

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 19<sup>th</sup> to 21<sup>st</sup> April 2017)

ग्रामीण कृषि मौसम सेवा



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

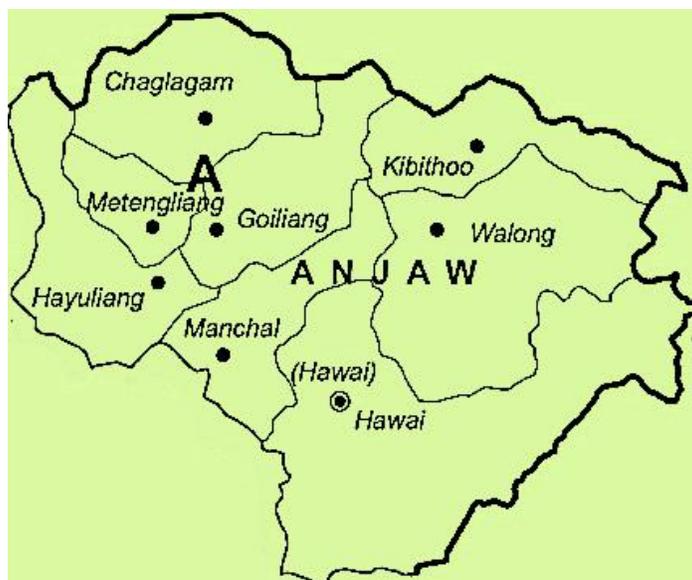


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Anjaw**

No: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



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

Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April 2017
No weather summary available	<b>Variable weather with possibility of moderate rainfall after 20<sup>th</sup> April.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-29°C and 19-21°C respectively. Expected morning and evening relative humidity will be 81-93% and 34-46% respectively. Wind will blow mostly from East at a speed range of 5-7 kmph.
<b>Warning:</b>	<b>• NIL</b>

### 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
<b>FIELD CROPS</b>			
Rice	Nursery/transplantation		<ul style="list-style-type: none"> <li>• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> <li>• Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.</li> <li>• Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population</li> <li>• Seedling root dip treatment in 0.02% of Chlorpyrifos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days</li> <li>• Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm.</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>• Provide proper drainage to already sown crops</li> </ul>
Maize	Sowing		<ul style="list-style-type: none"> <li>• <b>Follow time isolation of at least 15 days for two or more different varieties of maize in Jhum field</b></li> </ul>
<i>Jhum</i> field	Sowing		<ul style="list-style-type: none"> <li>• Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</li> <li>• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> </ul>
<b>VEGETABLES</b>			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> <li>• Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Orchards			<ul style="list-style-type: none"> <li>• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>• Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
Banana			<ul style="list-style-type: none"> <li>• Desuckering (removing excess numbers of suckers arising from the mother plant) should be followed</li> </ul>
Ginger/Turmeric	Sowing		<ul style="list-style-type: none"> <li>• Disease free ginger/turmeric rhizomes of 30-40g having at least 2 eyes to be sown in finely tilled bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> </ul>
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> <li>• Budding method of propagation (T-budding) to commence in oranges using Rangpur lime as rootstock.</li> <li>• Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>• <b>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</b></li> <li>• <b>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</b></li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>• Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>• The duration of primary nursery being 3-4 months.</li> <li>• Provide adequate drainage</li> </ul>
Apple	Vegetative	Woolly aphids	<ul style="list-style-type: none"> <li>• On clear/dry day, swab the stem with mineral oil against woolly aphid.</li> </ul>
<b>AGROFORESTRY</b>			
Toko palm	Nursery		<ul style="list-style-type: none"> <li>• Filling of nursery polybags for raising of takopalm seedlings</li> </ul>

<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>• Keep the houses dry and clean.</li> <li>• 1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision against FMD</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>• Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>• Avoid overcrowding.</li> <li>• Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>• Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>• Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>• Remove wet litter</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• 1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>• Separate sick animals</li> <li>• The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>• Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. Pregnant animals above 7 months of pregnancy should be avoided from vaccination.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 19<sup>th</sup> to 21<sup>st</sup> April 2017)

ग्रामीण कृषि मौसम सेवा



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

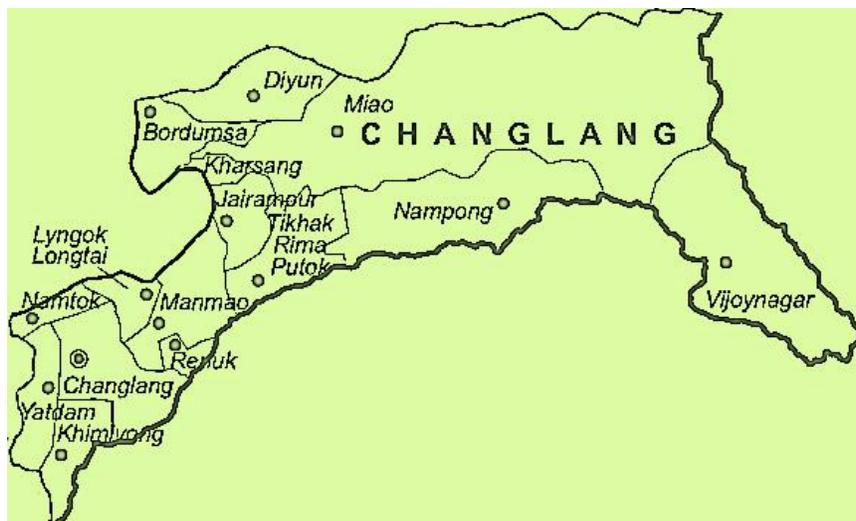


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Changlang**

No: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



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

Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April 2017
Rainfall = Changlang: 0.0 mm Miao: 0.0 mm	<b>Mostly cloudy weather forecasted with light/moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-29°C and 20-23°C respectively. Expected morning and evening relative humidity will be 82-93% and 51-66% respectively. Wind direction is East with speed range of 4 kmph.
<b>Warning</b>	<b>• NIL</b>

### 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
<b>FIELD CROPS</b>			
Rice	Nursery/trans plantation	Stem borer	<ul style="list-style-type: none"> <li>• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> <li>• Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.</li> <li>• Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population</li> <li>• Seedling root dip treatment in 0.02% of Chlorpyrifos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days</li> <li>• Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm.</li> </ul>
Maize	Sowing		<ul style="list-style-type: none"> <li>• Sowing of maize in higher altitudes advocated in raised bed</li> <li>• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing</li> </ul>
<b>VEGETABLES</b>			
Pre-summer vegetables	Sowing		<ul style="list-style-type: none"> <li>• Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>• Provide proper drainage to newly transplanted seedlings and follow raised bed of 15-20cm for sowing</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Orchards			<ul style="list-style-type: none"> <li>• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>• Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> <li>• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>• Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>• Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop</li> <li>• <b>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</b></li> <li>• <b>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</b></li> </ul>
Ginger/Turmeric	Sowing		<ul style="list-style-type: none"> <li>• Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilled bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>• Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>• The duration of primary nursery being 3-4 months.</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>• Box must be covered with straw/dry leaves to provide warmth</li> <li>• Provide sugar syrup</li> </ul>
<b>LIVESTOCKS</b>			
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"> <li>• Keep the houses dry and clean.</li> <li>• 1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>• Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>• Avoid overcrowding.</li> </ul>

			<ul style="list-style-type: none"> <li>• Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>• Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>• Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>• Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• 1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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Contact: - [IAAS.BASAR@gmail.com](mailto: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: 19<sup>th</sup> to 21<sup>st</sup> April 2017)

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GRAMIN KRISHI MAUSAM SEWA

(Integrated Agro-Meteorological Advisory Services)

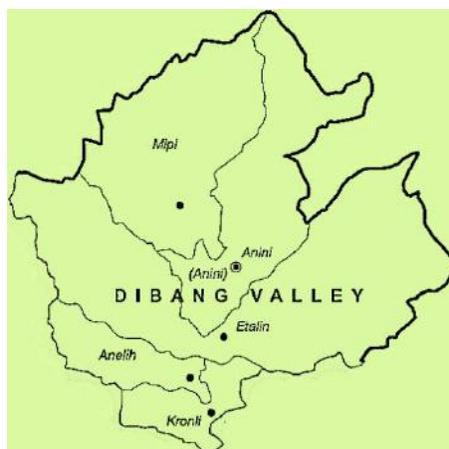


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Dibang Valley**

**No: 31/2017/Tue**

**Dated: 18<sup>th</sup> April, 2017**



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

Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April, 2017
Rainfall = 10.0 mm (Anini)	Variable sky with possibility of moderate rainfall after 20 <sup>th</sup> April. Daily maximum and minimum temperature for the following period is predicted to be 28-30°C and 18-20°C respectively. Expected morning and evening relative humidity will be 82-93% and 28-45% respectively. Wind direction is E with speed range of 4-5 kmph.
<b>Warning:</b>	• NIL

### Weather Based Agro-meteorological Advisories Bulletin

#### General recommendations

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

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

Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>The duration of primary nursery being 3-4 months.</li> </ul>
Apple	Vegetative	Wooly aphids	<ul style="list-style-type: none"> <li>Swab the stem with mineral oil against wooly aphid.</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>In case of rain provide sugar syrup</li> </ul>
<b>LIVESTOCKS</b>			
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"> <li>Animals should be given lukewarm feed and water.</li> <li>Keep the houses dry and clean.</li> <li>1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Avoid overcrowding.</li> <li>Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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Contact: - [IAAS.BASAR@gmail.com](mailto: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: 19<sup>th</sup> to 21<sup>st</sup> April 2017)

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(Integrated Agro-Meteorological Advisory Services)



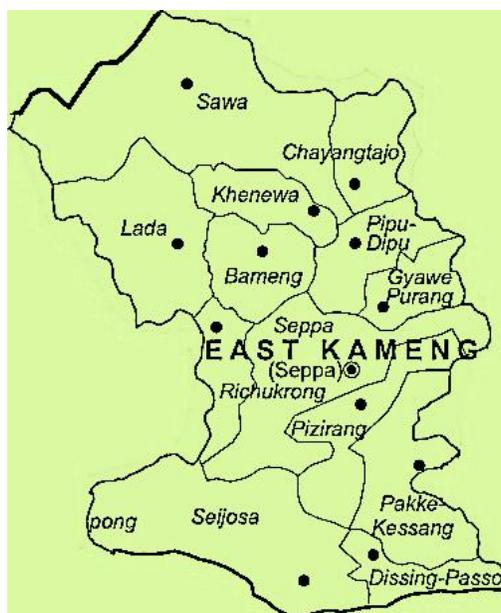
भा.क.अनु.प. - पू.प.सं.  
ICAR - RCNEH

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

### District: East Kameng

No: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April 2017
Rainfall = 0.0 mm	Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 21-23°C and 12-14°C respectively. Expected morning and evening relative humidity will be 62-92% and 27-65% respectively. Expected wind direction is SE & NE with speed range of 3-5 kmph.
<b>Warning:</b>	• NIL

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

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

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Rice	Nursery/transplantation	Stem borer	<ul style="list-style-type: none"> <li>• Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> <li>• Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.</li> <li>• Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population</li> <li>• Seedling root dip treatment in 0.02% of Chlorpyrifos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days</li> <li>• Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm.</li> </ul>
Maize	Sowing		<ul style="list-style-type: none"> <li>• Sowing of Maize advocated</li> <li>• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing</li> <li>• <b>Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field</b></li> </ul>
Jhum field	Sowing		<ul style="list-style-type: none"> <li>• Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>• Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> <li>• Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing</li> </ul>
<b>VEGETABLES</b>			
Pre-summer vegetables	Sowing		<ul style="list-style-type: none"> <li>• Sowing of pre-summer vegetables like okra, frenchbean can be done</li> <li>• Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>• Provide drainage to newly transplanted seedlings</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Orchards			<ul style="list-style-type: none"> <li>• Prepare half moon terraces in fruit crops (orange/banana/apple/peach) grown in steep slopes to prevent nutrient loss during heavy downpour.</li> <li>• Follow proper drainage and earthing up practices in low land/plain areas to avoid water stagnation in fruit orchards</li> </ul>
Ginger/Turmeric	Sowing		<ul style="list-style-type: none"> <li>• Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilled bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> </ul>
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> <li>• Budding method of propagation (T-budding) to commence in oranges using Rangpur lime as rootstock.</li> <li>• Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>• If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>• Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop</li> <li>• <b>For bark eating caterpillar, remove wooden frass and inject Dichlorvos (0.1%) @ 5ml with disposable syringe.</b></li> <li>• <b>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</b></li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>• Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> </ul>

			<ul style="list-style-type: none"> <li>The duration of primary nursery being 3-4 months.</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>Animals should be given lukewarm feed and water.</li> <li>Keep the houses dry and clean.</li> <li>1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Avoid overcrowding.</li> <li>Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ Day old chick: HVT Marek disease vaccine, 4-7 days:</li> <li>F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days:</li> <li>F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.</li> </ul> </li> <li>Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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**Agrometeorological Field Unit  
ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 19<sup>th</sup> to 21<sup>st</sup> 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: East Siang**

No: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



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

Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April 2017
Rainfall: 5.0 mm; T. Max: 32.0°C; T. Min: 19.0°C ; RH: 62-94%	<b>Mostly cloudy with possibility of moderate rainfall after 20<sup>th</sup> April.</b> Daily maximum and minimum temperature for the following period is predicted to be 28-29°C and 20-22°C respectively. Expected morning and evening relative humidity will be 68-91% and 34-70% respectively. Expected wind direction is West with speed range of 2-6 kmph.
<b>Warning:</b>	<b>• NIL</b>

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

			<ul style="list-style-type: none"> <li>be collected in advance</li> <li>Land preparation to a fine tilth to be done before sowing during sunny days</li> <li>Avoid sowing of Ginger/Turmeric during rainy days</li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>The duration of primary nursery being 3-4 months.</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>On prolong rain, provide sugar syrup</li> </ul>
<b>LIVESTOCKS</b>			
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"> <li>1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>Give broad-spectrum antihelmintic drugs as per prescribed doses.</li> <li>Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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**Agrometeorological Field Unit  
ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 19<sup>th</sup> to 21<sup>st</sup> 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: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



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

Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April 2016
Past weather summary not available	<b>Variable weather with possibility of light rainfall after 22<sup>nd</sup> April.</b> Daily maximum and minimum temperature for the following period is predicted to be 29-30°C and 20-22°C respectively. Expected morning and evening relative humidity will be 60-92% and 28-73% respectively. Wind direction is West and East with speed range of 2-4 kmph.
Warning	• <b>NIL</b>

### 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
<b>FIELD CROPS</b>			
Rice	Nursery/transplantation	Stem borer	<ul style="list-style-type: none"> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> <li>Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It will reduce the carryover of the infestation to the main field.</li> <li>Careful timing of planting can avoid damage; once the tillering stage is over, attack of some insects reduces.</li> <li>Follow clean cultivation, presence of grasses near the rice crop favors build-up of pest population</li> <li>Seedling root dip treatment in 0.02% of Chlorpyrifos 20EC for 12 hours before transplanting protects the crop for 20 to 30 days</li> <li>Avoid closer spacing while transplantation which creates favorable microclimate for pests in the field. Follow wider spacing of 20X15cm.</li> </ul>
Maize	Sowing		<ul style="list-style-type: none"> <li>Sowing of Maize advocated</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing</li> <li><b>Follow time isolation of atleast 15 days for two or more different varieties of maize in Jhum field</b></li> </ul>
<i>Jhum</i> field	Sowing		<ul style="list-style-type: none"> <li>Adopt sowing of leguminous crops like cowpea, frenchbean, soybean etc at 2-3 rows across the slope of jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility.</li> <li>Cowpea variety (Kashi Kanchan) and Frenchbean variety (Selection-9) are advocated for intercropping as they are short duration, dwarf and high yielding.</li> <li>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing</li> </ul>
Pea	Sowing		<ul style="list-style-type: none"> <li>Sowing of pea recommended for higher altitudes <b>with raised bed of 15-20cm</b></li> <li>Provide proper drainage to already sown crops</li> </ul>
<b>VEGETABLES</b>			
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> <li>Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha against nursery insects</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>Cleaning &amp; smearing of trunk base with Bordeaux paste</li> <li>If flowering begins, avoid spray of insecticides/ pesticides as it may affect pollination process.</li> <li>Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop</li> <li><b>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</b></li> <li><b>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</b></li> </ul>
Ginger/Turmeric	Sowing		<ul style="list-style-type: none"> <li>Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilled bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> </ul>

			<ul style="list-style-type: none"> <li>The duration of primary nursery being 3-4 months.</li> </ul>
Apple	Vegetative	Woolly aphids	<ul style="list-style-type: none"> <li>Swab the stem with mineral oil against woolly aphid.</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>Honey Bees</b>			
			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>Provide adequate bedding material (paddy straw, rice husk) to newly born piglets.</li> <li>Animals should be given lukewarm feed and water.</li> <li>All animals should be tethered in a covered shelter. Keep the houses dry and clean.</li> <li>1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Avoid overcrowding.</li> <li>Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 19<sup>th</sup> to 21<sup>st</sup> April 2017)

ग्रामीण कृषि मौसम सेवा



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

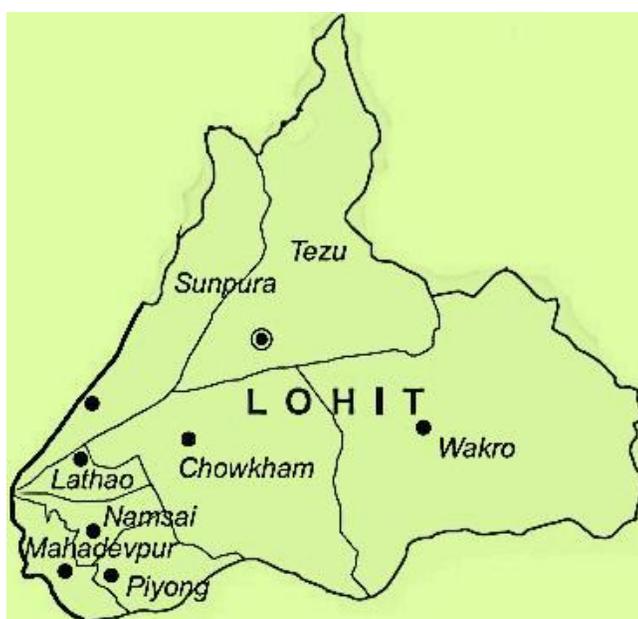


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Lohit**

No: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April, 2017
Rainfall =0.0 mm (Tezu)	Mostly cloudy weather with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 26-28°C and 19-20°C respectively. Expected morning and evening relative humidity will be 81-93% and 43-56% respectively. Wind direction is East with speed range of 4-5 kmph.
<b>Warning:</b>	• <b>NIL</b>

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

			2 eyes to be sown in finely tilled 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"> <li>• Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>• The duration of primary nursery being 3-4 months.</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>• Provide sugar syrup near the box</li> <li>• Add insulation and ventilation systems</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>• Animals should be given lukewarm feed and water.</li> <li>• Keep the houses dry and clean.</li> <li>• 1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>• Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>• Avoid overcrowding.</li> <li>• Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>• Give broad-spectrum antihelmintic drugs as per prescribed doses.</li> <li>• Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>• Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>• Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• 1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>• Separate sick animals</li> <li>• The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>• Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department  
Contact: - [IAAS.BASAR@gmail.com](mailto: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: 19<sup>th</sup> to 21<sup>st</sup> April 2017)

ग्रामीण कृषि मौसम सेवा



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

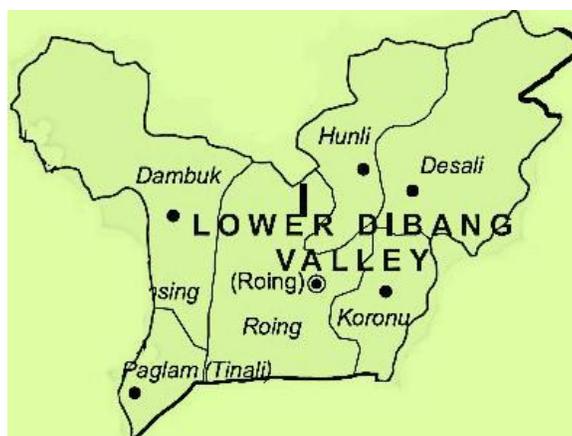


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Lower Dibang Valley**

No: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



Weather summary of the previous week	Weather forecast valid up to 18 <sup>th</sup> April, 2017
Rainfall = 38.8 mm (Roing)	<b>Variable weather with possibility of moderate rainfall after 20<sup>th</sup> April.</b> Daily maximum and minimum temperature for the following period is predicted to be 28-30°C and 19-20°C respectively. Expected morning and evening relative humidity will be 72-91% and 28-46% respectively. Wind direction is East with speed range of 4-5 kmph.
<b>Warning:</b>	• NIL

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

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

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

			<ul style="list-style-type: none"> <li>may affect pollination process.</li> <li>Spray (Planofix) NAA based growth regulator @2m/5lit water during flowering stage in orange plant to reduce fruit/flower drop</li> <li><b>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</b></li> <li><b>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</b></li> </ul>
Ginger/Turmeric	Sowing		<ul style="list-style-type: none"> <li>Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw</li> <li>Keep selected rhizomes for planting material in partial shade for better sprouting.</li> <li>Mulching materials like forest litters or crop residues should be collected in advance</li> <li>Land preparation to a fine tilth to be done before sowing during sunny days</li> <li>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.</li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>The duration of primary nursery being 3-4 months.</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>Animals should be given lukewarm feed and water.</li> <li>Keep the houses dry and clean.</li> <li>1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Give broad-spectrum antihelmintic drugs as per prescribed doses.</li> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Avoid overcrowding.</li> <li>Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>Remove wet litter/provide artificial heating and light</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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



# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 19<sup>th</sup> to 21<sup>st</sup> 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: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April 2017
Rainfall = 0.0 mm (Ziro)	Mostly cloudy with possibility of light rainfall. Daily maximum and minimum temperature for the following period is predicted to be 28-30°C and 20-22°C respectively. Expected morning and evening relative humidity will be 70-94% and 32-74% respectively. Wind direction is WSW & ESE with speed range of 2-4 kmph.
<b>Warning:</b>	• NIL

### Weather Based Agro-meteorological Advisories Bulletin

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

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

			<ul style="list-style-type: none"> <li>Mulching materials like forest litters or crop residues should be collected in advance</li> <li>Land preparation to a fine tilth to be done before sowing during sunny days</li> <li>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.</li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>Timely/regular removal of extra suckers, dry leaves &amp; pseudo-stem</li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>The duration of primary nursery being 3-4 months.</li> </ul>
Kiwi	Planting		<ul style="list-style-type: none"> <li>Pit size: 60cmX60cmX60cm</li> <li>Spacing: 6mX4m (Plant to plant and row to row)</li> <li>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.</li> <li>Pit filling: mixture of top soil, 20-30kg FYM along with chloropyriphos@25-30g/pit (to avoid insect damage)</li> </ul>
Apple	Vegetative	Wooly aphids	<ul style="list-style-type: none"> <li>Swab the stem with mineral oil against wooly aphid.</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>Animals should be given lukewarm feed and water.</li> <li>Keep the houses dry and clean.</li> <li>1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Give broad-spectrum antihelmintic drugs as per prescribed doses.</li> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Avoid overcrowding.</li> <li>Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

**Agrometeorological Field Unit  
ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 19<sup>th</sup> to 21<sup>st</sup> 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: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April 2017
Rainfall: 2.6 mm; T. Max: 35.0°C; T. Min: 17.0°C ; RH: 51-78%	<b>Mostly cloudy weather with possibility light rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 29-32°C and 21-22°C respectively. Expected morning and evening relative humidity will be 70-90% and 31-53% respectively. Expected wind direction is E with speed range of 2-4 kmph.
<b>Warning:</b>	<b>• NIL</b>

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

			<ul style="list-style-type: none"> <li>Land preparation to a fine tilth to be done before sowing during sunny days</li> <li>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.</li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>The duration of primary nursery being 3-4 months.</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Give broad-spectrum antihelmintic drugs as per prescribed doses.</li> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Avoid overcrowding.</li> <li>Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department  
Contact: - [IAAS.BASAR@gmail.com](mailto: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: 14<sup>th</sup> to 18<sup>th</sup> 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: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April 2017
Rainfall = 17.0 mm	Mostly cloudy weather with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 18-20°C and 9-10°C respectively. Expected morning and evening relative humidity will be 57-91% and 24-58% respectively. Wind direction is variable with probable speed range of 2-4 kmph.
<b>Warning:</b>	• NIL

### Weather Based Agro-meteorological Advisories Bulletin

#### General Recommendations

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

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

			<ul style="list-style-type: none"> <li>The duration of primary nursery being 3-4 months.</li> </ul>
Apple	Vegetative	Wooly aphids	<ul style="list-style-type: none"> <li>Swab the stem with mineral oil against wooly aphid.</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Provide sugar syrup near the box</li> <li>Add insulation and ventilation systems</li> </ul>
<b>LIVESTOCKS</b>			
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"> <li>Animals should be given lukewarm feed and water.</li> <li>Keep the houses dry and clean.</li> <li>1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Give broad-spectrum antihelmintic drugs as per prescribed doses.</li> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Avoid overcrowding.</li> <li>Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>Best time to prepare the culture pond like cleaning aquatic weeds.</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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**Agrometeorological Field Unit  
ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 19<sup>th</sup> to 21<sup>st</sup> 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: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April, 2017
Rainfall = 3.0 mm (Deomali)	Mostly cloudy with possibility of light rainfall on 20 <sup>th</sup> & 21 <sup>st</sup> April. Daily maximum and minimum temperature for the following period is predicted to be 27-30°C and 21-22°C respectively. Expected morning and evening relative humidity will be 85-94% and 54-68% respectively. Wind direction is SE with speed range of 2 kmph.
<b>Warning:</b>	• NIL

### Weather Based Agro-meteorological Advisories Bulletin

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

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

			<ul style="list-style-type: none"> <li>• Keep selected rhizomes for planting material in partial shade for better sprouting.</li> <li>• Mulching materials like forest litters or crop residues should be collected in advance</li> <li>• Land preparation to a fine tilth to be done before sowing during sunny days</li> <li>• 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.</li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>• Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>• The duration of primary nursery being 3-4 months.</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>Honey Bees</b>			
			<ul style="list-style-type: none"> <li>• Box must be covered with straw/dry leaves to provide warmth</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>• Keep the houses dry and clean.</li> <li>• 1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>• Give broad-spectrum antihelmintic drugs as per prescribed doses.</li> <li>• Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>• Avoid overcrowding.</li> <li>• Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>• Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>• Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>• Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• 1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>• Separate sick animals</li> <li>• The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>• Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>• Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

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**Agrometeorological Field Unit**  
**ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 19<sup>th</sup> to 21<sup>st</sup> 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: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April, 2017
Rainfall = 0.0 mm (Tuting)	<b>Variable sky with possibility of light/moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 28-29°C and 19-20°C respectively. Expected morning and evening relative humidity will be 63-87% and 27-53% respectively. Wind direction is S & ESE with speed range of 2-5 kmph.
<b>Warning:</b>	• <b>NIL</b>

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

			<p><b>inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</b></p> <ul style="list-style-type: none"> <li>• <b>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</b></li> </ul>
Ginger/Turmeric	Sowing		<ul style="list-style-type: none"> <li>• Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw</li> <li>• Keep selected rhizomes for planting material in partial shade for better sprouting.</li> <li>• Mulching materials like forest litters or crop residues should be collected in advance</li> <li>• Land preparation to a fine tilth to be done before sowing during sunny days</li> <li>• 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.</li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>• Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>• The duration of primary nursery being 3-4 months.</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>• Box must be covered with straw/dry leaves to provide warmth</li> <li>• Provide sugar syrup</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>• Animals should be given lukewarm feed and water.</li> <li>• Keep the houses dry and clean.</li> <li>• 1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>• Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>• Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>• Avoid overcrowding.</li> <li>• Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>• Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>• Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>• Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• 1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>• Separate sick animals</li> <li>• The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>• Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>• Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

**Agrometeorological Field Unit  
ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 19<sup>th</sup> to 21<sup>st</sup> April 2017)

ग्रामीण कृषि मौसम सेवा



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



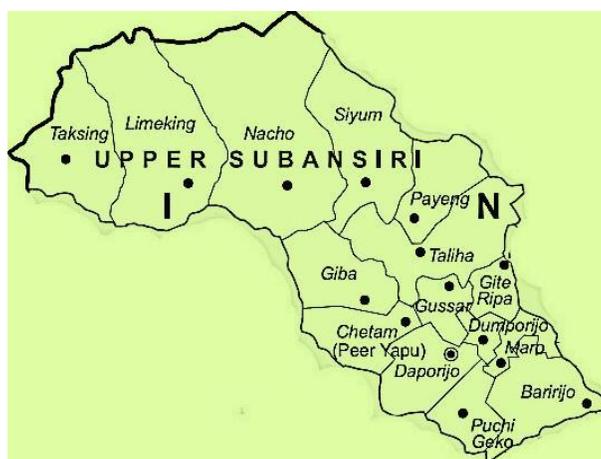
भा.क.अनु.प. - पू.प.सं.  
ICAR - RCNEH

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

**District: Upper Subansiri**

No: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April 2017
Rainfall = 0.0 mm (Puchi Geko); Daporjo: 0.0 mm	<b>Mostly cloudy with possibility of light rainfall in most of the places.</b> Daily maximum and minimum temperature for the following period is predicted to be 28-30°C and 19-21°C respectively. Expected morning and evening relative humidity will be 83-93% and 41-76% respectively. Expected wind direction is variable with speed range of 2 kmph.
<b>Warning</b>	<b>NIL</b>

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

			<p><b>inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</b></p> <ul style="list-style-type: none"> <li>• <b>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</b></li> </ul>
Ginger/Turmeric	Sowing		<ul style="list-style-type: none"> <li>• Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw</li> <li>• Keep selected rhizomes for planting material in partial shade for better sprouting.</li> <li>• Mulching materials like forest litters or crop residues should be collected in advance</li> <li>• Land preparation to a fine tilth to be done before sowing during sunny days</li> <li>• 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.</li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>• Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>• The duration of primary nursery being 3-4 months.</li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>• Timely/regular removal of extra suckers, dry leaves &amp; pseudo-stem</li> </ul>
Apple	Vegetative	Wooly aphids	<ul style="list-style-type: none"> <li>• Swab the stem with mineral oil against wooly aphid.</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		Filling of nursery polybags for raising of takopalm seedlings
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>• Provide sugar syrup near the box</li> <li>• Add insulation and ventilation systems</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• 1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>• Separate sick animals</li> <li>• The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>• Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>• Provide adequate bedding material (paddy straw, rice husk) to newly born piglets.</li> <li>• Animals should be given lukewarm feed and water.</li> <li>• All animals should be tethered in a covered shelter. Keep the houses dry and clean.</li> <li>• 1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>• Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>• Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>• Avoid overcrowding.</li> <li>• Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>• Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>• Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>• Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>• 1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>• Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> </ul>

- |  |  |  |   |
|--|--|--|---|
|  |  |  | <ul style="list-style-type: none"><li>• Pregnant animals above 7 months of pregnancy should be avoided.</li></ul> |
|--|--|--|---|

**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](mailto: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: 19<sup>th</sup> to 21<sup>st</sup> 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: 31/2017/Tue

Dated: 18<sup>th</sup> April, 2017



Weather summary of the previous week	Weather forecast valid up to 23 <sup>rd</sup> April 2017
Rainfall = Bomdila: 0.0 mm; Bhalukpong: 0.0 mm	<b>Mostly cloudy weather with possibility of light/moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 21-22°C and 15-16°C respectively. Expected morning and evening relative humidity will be 61-92% and 26-58% respectively. Wind direction is variable with speed range of 2-4 kmph.
<b>Warning:</b>	<b>• NIL</b>

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

			<ul style="list-style-type: none"> <li>Land preparation to a fine tilth to be done before sowing during sunny days</li> <li>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.</li> </ul>
Cole crops	Nursery		<ul style="list-style-type: none"> <li>Raising nursery can be carried out in higher altitudes/ cold areas</li> </ul>
Pre-summer vegetables	Sowing	Nursery insects	<ul style="list-style-type: none"> <li>Sowing of pre-summer vegetables like okra, frenchbean etc advocated, avoid during rainy days</li> <li><b>Carry out seed dressing/treatment with Thiram or Carbendazim @ 2g/kg seed before sowing.</b></li> <li>Right time for transplanting the ready seedlings of chili, tomato, capsicum etc.</li> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing</li> <li>Spray Azadirachtin 1% (10000 PPM) @ 1000-1500 ml in 500 litres water/ha</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>The duration of primary nursery being 3-4 months.</li> </ul>
Apple	Vegetative	Wooly aphids	<ul style="list-style-type: none"> <li>Swab the stem with mineral oil against wooly aphid.</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Provide sugar syrup near the box</li> <li>Add insulation and ventilation systems</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>Animals should be given lukewarm feed and water.</li> <li>Keep the houses dry and clean.</li> <li>1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Avoid overcrowding.</li> <li>Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			

Contact: - [IAAS.BASAR@gmail.com](mailto: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: 19<sup>th</sup> to 21<sup>st</sup> April 2017)

ग्रामीण कृषि मौसम सेवा



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

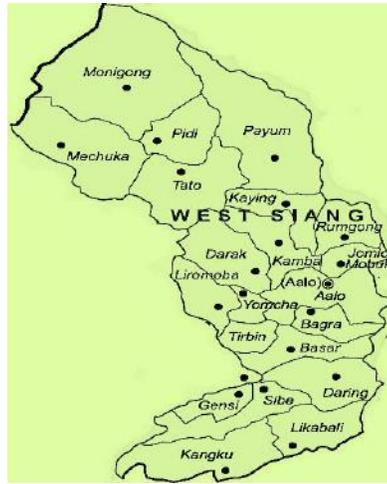


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: West Siang**

No: 31/2017/Tue

Dated: 18<sup>th</sup> 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 23 <sup>rd</sup> April 2017
Rainfall = 13.6 mm. T. Max: 27.8°C, T. Min: 12.9°C, RH: 33-96%, Wind Speed: 4-6 kmph, Wind Direction: WSW	<b>Mostly cloudy with possibility of light/moderate rainfall in most of the places.</b> Daily maximum and minimum temperature for the following period is predicted to be 28-30°C and 19-21°C respectively. Expected morning and evening relative humidity will be 79-92% and 38-68% respectively. Wind direction is SW & WNW with speed range of 2-3 kmph.
<b>Warning:</b>	<b>• NIL</b>

## 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
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- ICAR Basar recommend poultry variety VANARAJA for backyard rearing

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

Ginger/Turmeric	Sowing		<ul style="list-style-type: none"> <li>Identify healthy plants for seed rhizomes/ collect better seedlings from ICAR Basar or KVK West Siang/Anjaw</li> <li>Keep selected rhizomes for planting material in partial shade for better sprouting.</li> <li>Mulching materials like forest litters or crop residues should be collected in advance</li> <li>Land preparation to a fine tilth to be done before sowing during sunny days</li> <li>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.</li> </ul>
Large Cardamom	Sowing		<ul style="list-style-type: none"> <li>Should be sown in Primary nursery bed at 2cm deep and 10 cm apart followed by mulching &amp; regular light irrigation.</li> <li>The duration of primary nursery being 3-4 months.</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>Box must be covered with straw/dry leaves to provide warmth</li> <li>Provide sugar syrup</li> </ul>
<b>Agroforestry</b>			
Toko palm	Nursery		<ul style="list-style-type: none"> <li>Filling of nursery polybags for raising of takopalm seedlings</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2<sup>nd</sup> injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision</li> <li>Separate sick animals</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO<sub>4</sub>) or neem leaves</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.)	<ul style="list-style-type: none"> <li>Provide adequate bedding material (paddy straw, rice husk) to newly born piglets.</li> <li>Animals should be given lukewarm feed and water.</li> <li>Keep the houses dry and clean.</li> <li>1<sup>st</sup> injection at 6 months of age and 2<sup>nd</sup> injection at 12 months of age followed by annual vaccination under vet supervision</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>Give broad-spectrum antihelmintic drugs as per prescribed doses.</li> <li>Follow 'All in All out' system of rearing and do not rear birds of different age groups together.</li> <li>Avoid overcrowding.</li> <li>Provide adequate clean drinking water+electrolyte and multi-vitamins</li> <li>Vaccination as per the schedule with proper consultation with vet. <ul style="list-style-type: none"> <li>➤ 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.</li> </ul> </li> <li>Remove wet litter/provide artificial heating and light</li> </ul>
Fishery			<ul style="list-style-type: none"> <li>Best time to prepare the culture pond like cleaning aquatic weeds</li> </ul>
Mithun		FMD	<ul style="list-style-type: none"> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
<b>Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247</b>			