

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 17th to 20th June 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: 48/2017/Fri

Dated: 16th June, 2017



| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--------------------------------------|--|
| Rainfall = 0.0 mm (Roing) | Mostly cloudy with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 24-27°C and 18-21°C respectively. Expected morning and evening relative humidity will be 92-98% and 52-80% respectively. Wind direction is mainly E & ENE with speed range of 2-4 kmph. |
| Warning: | <ul style="list-style-type: none">• Heavy to very heavy rainfall likely on 16th June |

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 | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| <i>Jhum</i> field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Affected leaves, branch should be pruned and burnt. • Spray copper oxychloride 200 gm with streptocycline 6 gm in 60 lits of water before onset of monsoon. Spray 3-4 times at interval of 30 days (use stickers) • To check fruit drop spray with 1.5 gms 2,4-D or Gibberelic acid (GA) (use stickers) • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Orchards | | | <ul style="list-style-type: none"> • 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 |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |
| Honey Bees | | | |
| Honey bees | | | <ul style="list-style-type: none"> • Box must be covered with straw/dry leaves to provide warmth |

LIVESTOCKS

| Livestock | Stage | Disease | Precautionary Practices to be followed |
|-----------|-------------|---|---|
| Pigs | All stages | FMD (high fever and appearance of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> • Provide UMB/Molasses 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 (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short. |
| Fishery | Fingerlings | | <ul style="list-style-type: none"> • 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

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: 17th to 20th June 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: 48/2017/Fri

Dated: 16th June, 2017



| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--------------------------------------|--|
| Rainfall = NA (Ziro) | Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 26-29°C and 18-21°C respectively. Expected morning and evening relative humidity will be 96-97% and 75-90% respectively. Wind direction is variable with speed range of 2-3 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

Weather Based Agro-meteorological Advisories Bulletin

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

| Crop | Stage | Pest/Disease | Precautionary Practices to be followed |
|----------------------------|---------------------------------------|--|--|
| FIELD CROPS | | | |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Pulses | Vegetative | | <ul style="list-style-type: none"> • Apply biosulphur @2ml/lit water to enhance yield on clear day |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. |
| VEGETABLES | | | |
| Pre-summer vegetables | Seedling/vegetative | Aphids in Cucurbitaceous crops/ Brinjal Shoot & Fruit borer | <ul style="list-style-type: none"> • 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 | | | |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done |
| Citrus | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Affected leaves, branch should be pruned and burnt. • Spray copper oxychloride 200 gm with streptocycline 6 gm in 60 lits of water before onset of monsoon. Spray 3-4 times at interval of 30 days. (use stickers) • To check fruit drop spray with 1.5 gms 2,4-D or Gibberelic acid (GA) (use stickers) • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Orchards | | | <ul style="list-style-type: none"> • 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 |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |

| Agroforestry | | | |
|--|-------------|---|---|
| Toko palm | Nursery | | Filling of nursery polybags for raising of takopalm seedlings |
| Honey Bees | | | |
| Honey bees | | | <ul style="list-style-type: none"> Box must be covered with straw/dry leaves to provide warmth |
| LIVESTOCKS | | | |
| Livestock | Stage | Disease | Precautionary Practices to be followed |
| Pigs | All stages | FMD (high fever and appearance of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none"> 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 | | <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> 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 (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short. |
| Fishery | Fingerlings | | <ul style="list-style-type: none"> Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings |
| Mithun | | FMD | <ul style="list-style-type: none"> Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. |
| Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247 | | | |

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

District: Papum Pare

No: 48/2017/Fri

Dated: 16th June, 2017



| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--|--|
| Rainfall: 86.9 mm; T. Max: 33.0°C; T. Min: 22.0°C ; RH: 81-98% | Mostly cloudy with possibility of light to rather heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 28-32°C and 22-24°C respectively. Expected morning and evening relative humidity will be 96-99% and 61-95% respectively. Expected wind direction is mainly NE and ENE with speed range of 2-3 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

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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 | | | |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. |
| VEGETABLES | | | |
| Pre-summer vegetables | Seedling/vegetative | Aphids in Cucurbitaceous crops/ Brinjal Shoot & Fruit borer | <ul style="list-style-type: none"> • 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 | | | |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done |
| Citrus | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Affected leaves, branch should be pruned and burnt. • Spray copper oxychloride 200 gm with streptocycline 6 gm in 60 lits of water before onset of monsoon. Spray 3-4 times at interval of 30 days. (use stickers) • To check fruit drop spray with 1.5 gms 2,4-D or Gibberelic acid (GA) (use stickers) • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Orchards | | | <ul style="list-style-type: none"> • 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 |
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| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |
| Honey Bees | | | |
| Honey bees | | | <ul style="list-style-type: none"> • Box must be covered with straw/dry leaves to provide warmth |
| LIVESTOCKS | | | |
| Livestock | Stage | Disease | Precautionary Practices to be followed |

| Fishery | Fingerlings | | <ul style="list-style-type: none"> • 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.) | <ul style="list-style-type: none"> • 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 |
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Arunachal Pradesh Centre, Basar-791101

District: Tawang

No: 48/2017/Fri

Dated: 16th June, 2017



| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--------------------------------------|--|
| Rainfall = NA | Mostly cloudy with possibility of light/moderate rainfall,. Daily maximum and minimum temperature for the following period is predicted to be 18-21°C and 10-12°C respectively. Expected morning and evening relative humidity will be 89-93% and 63-78% respectively. Wind direction is variable with probable speed range of 2-4 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

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 | | | |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophos@2ml/lit water in young seedlings. |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | | | |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • 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 | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Citrus | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Affected leaves, branch should be pruned and burnt. • Spray copper oxychloride 200 gm with streptocycline 6 gm in 60 lits of water before onset of monsoon. Spray 3-4 times at interval of 30 days. • To check fruit drop spray with 1.5 gms 2,4-D or Gibberelic acid (GA) • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Orchards | | | <ul style="list-style-type: none"> • 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 |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |
| Honey Bees | | | |
| Honey bees | | | <ul style="list-style-type: none"> • Provide sugar syrup near the box • Add insulation and ventilation systems |
| LIVESTOCKS | | | |
| Livestock | Stage | Disease | Precautionary Practices to be followed |

| | | | |
|---|------------|---|---|
| Pigs | All stages | FMD (high fever and appearance of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> • 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 (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short. |
| Mithun | | FMD | <ul style="list-style-type: none"> • Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided. |
| Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247 | | | |

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

**Agrometeorological Field Unit
ICAR, BASAR**

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 17th to 20th June 2017)

ग्रामीण कृषि मौसम सेवा



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

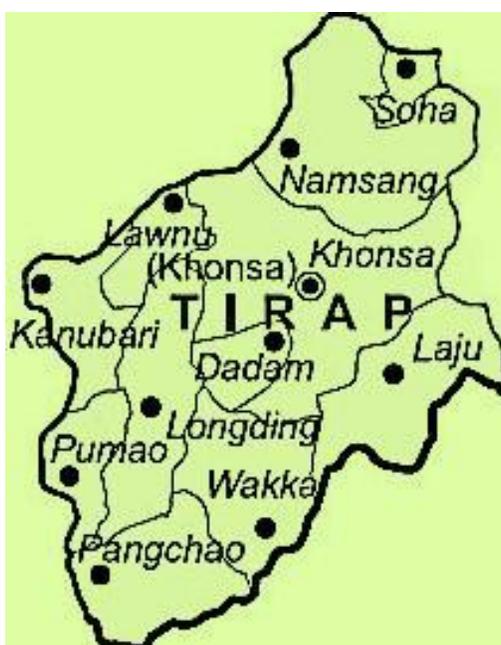


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Tirap

No: 48/2017/Fri

Dated: 16th June, 2017



| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--------------------------------------|--|
| Rainfall = NA (Deomali) | Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 28-29°C and 22-26°C respectively. Expected morning and evening relative humidity will be 97-99% and 75-97% respectively. Wind direction is variable with speed range of 2 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

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 | | | |
|-----------------------|---------------------------------------|---|--|
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • 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 | <p>Aphids in Cucurbitaceous crops/ Brinjal Shoot & Fruit borer</p> | <ul style="list-style-type: none"> • 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 | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Orchards | | | <ul style="list-style-type: none"> • 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 |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |
| Honey Bees | | | |
| | | | <ul style="list-style-type: none"> • Box must be covered with straw/dry leaves to provide warmth |
| LIVESTOCKS | | | |
| Livestock | Stage | Disease | Precautionary Practices to be followed |
| Pigs | All stages | FMD (high fever and appearance of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none"> • 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% |

| | | | |
|---------|-------------|-----|---|
| | | | <ul style="list-style-type: none"> • Provide adequate potable water |
| Poultry | All stages | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> • 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 (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short. |
| Fishery | Fingerlings | | <ul style="list-style-type: none"> • Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings |
| Mithun | | FMD | <ul style="list-style-type: none"> • Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided. |

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

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**Agrometeorological Field Unit
ICAR, BASAR**

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 17th to 20th June 2017)

ग्रामीण कृषि मौसम सेवा



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

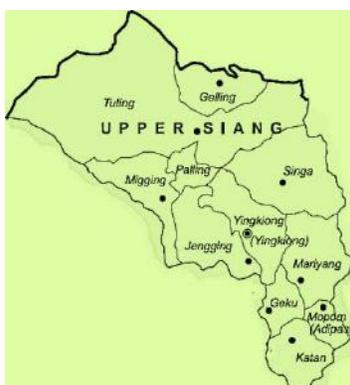


ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Upper Siang

No: 48/2017/Fri

Dated: 16th June, 2017



| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--------------------------------------|--|
| Rainfall = NA (Tuting) | Generally partly cloudy with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 22-25°C and 17-20°C respectively. Expected morning and evening relative humidity will be 88-92% and 59-74% respectively. Wind direction is variable with speed range of 2-3 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

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 | | | |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | | | |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done |
| Citrus | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Affected leaves, branch should be pruned and burnt. • Spray copper oxychloride 200 gm with streptocycline 6 gm in 60 lits of water before onset of monsoon. Spray 3-4 times at interval of 30 days. (Use stickers) • To check fruit drop spray with 1.5 gms 2,4-D or Gibberelic acid (GA) (use stickers) • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Orchards | | | <ul style="list-style-type: none"> • 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 | | | <ul style="list-style-type: none"> • Box must be covered with straw/dry leaves to provide warmth • Provide sugar syrup |

LIVESTOCKS

| Livestock | Stage | Disease | Precautionary Practices to be followed |
|-----------|-------------|---|---|
| Pigs | All stages | FMD (high fever and appearance of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> • Provide UMB/Molasses 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 (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short. |
| Fishery | Fingerlings | | <ul style="list-style-type: none"> • Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings |
| Mithun | | FMD | <ul style="list-style-type: none"> • Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided. |

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

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**Agrometeorological Field Unit
ICAR. BASAR**

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 17th to 20th June 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: 48/2017/Fri

Dated: 16th June, 2017



| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|---|---|
| Rainfall = NA (Puchi Geko); Daporijo: 33.0 mm | Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 23-25°C and 16-19°C respectively. Expected morning and evening relative humidity will be 95-96% and 74-89% respectively. Expected wind direction variable with speed range of 2 kmph. |
| Warning | • Heavy to very heavy rainfall likely on 16th June |

Weather Based Agro-meteorological Advisories Bulletin

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

| Crop | Stage | Pest/Disease | Precautionary Practices to be followed |
|----------------------------|---------------------------------------|---|---|
| FIELD CROPS | | | |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • If already sown, maintain proper drainage |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| VEGETABLES | | | |
| Pre-summer vegetables | Seedling/vegetative | | <ul style="list-style-type: none"> • 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. • Seed treatment: Before sowing treat seed with trichoderma viridi1% WP @ 10g/kg seed. |
| HORTICULTURAL CROPS | | | |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Citrus | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Orchards | | | <ul style="list-style-type: none"> • 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 | | | <ul style="list-style-type: none"> • Provide sugar syrup near the box • Add insulation and ventilation systems |
| LIVESTOCKS | | | |
| Livestock | Stage | Disease | Precautionary Practices to be followed |
| Fishery | Fingerlings | | <ul style="list-style-type: none"> • 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.) | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> • 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 (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short. |
| Mithun | | FMD | <ul style="list-style-type: none"> • Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided. |
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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 17th to 20th June 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: 48/2017/Fri

Dated: 16th June, 2017



| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--|---|
| Rainfall = Bomdila: NA; Bhalukpong: 9.4 mm | Mostly cloudy with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 20-22°C and 13-15°C respectively. Expected morning and evening relative humidity will be 92-97% and 63-82% respectively. Wind direction is variable with speed range of 2-5 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

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 | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 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. • Seed treatment: Before sowing treat seed with trichoderma viridi1% WP @ 10g/kg seed. |
| HORTICULTURAL CROPS | | | |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Citrus | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Orchards | | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Swab the stem with mineral oil against wooly aphid. |
| Honey Bees | | | |
| Honey bees | | | <ul style="list-style-type: none"> • Provide sugar syrup near the box • Add insulation and ventilation systems |
| LIVESTOCKS | | | |
| Livestock | Stage | Disease | Precautionary Practices to be followed |
| Fishery | Fingerlings | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 |

| | | | |
|---|------------|------------------|---|
| | | mouth and foot.) | <p>FMD</p> <ul style="list-style-type: none"> • Reduce concentrate diet up to 5% • Provide adequate potable water |
| Poultry | All stages | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> • 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 (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short. |
| Mithun | | FMD | <ul style="list-style-type: none"> • Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided. |
| Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247 | | | |

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: 17th to 20th June 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: 48/2017/Fri

Dated: 16th June, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|---|---|
| Basar: Rainfall = 32.8 mm. T. Max: 25.8°C, T. Min: 20.8°C, RH: 87-92%, Wind Speed: 3-4 kmph, Wind Direction: SW & WSW Along: 2.0 | Mostly cloudy with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 27-29°C and 21-23°C respectively. Expected morning and evening relative humidity will be 95-96% and 74-90% respectively. Wind direction is variable with speed range of 2 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

| Crop | Stage | Pest/Disease | Precautionary Practices to be followed |
|----------------------------|---------------------------------------|--|--|
| FIELD CROPS | | | |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Affected leaves, branch should be pruned and burnt. • Spray copper oxychloride 200 gm with streptocycline 6 gm in 60 lits of water before onset of monsoon. Spray 3-4 times at interval of 30 days. (Use stickers) • To check fruit drop spray with 1.5 gms 2,4-D or Gibberelic acid (GA) (Use stickers) • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Orchards | | | <ul style="list-style-type: none"> • 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 |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |
| Honey Bees | | | |
| Honey bees | | | <ul style="list-style-type: none"> • Box must be covered with straw/dry leaves to provide warmth |

| | | | <ul style="list-style-type: none"> • Provide sugar syrup |
|---|--------------|---|---|
| LIVESTOCKS | | | |
| Livestock | Stage | Disease | Precautionary Practices to be followed |
| Fishery | Fingerlings | | <ul style="list-style-type: none"> • 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.) | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> • 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 (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short. |
| Mithun | | FMD | <ul style="list-style-type: none"> • Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided. |
| Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247 | | | |

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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 17th to 20th June 2017)

ग्रामीण कृषि मौसम सेवा



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

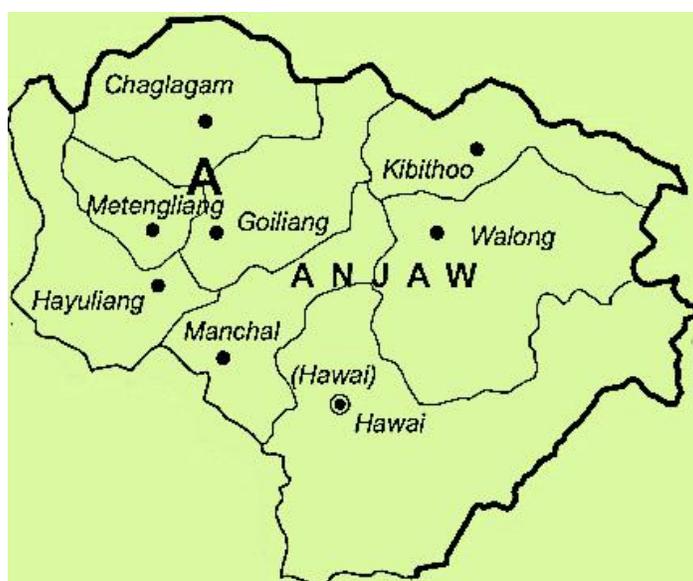


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Anjaw

No: 48/2017/Fri

Dated: 16th June, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--------------------------------------|--|
| No weather summary available | Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 26-30°C and 18-22°C respectively. Expected morning and evening relative humidity will be 94-97% and 54-66% respectively. Wind direction is mainly E at a speed range of 3-4 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

| Crop | Stage | Pest/Disease | Precautionary Practices to be followed |
|----------------------------|---------------------------------------|--|--|
| FIELD CROPS | | | |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • If already sown, maintain proper drainage |
| <i>Jhum</i> field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Maintain periphery of nursery field weed free and clean to prevent disease and pest harboring in weeds. |
| VEGETABLES | | | |
| Pre-summer vegetables | Seedling/vegetative | Aphids in Cucurbitaceous crops/ Brinjal Shoot & Fruit borer | <ul style="list-style-type: none"> • 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 | | | |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Orchards | Multiple stages | | <ul style="list-style-type: none"> • 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 |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Citrus | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Affected leaves, branch should be pruned and burnt.. • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Large Cardamom | Sowing/germination | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. • Provide adequate drainage |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 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.) | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> • Provide UMB/Molasses 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 (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short. |
| Mithun | | FMD | <ul style="list-style-type: none"> • Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided from vaccination. |
| Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247 | | | |

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Agro-met Advisory Bulletin

(Period: 17th to 20th June 2017)

ग्रामीण कृषि मौसम सेवा

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

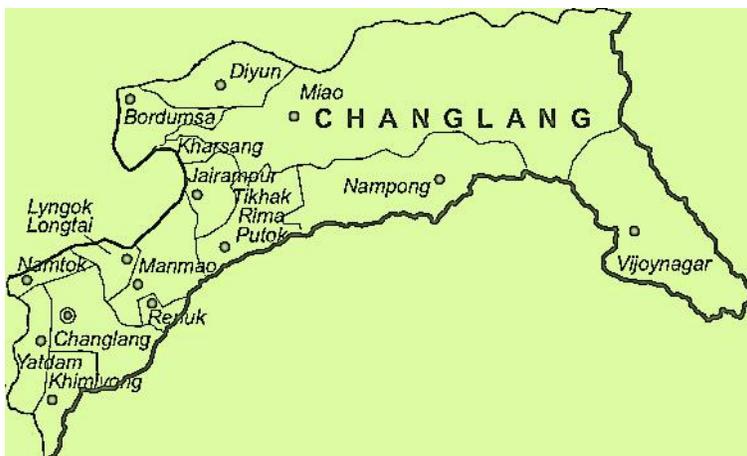


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Changlang

No: 48/2017/Fri

Dated: 16th June, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--|--|
| Rainfall = Changlang: 3.8 mm Miao: 11.8 mm | Mostly cloudy with possibility of moderate/rather heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 25-28°C and 19-23°C respectively. Expected morning and evening relative humidity will be 96-99% and 71-86% respectively. Wind direction is mainly E with speed range of 2-4 kmph. |
| Warning | • Heavy to very heavy rainfall likely on 16th June |

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

| Crop | Stage | Pest/Disease | Precautionary Practices to be followed |
|----------------------------|---------------------------------------|--|--|
| FIELD CROPS | | | |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Affected leaves, branch should be pruned and burnt. • Spray copper oxychloride 200 gm with streptocycline 6 gm in 60 lits of water before onset of monsoon. Spray 3-4 times at interval of 30 days on clear day or using stickers. • To check fruit drop spray with 1.5 gms 2,4-D or Gibberelic acid (GA) using stickers • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • 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 | | | <ul style="list-style-type: none"> • 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 |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |
| Honey Bees | | | |
| Honey bees | | | <ul style="list-style-type: none"> • Box must be covered with straw/dry leaves to provide warmth |

| | | | <ul style="list-style-type: none"> • 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.) | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 |
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| Fishery | Fingerlings | | <ul style="list-style-type: none"> • 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: 17th to 20th June 2017)

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

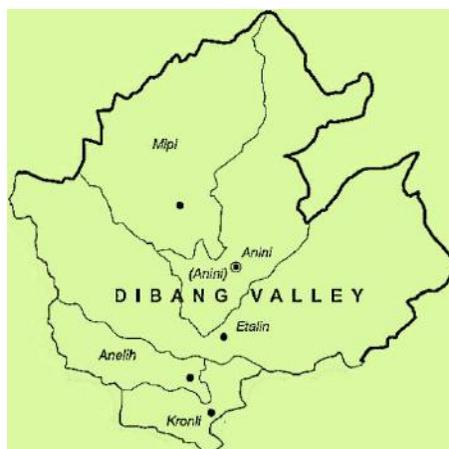


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Dibang Valley

No: 48/2017/Fri

Dated: 16th June, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--------------------------------------|--|
| Rainfall = 1.0 (Anini) | Mostly cloudy with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 22-26°C and 15-18°C respectively. Expected morning and evening relative humidity will be 91-96% and 52-82% respectively. Wind direction is mainly E & ESE with speed range of 2-5 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

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 | | | |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Affected leaves, branch should be pruned and burnt. • Spray copper oxychloride 200 gm with streptocycline 6 gm in 60 lits of water before onset of monsoon. Spray 3-4 times at interval of 30 days using stickers if rains • To check fruit drop spray with 1.5 gms 2,4-D or Gibberelic acid (GA) using stickers during rain • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Orchards | | | <ul style="list-style-type: none"> • 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 |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |
| Apple | Vegetative | Wooly aphids | <ul style="list-style-type: none"> • Swab the stem with mineral oil against wooly aphid. |

| Honey Bees | | | |
|---|-------------|---|---|
| Honey bees | | | <ul style="list-style-type: none"> 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.) | <ul style="list-style-type: none"> 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 | | <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 (KMnO₄) or neem leaves Long hair near the udder/stomach/back legs should be teamed short. |
| Fishery | Fingerlings | | <ul style="list-style-type: none"> Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings |
| Mithun | | FMD | <ul style="list-style-type: none"> Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided. |
| <p align="center">Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</p> | | | |

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: 17th to 20th June 2017)

ग्रामीण कृषि मौसम सेवा



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



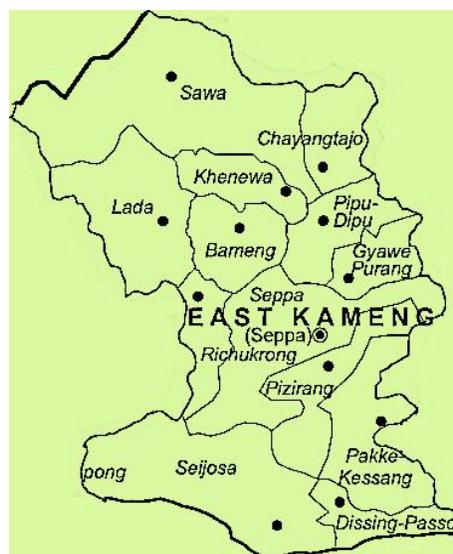
भा.क.अ.पु. - पू.प.सं.
ICAR - RCNEH

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

District: East Kameng

No: 48/2017/Fri

Dated: 16th June, 2017



| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--------------------------------------|---|
| Rainfall = 7.8 mm | Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 22-24°C and 15-16°C respectively. Expected morning and evening relative humidity will be 93-98% and 65-91% respectively. Expected wind direction is mainly ENE with speed range of 2-4 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

| Crop | Stage | Pest/Disease | Precautionary Practices to be followed |
|----------------------------|---------------------------------------|--|---|
| FIELD CROPS | | | |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | | | |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done |
| Citrus | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Affected leaves, branch should be pruned and burnt. • Spray copper oxychloride 200 gm with streptomycin 6 gm in 60 lits of water before onset of monsoon. Spray 3-4 times at interval of 30 days using stickers • To check fruit drop spray with 1.5 gms 2,4-D or Gibberelic acid (GA) using stickers • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Orchards | | | <ul style="list-style-type: none"> • 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 |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |

| Agroforestry | | | |
|---|--------------------|---|---|
| Toko palm | Nursery | | Filling of nursery polybags for raising of takopalm seedlings |
| LIVESTOCKS | | | |
| Livestock | Stage | Disease | Precautionary Practices to be followed |
| Fishery | Fingerlings | | <ul style="list-style-type: none"> • Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings |
| Fishery | | | <ul style="list-style-type: none"> • 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.) | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> • 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 (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short. |
| Mithun | | FMD | <ul style="list-style-type: none"> • Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided. |
| Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247 | | | |

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कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 17th to 20th June 2017)

ग्रामीण कृषि मौसम सेवा



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

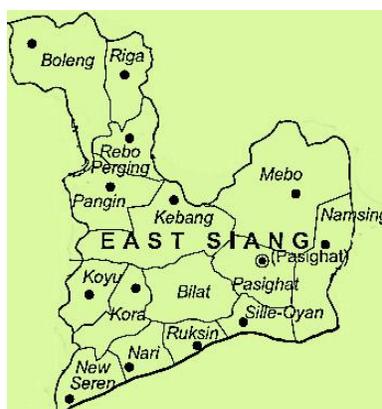


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: East Siang

No: 48/2017/Fri

Dated: 16th June, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|---|---|
| Rainfall: 33.2 mm; T. Max: 31.0°C; T. Min: 24.0°C; RH: 87-98% | Mostly cloudy with possibility of moderate to rather heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 28-33°C and 23-25°C respectively. Expected morning and evening relative humidity will be 93-96% and 69-91% respectively. Expected wind direction is mainly NE with speed range of 2-4 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

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 | | | |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Avoid sowing • If already sown, maintain proper drainage |
| VEGETABLES | | | |
| Pre-summer vegetables | Seedling/vegetative | Aphids in Cucurbitaceous crops/ Brinjal Shoot & Fruit borer | <ul style="list-style-type: none"> • 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 | Fruiting | Citrus scab/ leaf miner | <ul style="list-style-type: none"> • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • 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 | | | <ul style="list-style-type: none"> • 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 |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |
| Honey Bees | | | |
| Honey bees | | | <ul style="list-style-type: none"> • On prolong rain, provide sugar syrup |
| LIVESTOCKS | | | |
| Livestock | Stage | Disease | Precautionary Practices to be followed |
| Pigs | All stages | FMD (high fever and appearance | <ul style="list-style-type: none"> • Keep the houses dry and clean. • 1st injection at 6 months of age and 2nd injection at 12 months of |

| | | | |
|---|-------------|--|---|
| | | of mucous membrane of the mouth and foot.) | age followed by annual vaccination under vet supervision against FMD <ul style="list-style-type: none"> • Reduce concentrate diet up to 5% • Provide adequate potable water |
| Poultry | All stages | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> • 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 (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short. |
| Fishery | Fingerlings | | <ul style="list-style-type: none"> • Broadcasting of Mustard Oil Cake (MOC) @ 5kg/pond twice daily advocated for healthy fingerlings |
| Mithun | | FMD | <ul style="list-style-type: none"> • Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided. |
| Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247 | | | |

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ICAR, BASAR**

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 17th to 20th June 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: Kurung Kumey

No: 48/2017/Fri

Dated: 16th June, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--------------------------------------|---|
| Past weather summary not available | Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 28-31°C and 20-22°C respectively. Expected morning and evening relative humidity will be 91-92% and 73-80% respectively. Wind direction is variable with speed range of 2-3 kmph. |
| Warning | • Heavy to very heavy rainfall likely on 16th June |

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 | | | |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophose@2ml/lit water in young seedlings. |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • Sowing of short duration finger millet varieties like VL-324 & VR-708 can be carried out without delay. • If already sown, maintain proper drainage |
| Pea | Seedling | | <ul style="list-style-type: none"> • Provide proper drainage to already sown crops |
| VEGETABLES | | | |
| Pre-summer vegetables | Seedling/vegetative | Aphids in Cucurbitaceous crops/ Brinjal Shoot & Fruit borer | <ul style="list-style-type: none"> • 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 | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Apply Bordeaux paste on the tree trunks • Affected leaves, branch should be pruned and burnt. • Spray copper oxychloride 200 gm with streptocycline 6 gm in 60 lits of water before onset of monsoon. Spray 3-4 times at interval of 30 days. • To check fruit drop spray with 1.5 gms 2,4-D or Gibberelic acid (GA) • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • 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 | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |
| Honey Bees | | | |
| | | | <ul style="list-style-type: none"> • Box must be covered with straw/dry leaves to provide warmth |

LIVESTOCKS

| Livestock | Stage | Disease | Precautionary Practices to be followed |
|-----------|-------------|---|---|
| Fishery | Fingerlings | | <ul style="list-style-type: none"> • 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.) | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ➤ 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 | <ul style="list-style-type: none"> • 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 (KMnO₄) or neem leaves • Long hair near the udder/stomach/back legs should be teamed short. |
| Mithun | | FMD | <ul style="list-style-type: none"> • Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. • Pregnant animals above 7 months of pregnancy should be avoided. |

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

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

**Agrometeorological Field Unit
ICAR. BASAR**

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 17th to 20th June 2017)

ग्रामीण कृषि मौसम सेवा



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

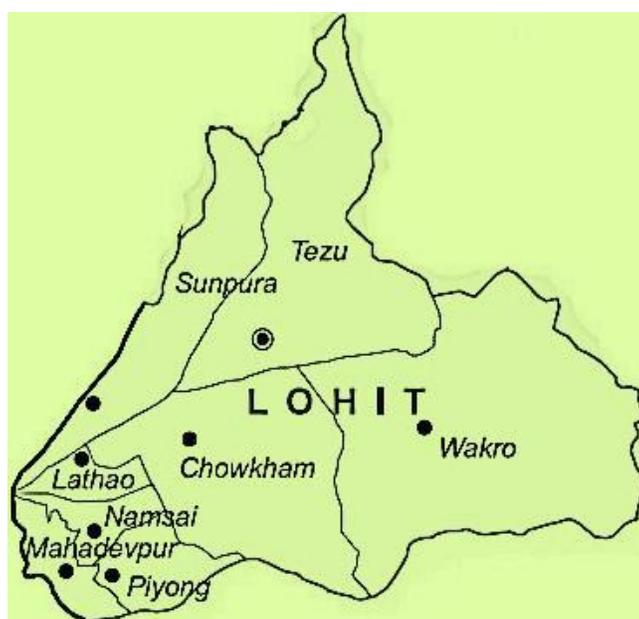


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Lohit

No No: 48/2017/Fri

Dated: 16th June, 2017



| Weather summary of the previous week | Weather forecast valid up to 21 st June 2017 |
|--------------------------------------|--|
| Rainfall = 17.4 mm (Tezu) | Mostly cloudy with possibility of moderate to rather heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 22-24°C and 17-21°C respectively. Expected morning and evening relative humidity will be 95-98% and 63-77% respectively. Wind direction is mainly E with speed range of 2-3 kmph. |
| Warning: | • Heavy to very heavy rainfall likely on 16th June |

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 | | | |
| Soybean | Sowing | | <ul style="list-style-type: none"> • Sowing can be done • If already sown, maintain proper drainage |
| Rice | Nursery/transplanting/Tillering stage | | <ul style="list-style-type: none"> • 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. • Seedling in lowland rice nursery may be carried out • Right time for transplantation |
| Maize | Multiple stages | | <ul style="list-style-type: none"> • If bluish-green leaves are observed, apply SSP or DAP along with 2/3rd of Urea to rejuvenate the plant from phosphorus deficiency |
| Groundnut | Vegetative stage | | <ul style="list-style-type: none"> • Do not disturb the soil after 40-45 DAS of groundnut, it will affect the pod formation adversely • On sunny day spray triazophos@2ml/lit water in young seedlings. |
| Jhum field | Tillering | | <ul style="list-style-type: none"> • Manual weeding advocated • Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice |
| Finger millet | Sowing | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | Vegetative | Phytophthora disease/ Citrus canker | <ul style="list-style-type: none"> • Affected leaves, branch should be pruned and burnt. • Spray copper oxychloride 200 gm with streptocycline 6 gm in 60 lits of water before onset of monsoon. Spray 3-4 times at interval of 30 days using stickers • To check fruit drop spray with 1.5 gms 2,4-D or Gibberelic acid (GA) using stickers • Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour. |
| Pineapple | Vegetative | | <ul style="list-style-type: none"> • Earthing-up and removal of excess suckers for better plant establishment and anchorage. |
| Ginger/Turmeric | Seedling | | <ul style="list-style-type: none"> • Proper drainage to be done and avoid water stagnation • Earthing up of ginger/turmeric along with basal application of required fertilizer should be done |
| Banana | Vegetative | | <ul style="list-style-type: none"> • Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance. • Denavelling (removal of male bud) to improve bunch weight • Bagging of bunches to protect against unusual rainfall. |
| Orchards | | | <ul style="list-style-type: none"> • 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 |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> • Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. • The duration of primary nursery being 3-4 months. |
| Honey Bees | | | |

| | | | |
|------------|--|--|--|
| Honey bees | | | <ul style="list-style-type: none"> • Provide sugar syrup near the box • Add insulation and ventilation systems |
|------------|--|--|--|

LIVESTOCKS

| Livestock | Stage | Disease | Precautionary Practices to be followed |
|-----------|-------------|---|---|
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