

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 26th to 28th April 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: 33/2017/Tue

Dated: 25th April, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 30 th April 2017 |
|--------------------------------------|---|
| No weather summary available | Partly weather with possibility of moderate/rather heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 21-23°C and 17-18°C respectively. Expected morning and evening relative humidity will be 86-96% and 50-75% respectively. Wind will blow mostly from SSE & ENE at a speed range of 3-6 kmph. |
| Warning: | <ul style="list-style-type: none">Heavy rainfall very likely on 25th April |

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 | Seedling | | <ul style="list-style-type: none">• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.• Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.• Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population• Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days• Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Pea | Seedling | | <ul style="list-style-type: none">• Provide proper drainage to already sown crops |
| Maize | Knee Height | | <ul style="list-style-type: none">• Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field• Provide proper drainage. |
| Jhum field | Sowing | | <ul style="list-style-type: none">• Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. |
| VEGETABLES | | | |
| Pre-summer vegetables | Seedling | Nursery insects | <ul style="list-style-type: none">• Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing |
| HORTICULTURAL CROPS | | | |
| 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. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none">• Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants. |
| Citrus | Flowering/fruiting | Bark eating caterpillar | <ul style="list-style-type: none">• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.• Cleaning & smearing of trunk base with Bordeaux paste• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.• For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.• Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Large Cardamom | Sowing | | <ul style="list-style-type: none">• 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 |
| Apple | Vegetative | Wooly aphids | <ul style="list-style-type: none">• On clear/dry day, swab the stem with mineral oil against wooly aphid. |
| AGROFORESTRY | | | |
| Toko palm | Nursery | | <ul style="list-style-type: none">• Filling of nursery polybags for raising of takopalm seedlings |

| 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 |
| Poultry | All stages | | <ul style="list-style-type: none"> 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"> 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 | | | |

Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department
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Agro-met Advisory Bulletin

(Period: 26th to 28th April 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: 33/2017/Tue

Dated: 25th April, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 30 th April 2017 |
|---|--|
| Rainfall = Changlang: 35.4 mm Miao: 15.2 mm | Partly cloudy weather forecasted with moderate/rather heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 19-20°C respectively. Expected morning and evening relative humidity will be 87-97% and 48-90% respectively. Wind direction is East with speed range of 2-4 kmph. |
| Warning | • Heavy rainfall very likely on 25th April |

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

| <ul style="list-style-type: none"> ICAR Basar recommend poultry variety VANARAJA for backyard rearing | | | |
|---|-------------|--|---|
| Crop | Stage | Pest/Disease | Precautionary Practices to be followed |
| FIELD CROPS | | | |
| Rice | Seedling | Stem borer | <ul style="list-style-type: none"> Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field. Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces. Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Maize | Knee height | | <ul style="list-style-type: none"> Sowing of maize in higher altitudes advocated in raised bed Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing |
| VEGETABLES | | | |
| Pre-summer vegetables | Germination | | <ul style="list-style-type: none"> Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed of 15-20cm for sowing |
| HORTICULTURAL CROPS | | | |
| 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. |
| 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 |
| Citrus | Fruiting | Bark eating caterpillar | <ul style="list-style-type: none"> Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none"> Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants. |
| 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 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 | <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 |

| | | | |
|---|------------|------------------|--|
| | | mouth and foot.) | |
| Poultry | All stages | | <ul style="list-style-type: none">• Follow ‘All in All out’ system of rearing and do not rear birds of different age groups together.• Avoid overcrowding.• 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none">• Best time to prepare the culture pond like cleaning aquatic weeds |
| Cattle | All stages | FMD | <ul style="list-style-type: none">• 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision |
| 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

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(Period: 26th to 28th April 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: 33/2017/Tue

Dated: 25th April, 2017



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

| Weather summery of the previous week | Weather forecast valid up to 30 th April, 2017 |
|--------------------------------------|---|
| Rainfall = 5.0 mm (Anini) | Partly cloudy sky with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 21-23°C and 13-14°C respectively. Expected morning and evening relative humidity will be 91-96% and 63-83% respectively. Wind direction is E with speed range of 5-6 kmph. |
| Warning: | • Heavy rainfall very likely on 25 th April |

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 | | | |
| Maize | Seedling | | <ul style="list-style-type: none"> Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| Rice | Seedling | Stem borer | <ul style="list-style-type: none"> Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field. Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field. Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces. Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Jhum field | Sowing | | <ul style="list-style-type: none"> Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. |
| VEGETABLES | | | |
| Pre-summer vegetables | Seedling | | <ul style="list-style-type: none"> Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing |
| HORTICULTURAL CROPS | | | |
| 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 |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none"> Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants. |
| Citrus | Fruiting | Bark eating caterpillar | <ul style="list-style-type: none"> Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> 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. |
| Agroforestry | | | |

| Toko palm | Nursery | | Filling of nursery polybags for raising of takopalm seedlings |
|---|------------|---|--|
| 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"> Animals should be given lukewarm feed and water. 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 |
| Poultry | All stages | | <ul style="list-style-type: none"> Follow ‘All in All out’ system of rearing and do not rear birds of different age groups together. Avoid overcrowding. 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none"> Best time to prepare the culture pond like cleaning aquatic weeds |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision |
| 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: 26th to 28th April 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: East Kameng

No: 33/2017/Tue

Dated: 25th April, 2017



| Weather summary of the previous week | Weather forecast valid up to 30 th April 2017 |
|--------------------------------------|---|
| Rainfall = 37.9 mm | Partly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 20-22°C and 14-16°C respectively. Expected morning and evening relative humidity will be 93-97% and 62-73% respectively. Expected wind direction is SE with speed range of 3-4 kmph. |
| Warning: | <ul style="list-style-type: none"> Heavy rainfall very likely on 25th April |

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 | Seedling | Stem borer | <ul style="list-style-type: none"> Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field. Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces. Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population Seedling root dip treatment in 0.02% of Chlorpyrifos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Maize | Knee height | | <ul style="list-style-type: none"> Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| Jhum field | Sowing | | <ul style="list-style-type: none"> Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing |
| VEGETABLES | | | |
| Pre-summer vegetables | Seedling | | <ul style="list-style-type: none"> Provide drainage to newly transplanted seedlings |
| HORTICULTURAL CROPS | | | |
| 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. |
| 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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| Citrus | Flowering | Bark eating caterpillar | <ul style="list-style-type: none"> Budding method of propagation (T-budding) to commence in oranges using Rangpur lime as rootstock. Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| 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 |
| Pigs | All stages | FMD (high fever and appearance of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none">• Animals should be given lukewarm feed and water.• 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 |
| Poultry | All stages | | <ul style="list-style-type: none">• Follow ‘All in All out’ system of rearing and do not rear birds of different age groups together.• Avoid overcrowding.• 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none">• Best time to prepare the culture pond like cleaning aquatic weeds |
| Cattle | All stages | FMD | <ul style="list-style-type: none">• 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision |
| 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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ICAR, BASAR

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(Period: 26th to 28th April 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: East Siang

No: 33/2017/Tue

Dated: 25th April, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 26 th April 2017 |
|---|--|
| Rainfall: 0.0 mm; T. Max: 33.0°C; T. Min: 21.0°C ; RH: 71-95% | Mostly cloudy with possibility of moderate rainfall in most of the places. Daily maximum and minimum temperature for the following period is predicted to be 28-29°C and 21-22°C respectively. Expected morning and evening relative humidity will be 92-97% and 70-92% respectively. Expected wind direction is variable with speed range of 2-4 kmph. |
| Warning: | • NIL |

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

| Crop | Stage | Pest/Disease | Precautionary Practices to be followed |
|-----------------------|--|-------------------------|---|
| FIELD CROPS | | | |
| Rice | Seedling | Stem borer | <ul style="list-style-type: none">• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.• Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.• Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population• Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days• Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Maize | Sowing/ Seedling | | <ul style="list-style-type: none">• Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| Jhum field | Sowing | | <ul style="list-style-type: none">• Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing to avoid fungal infections during rainy days |
| VEGETABLES | | | |
| Pre-summer vegetables | Sowing /seedling | Nursery insects | <ul style="list-style-type: none">• Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.• Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing• Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects |
| HORTICULTURAL CROPS | | | |
| 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. |
| 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 |
| Citrus | Flowering/fruiting | Bark eating caterpillar | <ul style="list-style-type: none">• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.• Cleaning & smearing of trunk base with Bordeaux paste• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.• Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop• For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.• Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Planting material collection/ Land preparation | | <ul style="list-style-type: none">• Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw• Keep selected rhizomes for planting material in partial shade for better sprouting.• Mulching materials like forest litters or crop residues should be collected in advance |

| | | | |
|---|--------------|---|---|
| | | | <ul style="list-style-type: none"> Land preparation to a fine tilth to be done before sowing during sunny days Avoid sowing of Ginger/Turmeric during rainy days |
| 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 of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none"> 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision |
| Poultry | All stages | | <ul style="list-style-type: none"> Follow ‘All in All out’ system of rearing and do not rear birds of different age groups together. Provide adequate clean drinking water+electrolyte and multi-vitamins Give broad-spectrum antihelmintic drugs as per prescribed doses. 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none"> Best time to prepare the culture pond like cleaning aquatic weeds |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision |
| 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: 26th to 28th April 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: 33/2017/Tue

Dated: 25th April, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 30 th April 2016 |
|--------------------------------------|--|
| Past weather summary not available | Partly cloudy weather with possibility of light/moderate rainfall in most of the places. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 18-19°C respectively. Expected morning and evening relative humidity will be 90-92% and 69-75% respectively. Wind direction is WSW with speed range of 2-4 kmph. |
| Warning | • Heavy rainfall very likely on 25th April |

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 | Seedling | Stem borer | <ul style="list-style-type: none"> Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field. Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field. Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces. Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Jhum field | Sowing | | <ul style="list-style-type: none"> Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing |
| Pea | Seedling | | <ul style="list-style-type: none"> Provide proper drainage to already sown crops |
| VEGETABLES | | | |
| Pre-summer vegetables | Sowing/Seedling | Nursery insects | <ul style="list-style-type: none"> Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects |
| HORTICULTURAL CROPS | | | |
| 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. |
| Citrus | Flowering/Fruiting | Bark eating caterpillar | <ul style="list-style-type: none"> Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none"> Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants. |
| 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. |
| Agroforestry | | | |
| Toko palm | Nursery | | Filling of nursery polybags for raising of takopalm seedlings |

| 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 |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 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. |
| Pigs | All stages | FMD (high fever and appearance of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none"> Provide adequate bedding material (paddy straw, rice husk) to newly born piglets. Animals should be given lukewarm feed and water. All animals should be tethered in a covered shelter. 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 |
| Poultry | All stages | | <ul style="list-style-type: none"> Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none"> Best time to prepare the culture pond like cleaning aquatic weeds |
| 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: 26th to 28th April 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: 33/2017/Tue

Dated: 25th April, 2017



| Weather summary of the previous week | Weather forecast valid up to 30 th April, 2017 |
|--------------------------------------|---|
| Rainfall =28.9 mm (Tezu) | Partly cloudy weather with possibility of moderate/rather heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 24-26°C and 18-19°C respectively. Expected morning and evening relative humidity will be 85-96% and 45-81% respectively. Wind direction is East with speed range of 3-4 kmph. |
| Warning: | <ul style="list-style-type: none">Heavy rainfall very likely on 25th April |

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 | Seedling | Stem borer | <ul style="list-style-type: none">• Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.• Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.• Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population• Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days• Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| VEGETABLES | | | |
| Cole crops | Nursery | | <ul style="list-style-type: none">• Raising nursery can be carried out in higher altitudes/ cold areas |
| Pre-summer vegetables | Sowing/ Seedling | | <ul style="list-style-type: none">• Sowing of pre-summer vegetables like okra, frenchbean etc advocated, avoid sowing during rainy days• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing• Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.• Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing. |
| HORTICULTURAL CROPS | | | |
| 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. |
| 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 |
| Citrus | Flowering | Bark eating caterpillar | <ul style="list-style-type: none">• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.• Cleaning & smearing of trunk base with Bordeaux paste• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.• Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop• For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.• Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none">• Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw• Keep selected rhizomes for planting material in partial shade for better sprouting.• Mulching materials like forest litters or crop residues should be collected in advance• Land preparation to a fine tilth to be done before sowing during sunny days• Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. |

| | | | |
|---|--------------|---|--|
| 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"> Animals should be given lukewarm feed and water. 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 |
| Poultry | All stages | | <ul style="list-style-type: none"> Follow ‘All in All out’ system of rearing and do not rear birds of different age groups together. Avoid overcrowding. Provide adequate clean drinking water+electrolyte and multi-vitamins Give broad-spectrum antihelmintic drugs as per prescribed doses. 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none"> Best time to prepare the culture pond like cleaning aquatic weeds |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 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. |
| 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: 26th to 28th April 2017)

ग्रामीण कृषि मौसम सेवा



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

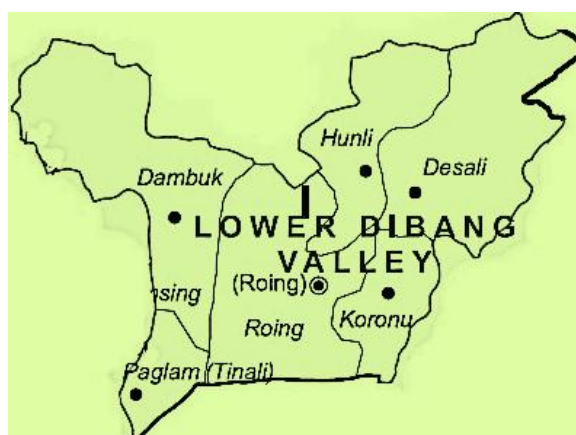


AMFU, ICAR Research Complex for NEH Region
Arunachal Pradesh Centre, Basar-791101

District: Lower Dibang Valley

No: 33/2017/Tue

Dated: 25th April, 2017



| Weather summary of the previous week | Weather forecast valid up to 30 th April, 2017 |
|--------------------------------------|---|
| Rainfall = 30.5 mm (Roing) | Partly cloudy weather with possibility of moderate/heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 24-25°C and 19-20°C respectively. Expected morning and evening relative humidity will be 87-97% and 52-88% respectively. Wind direction is East with speed range of 4-6 kmph. |
| Warning: | <ul style="list-style-type: none">• Heavy rainfall very likely on 25th April |

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 | Seedling | Stem borer | <ul style="list-style-type: none">• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.• Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.• Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population• Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days• Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Maize | Seedling/ Knee height | | <ul style="list-style-type: none">• Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| Pea | Sowing | | <ul style="list-style-type: none">• Sowing of pea recommended for higher altitudes with raised bed of 15-20cm• Provide proper drainage to already sown crops |
| Jhum field | Sowing | | <ul style="list-style-type: none">• Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing to avoid fungal• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. |
| VEGETABLES | | | |
| Cole crops | Nursery | | <ul style="list-style-type: none">• Raising nursery can be carried out in higher altitudes/ cold areas |
| Pre-summer vegetables | Sowing/ Seedling | Nursery insects | <ul style="list-style-type: none">• Sowing of pre-summer vegetables like okra, frenchbean etc advocated• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing• Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.• Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing• Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha |
| HORTICULTURAL CROPS | | | |
| 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. |
| 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 |
| Citrus | Flowering / Fruiting | Bark eating caterpillar | <ul style="list-style-type: none">• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.• Cleaning & smearing of trunk base with Bordeaux paste• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.• Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop |

| | | | |
|---|--------------|---|--|
| | | | <ul style="list-style-type: none"> For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none"> Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw Keep selected rhizomes for planting material in partial shade for better sprouting. Mulching materials like forest litters or crop residues should be collected in advance Land preparation to a fine tilth to be done before sowing during sunny days Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. |
| 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"> Animals should be given lukewarm feed and water. 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 |
| Poultry | All stages | | <ul style="list-style-type: none"> Give broad-spectrum antihelmintic drugs as per prescribed doses. Follow ‘All in All out’ system of rearing and do not rear birds of different age groups together. Avoid overcrowding. 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/provide artificial heating and light |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 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 | | | <ul style="list-style-type: none"> Best time to prepare the culture pond like cleaning aquatic weeds |
| 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: 26th to 28th April 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: 33/2017/Tue

Dated: 25th April, 2017



| Weather summary of the previous week | Weather forecast valid up to 30 th April 2017 |
|--------------------------------------|--|
| Rainfall = 0.0 mm (Ziro) | Partly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 24-25°C and 16-18°C respectively. Expected morning and evening relative humidity will be 94-97% and 71-78% respectively. Wind direction is SSW with speed range of 2-3 kmph. |
| Warning: | <ul style="list-style-type: none">Heavy rainfall very likely on 25th April |

Weather Based Agro-meteorological Advisories Bulletin

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

| Crop | Stage | Pest/Disease | Precautionary Practices to be followed |
|----------------------------|----------------------|-------------------------|---|
| FIELD CROPS | | | |
| Jhum field | Sowing | | <ul style="list-style-type: none"> Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing |
| Rice | Seedling | Stem borer | <ul style="list-style-type: none"> Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field. Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces. Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Maize | Sowing/ Seedling | | <ul style="list-style-type: none"> Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| VEGETABLES | | | |
| Pre-summer vegetables | Sowing / Seedling | Nursery insects | <ul style="list-style-type: none"> Sowing of pre-summer vegetables like okra, frenchbean etc advocated Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha |
| HORTICULTURAL CROPS | | | |
| 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. |
| 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 |
| Citrus | Flowering/fruiting | Bark eating caterpillar | <ul style="list-style-type: none"> Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none"> Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw |

| | | | |
|---|--------------|---|--|
| | | | <ul style="list-style-type: none"> Keep selected rhizomes for planting material in partial shade for better sprouting. Mulching materials like forest litters or crop residues should be collected in advance Land preparation to a fine tilth to be done before sowing during sunny days Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. |
| 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. |
| Kiwi | Planting | | <ul style="list-style-type: none"> Pit size: 60cmX60cmX60cm Spacing: 6mX4m (Plant to plant and row to row) In kiwi the male and female plants are borne on different vines. So a male plant is provided for pollination of 6-8 plants at every third plant from the second row. Pit filling: mixture of top soil, 20-30kg FYM along with chloropyriphos@25-30g/pit (to avoid insect damage) |
| Apple | Vegetative | Wooly aphids | <ul style="list-style-type: none"> Swab the stem with mineral oil against wooly aphid. |
| 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"> Animals should be given lukewarm feed and water. 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 |
| Poultry | All stages | | <ul style="list-style-type: none"> Give broad-spectrum antihelmintic drugs as per prescribed doses. Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none"> Best time to prepare the culture pond like cleaning aquatic weeds |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 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 | | | |

Agrometeorological Field Unit
ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 26th to 28th April 2017)

ग्रामीण कृषि मौसम सेवा



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



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

District: Papum Pare

No: 33/2017/Tue

Dated: 25th April, 2017



| Weather summary of the previous week | Weather forecast valid up to 30 th April 2017 |
|--|---|
| Rainfall: 43.7 mm; T. Max: 32.0°C; T. Min: 19.0°C ; RH: 75-93% | Partly cloudy weather with possibility light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 24-25°C and 19-20°C respectively. Expected morning and evening relative humidity will be 94-97% and 55-73% respectively. Expected wind direction is E with speed range of 2-4 kmph. |
| Warning: | • Heavy rainfall very likely on 25th April |

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 | Seedling | Stem borer | <ul style="list-style-type: none">• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.• Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.• Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population• Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days• Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Maize | Sowing/ Seedling | | <ul style="list-style-type: none">• Sowing of Maize advocated• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing• Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| Jhum field | Sowing | | <ul style="list-style-type: none">• Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. |
| VEGETABLES | | | |
| Pre-summer vegetables | Sowing /Seedling | | <ul style="list-style-type: none">• Sowing of pre-summer vegetables like French bean, capsicum etc advocated, avoid during rainy days.• Seed treatment with Imidichloropid @ 1-2g/10kg is recommended before sowing |
| HORTICULTURAL CROPS | | | |
| 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 |
| 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. |
| Citrus | Flowering/ Fruiting | Bark eating caterpillar | <ul style="list-style-type: none">• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.• Cleaning & smearing of trunk base with Bordeaux paste• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.• Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop• For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.• Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none">• Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw• Keep selected rhizomes for planting material in partial shade for better sprouting.• Mulching materials like forest litters or crop residues should be collected in advance |

| | | | |
|---|--------------|---|--|
| | | | <ul style="list-style-type: none"> Land preparation to a fine tilth to be done before sowing during sunny days Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. |
| 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 |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 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. |
| Pigs | All stages | FMD (high fever and appearance of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none"> 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision |
| Poultry | All stages | | <ul style="list-style-type: none"> Give broad-spectrum antihelmintic drugs as per prescribed doses. Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none"> Best time to prepare the culture pond like cleaning aquatic weeds |
| 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: 26th to 28th April 2017)

ग्रामीण कृषि मौसम सेवा



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



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

District: Tawang

No: 33/2017/Tue

Dated: 25th April, 2017



| Weather summary of the previous week | Weather forecast valid up to 30 th April 2017 |
|--------------------------------------|---|
| Rainfall = 0.0 mm | Mostly cloudy weather with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 13-14°C and 3-4°C respectively. Expected morning and evening relative humidity will be 77-91% and 54-78% respectively. Wind direction is mainly WSW with probable speed range of 4-7 kmph. |
| Warning: | <ul style="list-style-type: none">Heavy rainfall very likely on 25th April |

Weather Based Agro-meteorological Advisories Bulletin

General Recommendations

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

| Crop | Stage | Pest/Disease | Precautionary Practices to be followed |
|----------------------------|---------------------|-------------------------|---|
| FIELD CROPS | | | |
| Rice | Seedling | Stem borer | <ul style="list-style-type: none"> Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field. Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces. Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Maize | Sowing/ Seedling | | <ul style="list-style-type: none"> Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| Jhum field | Sowing | | <ul style="list-style-type: none"> Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing |
| VEGETABLES | | | |
| Cole crops | Nursery | | <ul style="list-style-type: none"> Raising nursery can be carried out in higher altitudes/ cold areas Provide adequate drainage to already sown crops |
| Pre-summer vegetables | Sowing /Seedling | Nursery insects | <ul style="list-style-type: none"> Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects |
| HORTICULTURAL CROPS | | | |
| 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 |
| Banana | Vegetative | | <ul style="list-style-type: none"> Desuckering (removing excess numbers of suckers arising from the mother plant) should be followed |
| Citrus | Flowering | Bark eating caterpillar | <ul style="list-style-type: none"> Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Large Cardamom | Sowing | | <ul style="list-style-type: none"> Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching & regular light irrigation. |

| | | | |
|---|--------------|---|--|
| | | | <ul style="list-style-type: none"> 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. |
| Agroforestry | | | |
| Toko palm | Nursery | | Filling of nursery polybags for raising of takopalm seedlings |
| 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"> Animals should be given lukewarm feed and water. 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 |
| Poultry | All stages | | <ul style="list-style-type: none"> Give broad-spectrum antihelmintic drugs as per prescribed doses. Follow ‘All in All out’ system of rearing and do not rear birds of different age groups together. Avoid overcrowding. 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none"> Best time to prepare the culture pond like cleaning aquatic weeds. |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 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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Agrometeorological Field Unit

ICAR, BASAR

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 26th to 28th April 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: 33/2017/Tue

Dated: 25th April, 2017



| Weather summary of the previous week | Weather forecast valid up to 30 th April, 2017 |
|--------------------------------------|---|
| Rainfall = 51.4 mm (Deomali) | Partly cloudy with possibility of light/moderate rainfall in most of the places. Daily maximum and minimum temperature for the following period is predicted to be 26-29°C and 18-20°C respectively. Expected morning and evening relative humidity will be 95-100% and 58-92% respectively. Wind direction is SE with speed range of 2 kmph. |
| Warning: | <ul style="list-style-type: none">Heavy rainfall very likely on 25th April |

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 | | | |
| Rice | Seedling | Stem borer | <ul style="list-style-type: none"> Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field. Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces. Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Maize | Sowing/Seedling | | <ul style="list-style-type: none"> Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| Jhum field | Sowing | | <ul style="list-style-type: none"> Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing |
| VEGETABLES | | | |
| Pre-summer vegetables | Sowing /Seedling | Nursery insects | <ul style="list-style-type: none"> Sowing of pre-summer vegetables like okra, frenchbean etc advocated, avoid during rainy days Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing |
| HORTICULTURAL CROPS | | | |
| 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. |
| 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 |
| Citrus | Flowering/fruiting | Bark eating caterpillar | <ul style="list-style-type: none"> Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock. Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none"> Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw |

| | | | |
|---|--------------|---|--|
| | | | <ul style="list-style-type: none"> Keep selected rhizomes for planting material in partial shade for better sprouting. Mulching materials like forest litters or crop residues should be collected in advance Land preparation to a fine tilth to be done before sowing during sunny days Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. |
| 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 | | | |
| | | | <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 |
| Poultry | All stages | | <ul style="list-style-type: none"> Give broad-spectrum antihelmintic drugs as per prescribed doses. Follow ‘All in All out’ system of rearing and do not rear birds of different age groups together. Avoid overcrowding. 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none"> Best time to prepare the culture pond like cleaning aquatic weeds |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 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: 26th to 28th April 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: 33/2017/Tue

Dated: 25th April, 2017



| Weather summary of the previous week | Weather forecast valid up to 30 th April, 2017 |
|--------------------------------------|---|
| Rainfall = 46.4 mm (Tuting) | Partly cloudy sky 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 79-88% and 59-69% respectively. Wind direction is SSE & S with speed range of 4 kmph. |
| Warning: | • Heavy rainfall very likely on 25th April |

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 | | | |
| Rice | Seedling | Stem borer | <ul style="list-style-type: none">• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.• Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.• Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population• Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days• Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Pea | Sowing/ Seedling | | <ul style="list-style-type: none">• Sowing of pea recommended for higher altitudes with raised bed of 15-20cm• Provide proper drainage to already sown crops |
| Maize | Sowing/ Seedling | | <ul style="list-style-type: none">• Sowing of Maize advocated• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing• Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| Jhum field | Sowing | | <ul style="list-style-type: none">• Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing |
| VEGETABLES | | | |
| Pre-summer vegetables | Sowing/ Seedling | Nursery insects | <ul style="list-style-type: none">• Sowing of pre-summer vegetables like okra, frenchbean etc advocated, avoid during rainy days.• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing• Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.• Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing• Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha |
| HORTICULTURAL CROPS | | | |
| 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. |
| 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 |
| Citrus | Flowering/ Fruiting | Bark eating caterpillar | <ul style="list-style-type: none">• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.• Cleaning & smearing of trunk base with Bordeaux paste• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.• Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop• For bark eating caterpillar, remove wooden frass and |

| | | | |
|---|--------------|---|---|
| | | | inject Dichlorovos (0.1%) @ 5ml with disposable syringe. <ul style="list-style-type: none">• Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none">• Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw• Keep selected rhizomes for planting material in partial shade for better sprouting.• Mulching materials like forest litters or crop residues should be collected in advance• Land preparation to a fine tilth to be done before sowing during sunny days• Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. |
| 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• 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">• Animals should be given lukewarm feed and water.• 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 |
| Poultry | All stages | | <ul style="list-style-type: none">• Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.• Follow ‘All in All out’ system of rearing and do not rear birds of different age groups together.• Avoid overcrowding.• 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none">• Best time to prepare the culture pond like cleaning aquatic weeds |
| Cattle | All stages | FMD | <ul style="list-style-type: none">• 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 | | | |

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 26th to 28th April 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: 33/2017/Tue

Dated: 25th April, 2017



| Weather summary of the previous week | Weather forecast valid up to 30 th April 2017 |
|--|--|
| Rainfall = 0.0 mm (Puchi Geko); Daporijo: 2.8 mm | Partly cloudy with possibility of light/moderate rainfall in most of the places. Daily maximum and minimum temperature for the following period is predicted to be 24-25°C and 19-20°C respectively. Expected morning and evening relative humidity will be 90-95% and 73-82% respectively. Expected wind direction is variable with speed range of 2-3 kmph. |
| Warning | • Heavy rainfall very likely on 25th April |

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 | Seedling | Stem borer | <ul style="list-style-type: none">• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.• Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.• Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population• Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days• Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Maize | Sowing/ Seedling | | <ul style="list-style-type: none">• Sowing of Maize advocated• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing• Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| Pea | Sowing | | <ul style="list-style-type: none">• Sowing of pea recommended for higher altitudes with raised bed of 15-20cm• Provide proper drainage to already sown crops |
| Jhum field | Sowing | | <ul style="list-style-type: none">• Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing |
| VEGETABLES | | | |
| Pre-summer vegetables | Seedling | | <ul style="list-style-type: none">• Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing |
| HORTICULTURAL CROPS | | | |
| 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. |
| 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 |
| Citrus | Flowering/ Fruiting | Bark eating caterpillar | <ul style="list-style-type: none">• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.• Cleaning & smearing of trunk base with Bordeaux paste• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.• Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop• For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.• Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none">• Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw• Keep selected rhizomes for planting material in partial shade for better sprouting.• Mulching materials like forest litters or crop residues should |

| | | | |
|---|--------------|---|--|
| | | | be collected in advance <ul style="list-style-type: none"> Land preparation to a fine tilth to be done before sowing during sunny days Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. |
| 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. |
| Banana | Bunching | Cold | <ul style="list-style-type: none"> Timely/regular removal of extra suckers, dry leaves & pseudo-stem |
| Apple | Vegetative | Wooly aphids | <ul style="list-style-type: none"> Swab the stem with mineral oil against wooly aphid. |
| Agroforestry | | | |
| Toko palm | Nursery | | Filling of nursery polybags for raising of takopalm seedlings |
| 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 |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 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. |
| Pigs | All stages | FMD (high fever and appearance of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none"> Provide adequate bedding material (paddy straw, rice husk) to newly born piglets. Animals should be given lukewarm feed and water. All animals should be tethered in a covered shelter. 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 |
| Poultry | All stages | | <ul style="list-style-type: none"> Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none"> Best time to prepare the culture pond like cleaning aquatic weeds |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision |
| 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)

कृषि मौसम सलाहकार सेवा पत्रिका

Agro-met Advisory Bulletin

(Period: 26th to 28th April 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: 33/2017/Tue

Dated: 25th April, 2017



| Weather summary of the previous week | Weather forecast valid up to 30 th April 2017 |
|--|--|
| Rainfall = Bomdila: 0.0 mm; Bhalukpong: 8.4 mm | Partly cloudy weather with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 16-17°C and 6-7°C respectively. Expected morning and evening relative humidity will be 88-95% and 58-76% respectively. Wind direction is S with speed range of 2-4 kmph. |
| Warning: | • Heavy rainfall very likely on 25th April |

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 | Seedling | Stem borer | <ul style="list-style-type: none">• Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.• Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.• Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population• Seedling root dip treatment in 0.02% of Chlorpyriphos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days• Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Maize | Sowing/ Seedling | | <ul style="list-style-type: none">• Sowing of Maize advocated• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing• Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| Pea | Sowing | | <ul style="list-style-type: none">• Sowing of pea recommended for higher altitudes with raised bed of 15-20cm• Provide proper drainage to already sown crops |
| Jhum field | Sowing | | <ul style="list-style-type: none">• Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing |
| VEGETABLES | | | |
| 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. |
| 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 |
| Citrus | Flowering/ Fruiting | Bark eating caterpillar | <ul style="list-style-type: none">• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.• Cleaning & smearing of trunk base with Bordeaux paste• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.• Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop• For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.• Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none">• Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw• Keep selected rhizomes for planting material in partial shade for better sprouting.• Mulching materials like forest litters or crop residues should be collected in advance |

| | | | |
|---|--------------|---|--|
| | | | <ul style="list-style-type: none"> Land preparation to a fine tilth to be done before sowing during sunny days Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. |
| Cole crops | Nursery | | <ul style="list-style-type: none"> Raising nursery can be carried out in higher altitudes/ cold areas |
| Pre-summer vegetables | Sowing | Nursery insects | <ul style="list-style-type: none"> Sowing of pre-summer vegetables like okra, frenchbean etc advocated, avoid during rainy days Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing. Right time for transplanting the ready seedlings of chili, tomato, capsicum etc. Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha |
| HORTICULTURAL CROPS | | | |
| 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"> Provide sugar syrup near the box Add insulation and ventilation systems |
| LIVESTOCKS | | | |
| Livestock | Stage | Disease | Precautionary Practices to be followed |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 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. |
| Pigs | All stages | FMD (high fever and appearance of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none"> Animals should be given lukewarm feed and water. 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 |
| Poultry | All stages | | <ul style="list-style-type: none"> Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. 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/provide artificial heating and light |
| Fishery | | | <ul style="list-style-type: none"> Best time to prepare the culture pond like cleaning aquatic weeds |
| 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 | | | |

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: 26th to 28th April 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: 33/2017/Tue

Dated: 25th April, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 30 th April 2017 |
|--|--|
| Rainfall = 59.4 mm. T. Max: 26.7°C, T. Min: 15.1°C, RH: 63-94%, Wind Speed: 5-6 kmph, Wind Direction: SW | Partly cloudy with possibility of light/moderate rainfall in most of the places. Daily maximum and minimum temperature for the following period is predicted to be 25-26°C and 19-20°C respectively. Expected morning and evening relative humidity will be 89-96% and 68-91% respectively. Wind direction is WNW with speed range of 4-5 kmph. |
| Warning: | <ul style="list-style-type: none">Heavy rainfall very likely on 25th April |

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 | Seedling | Stem borer | <ul style="list-style-type: none"> Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field. Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces. Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population Seedling root dip treatment in 0.02% of Chlorpyrifos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm. |
| Maize | Seedling/ Knee height | | <ul style="list-style-type: none"> Sowing of Maize advocated Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field |
| Jhum field | Sowing | | <ul style="list-style-type: none"> Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding. Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing |
| VEGETABLES | | | |
| Pre-summer vegetables | Seedling | Nursery insects | <ul style="list-style-type: none"> Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing |
| HORTICULTURAL CROPS | | | |
| 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. |
| 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 |
| Banana | | | <ul style="list-style-type: none"> Desuckering (removing excess numbers of suckers arising from the mother plant) should be followed |
| Citrus | Flowering/fruiting | Bark eating caterpillar | <ul style="list-style-type: none"> Budding method of propagation (T-budding) to commence in oranges using Rangpur lime as rootstock. Cleaning & smearing of trunk base with Bordeaux paste If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process. Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe. Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion. |
| Ginger/Turmeric | Sowing | | <ul style="list-style-type: none"> Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw Keep selected rhizomes for planting material in partial shade for better sprouting. Mulching materials like forest litters or crop residues should be collected in advance Land preparation to a fine tilth to be done before sowing |

| | | | |
|---|--------------|---|--|
| | | | during sunny days <ul style="list-style-type: none"> Disease free ginger/turmeric rhizome of 30-40 g having atleast 2 eyes to be sown in finely tilth bed of 1m width, 15 cm high and of convenient length at a spacing of 30cm between rows and 25 cm between plants. |
| 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 Provide sugar syrup |
| Agroforestry | | | |
| Toko palm | Nursery | | <ul style="list-style-type: none"> Filling of nursery polybags for raising of takopalm seedlings |
| LIVESTOCKS | | | |
| Livestock | Stage | Disease | Precautionary Practices to be followed |
| Cattle | All stages | FMD | <ul style="list-style-type: none"> 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. |
| Pigs | All stages | FMD (high fever and appearance of mucous membrane of the mouth and foot.) | <ul style="list-style-type: none"> Provide adequate bedding material (paddy straw, rice husk) to newly born piglets. Animals should be given lukewarm feed and water. 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 |
| Poultry | All stages | | <ul style="list-style-type: none"> Give broad-spectrum antihelmintic drugs as per prescribed doses. Follow 'All in All out' system of rearing and do not rear birds of different age groups together. Avoid overcrowding. 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/provide artificial heating and light |
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Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department
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