23-25°C and 14-16°C respectively. Expected morning and evening relative humidity will be 90-94% and 42-56% respectively. Wind direction is variable with speed range of 2-3 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			
Jhum field	Tillering	**True Armyworm, Thrips and Stem borer**	• **Spray Dichlorvos 76 EC@3ml/lit water** • **Keep poison baits (Rice bran 50kg + Jaggery 5kg + Monocrotophos 36 SL 625ml + required quantity of water) here and there in field.** • **Spray Triazophos 40 EC@4ml/lit water against thrips & stem borer.**
Pulses/Ground nut	Vegetative stage	Epicauta Bettle	• Complete earthing up before 45-50 days after sowing. • Spray azadirachtin 0.15 EC@ 1 ml/lit against Epicauta settle in soybean • Gap filling is recommended in the early sown crop • Manual weeding in greengram/blackgram
Rice	Nursery/transplanting/Tillering stage		• Before transplanting, follow seedling root-dip treatment in chlorpyriphos 20 EC@ 2ml/10 lit for 12 hrs. • **Need-based application of carbendazim@2gm/lit with sticker @2ml/lit to protect seedling from diseases** • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. • Maintain proper drainage for nursery plot of rice. • **Apply recommended dose of NPK in WRC at the time of transplanting or liquid formulation of bio-NPK @ 2-3 ml/lit water**
VEGETABLES			
Tomato	Fruiting		• Removing sideshoots is an important job which prevents the fruits being shaded by leaves. • As temperatures rise, keep watering your plants, but avoid watering the leaves excessively that may lead to disease infestation.
Summer Vegetables	Multiple stages		• Dust ash powder in cucurbits • Use pheromone traps/light traps against brinjal shoot and fruit borer. • New nursery should be raised inside well covered structure with a raised bed to protect against continuous rain/shower.
Ginger/turmeric	Vegetative stage	Soft Rot	• Cultural practice like weeding/earthing up is recommended followed by basal dose of fertilizers • For management of soft rot in ginger: Need based drencing of Metalaxyl-8% + Mancozeb 64% WP @ 2.5 g per lit of water.
HORTICULTURAL CROPS			
Citrus	Marble/ Seedling	Citrus Canker	• **Avoid water stagnation near the tree trunk** • **Remove water shoots and any other shoots below the budded area.** • **To check fruit drop, spray with 1.5g 2,4-D or Gibberelic Acid (GA) with 100 gms Carbendazim and 1 kg Urea mixed in 100 liters of water** • **Prune all canker affected branches and leaves and burn them. Spray copper oxychloride (180 gms) with Streptocycline (6 gms) per 60 liters water.**
Ginger/Turmeric	Seedling		• Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done
Pineapple	Active vegetative		• Remove excess suckers and spray NAA@100ppm to increase fruit size and improve quality.
Banana	Bunching & planting		• Desuckering of banana to be done leaving one suckers per plant to maintain the health of mother plant. • Remove the male flower in banana bunches to attain better finger/fruit size. • Remove excess sucker from Banana in mother plant and give support in banana bunches to protect falling due to

			heavy weight or storm. • Sword suckers with stout base, tapering towards the top with narrow leaves should be selected for planting at 3m x 3m spacing.
Apple	Vegetative	Wooly aphids	• Swab the stem with mineral oil against wooly aphid.
Honey Bees			
Honey bees			• In case of rain provide sugar syrup
LIVESTOCKS			
Livestock	**Stage**	**Disease**	**Precautionary Practices to be followed**
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	• Keep the houses dry and clean. • 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD • Reduce concentrate diet up to 5% • Provide adequate potable water
Poultry	All stages		• Proper ventilation of shed • Provide vitamin complex and glucose in water • Follow 'All in All out' system of rearing and do not rear birds of different age groups together. • Avoid overcrowding. • Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. • Provide adequate clean drinking water+electrolyte and multi-vitamins • Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. • Remove wet litter
Cattle	All stages	FMD	• Provide UMB/Molases if possible in the feed • Provide 10-30 ml of vitamin B-Complex in feed • **1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision** • **Separate sick animals** • The animal should be washed with lukewarm water added with little potash ($KMnO_4$) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short.
Fishery	**Fingerlings**		• **Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings**
Mithun		FMD	• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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