

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 10<sup>th</sup> to 12<sup>th</sup> May 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: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



| Weather summary of the previous week | Weather forecast valid up to 14 <sup>th</sup> May, 2017   |
|--------------------------------------|---|
| Rainfall = 103.1 mm (Roing)          | <b>Partly cloudy weather with possibility of moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 18-24°C and 13-15°C respectively. Expected morning and evening relative humidity will be 71-92% and 32-46% respectively. Wind direction is mainly E & ENE with speed range of 3-6 kmph. |
| <b>Warning:</b>                      | <b>• Rain/thundershowers are likely in few places</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>         |                      |                         |   |
| Finger millet              | Sowing               |                         | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>   |
| Rice                       | Seedling             | Stem borer              | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</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> </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>          |                      |                         |   |
| Pre-summer vegetables      | Seedling             |                         | <ul style="list-style-type: none"> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li><b>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</b></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>  |
| <b>HORTICULTURAL CROPS</b> |                      |                         |   |
| Ginger/Turmeric            | Sowing/germination   |                         | <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> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</b></li> </ul>  |
| Banana                     | Vegetative           |                         | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>   |
| 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 / Fruiting | Bark eating caterpillar | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scab in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.</li> <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>   |

| <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)

**Agrometeorological Field Unit  
ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 10<sup>th</sup> to 12<sup>th</sup> May 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: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



| Weather summary of the previous week | Weather forecast valid up to 14 <sup>th</sup> May 2017  |
|--------------------------------------|---|
| Rainfall = 0.0 mm (Ziro)             | Mostly cloudy with possibility of light/moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 18-23°C and 13-15°C respectively. Expected morning and evening relative humidity will be 85-95% and 47-60% respectively. Wind direction is mainly SW with speed range of 2-4 kmph. |
| <b>Warning:</b>                      | <b>• Rain/thundershowers are likely in few places</b>   |

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- 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
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- 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>         |                        |                          |   |
| Finger millet              | Sowing                 |                          | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</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>  |
| Rice                       | Seedling               | Stem borer               | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</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>On clear/dry weather or using sticker (@1ml/lit), spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> </ul>   |
| Maize                      | Sowing/<br>Seedling    |                          | <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>          |                        |                          |   |
| Pre-summer vegetables      | Seedling               |                          | <ul style="list-style-type: none"> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li><b>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</b></li> </ul>  |
| <b>HORTICULTURAL CROPS</b> |                        |                          |   |
| Ginger/Turmeric            | Sowing/<br>germination |                          | <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> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</b></li> </ul>  |
| Citrus                     | Fruiting               | Bark eating caterpillar/ | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scab in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.</li> <li>Budding method of propagation (T-budding) to commence in oranges using Rangpur lime as rootstock.</li> <li><b>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</b></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> |
| Banana                     | Vegetative             |                          | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>   |
| 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>   |

|   |              |   |  |
|---|--------------|---|--|
| 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> |
| 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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(Integrated Agro-Meteorological Advisory Services)



भा.क.अ.पु. - पू.प.सं.  
ICAR - RCNEH

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

**District: Papum Pare**

No: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



| Weather summary of the previous week                           | Weather forecast valid up to 14 <sup>th</sup> May 2017   |
|--|--|
| Rainfall: 13.2 mm; T. Max: 34.0°C; T. Min: 18.0°C ; RH: 62-91% | <b>Mostly clear/dry weather forecasted.</b> Daily maximum and minimum temperature for the following period is predicted to be 32-33°C and 21-22°C respectively. Expected morning and evening relative humidity will be 80-93% and 42-49% respectively. Expected wind direction is variable with speed range of 2 kmph. |
| <b>Warning:</b>  | <b>• Rain/thundershowers are likely in few places</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
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| Crop | Stage | Pest/Disease | Precautionary Practices to be followed |
|------|-------|--------------|--|
|------|-------|--------------|--|

| FIELD CROPS           |                    |                          |  |
|-----------------------|--------------------|--------------------------|--|
| Finger millet         | Sowing             |                          | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>  |
| Rice                  | Seedling           | Stem borer               | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</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>On clear/dry weather or using sticker (@1ml/lit), spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</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>   |
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| 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>  |
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| Agroforestry          |                    |                          |  |
| Toko palm             | Nursery            |                          | Filling of nursery polybags for raising of takopalm seedlings  |
| Honey Bees            |                    |                          |  |

| 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> |
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**Agrometeorological Field Unit  
ICAR. BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 10<sup>th</sup> to 12<sup>th</sup> May 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: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



| Weather summary of the previous week | Weather forecast valid up to 14 <sup>th</sup> May 2017   |
|--------------------------------------|--|
| Rainfall = 21.0 mm                   | Mostly cloudy with possibility of moderate/rather heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 13-16°C and 6-8°C respectively. Expected morning and evening relative humidity will be 75-91% and 48-62% respectively. Wind direction is mostly ENE & E with probable speed range of 2-6 kmph. |
| <b>Warning:</b>                      | <b>• Rain/thundershowers are likely in few places</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
- 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>         |                     |                          |  |
| Finger millet              | Sowing              |                          | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>  |
| Rice                       | Seedling            | Stem borer               | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize</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>On clear/dry weather or using sticker (@1ml/lit), spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> </ul>   |
| Maize                      | Sowing/<br>Seedling |                          | <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      | Seedling            |                          | <ul style="list-style-type: none"> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li><b>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</b></li> </ul>   |
| <b>HORTICULTURAL CROPS</b> |                     |                          |  |
| Citrus                     | Fruiting            | Bark eating caterpillar/ | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li><b>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</b></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> |
| 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                     | Vegetative          |                          | <ul style="list-style-type: none"> <li>Desuckering (removing excess numbers of suckers arising from the mother plant) should be followed</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>• 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>• 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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ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 10<sup>th</sup> to 12<sup>th</sup> May 2017)

ग्रामीण कृषि मौसम सेवा



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

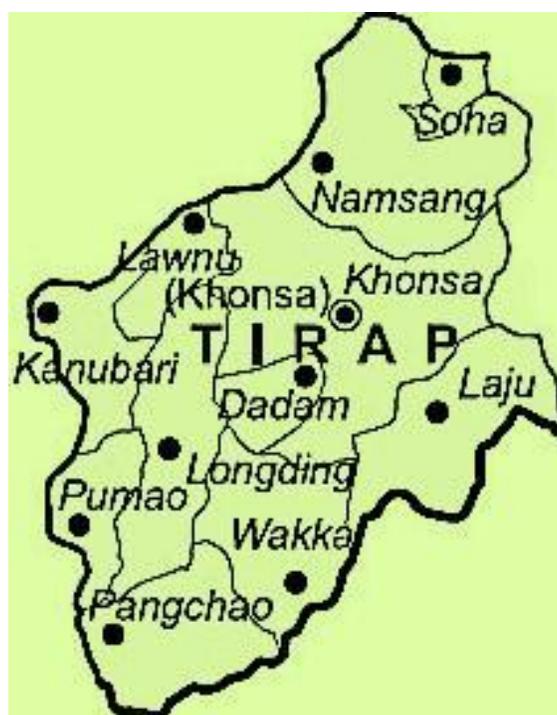


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Tirap**

No: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



| Weather summary of the previous week | Weather forecast valid up to 14 <sup>th</sup> May, 2017   |
|--------------------------------------|---|
| Rainfall = 33.0 mm (Deomali)         | Partly cloudy with no rainfall except light rainfall on 11 <sup>th</sup> May in some places. Daily maximum and minimum temperature for the following period is predicted to be 31-32°C and 21-24°C respectively. Expected morning and evening relative humidity will be 86-95% and 54-63% respectively. Wind direction is mainly SW and WSW with speed range of 2 kmph. |
| <b>Warning:</b>                      | <b>• Rain/thundershowers are likely in few places</b>   |

### 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>         |                    |                         |   |
| Finger millet              | Sowing             |                         | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>   |
| Rice                       | Seedling           | Stem borer              | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize</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/Seedling    |                         | <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      | Seedling           |                         | <ul style="list-style-type: none"> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li><b>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</b></li> </ul>  |
| <b>HORTICULTURAL CROPS</b> |                    |                         |   |
| Banana                     | Vegetative         |                         | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>   |
| 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/fruiting | Bark eating caterpillar | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain</li> <li>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> <li>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</li> </ul>  |
| Ginger/Turmeric            | Sowing/germination |                         | <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> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</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>  |
|---|------------|---|--|
| <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>   |            |   |  |
| 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>• 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:</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> <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>   |
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# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 10<sup>th</sup> to 12<sup>th</sup> May 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: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



| Weather summary of the previous week | Weather forecast valid up to 14 <sup>th</sup> May, 2017   |
|--------------------------------------|---|
| Rainfall = 0.0 mm (Tuting)           | <b>Partly cloudy sky with possibility of light/moderate rainfall.</b><br>Daily maximum and minimum temperature for the following period is predicted to be 28-31°C and 19-21°C respectively. Expected morning and evening relative humidity will be 68-86% and 37-49% respectively. Wind direction is mainly SE with speed range of 2-5 kmph. |
| <b>Warning:</b>                      | <b>• Rain/thundershowers are likely in few places</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>         |                        |                          |  |
| Finger millet              | Sowing                 |                          | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>  |
| Rice                       | Seedling               | Stem borer               | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</li> <li>On clear/dry weather or using sticker (@1ml/lit), 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> </ul>  |
| Pea                        | Sowing/<br>Seedling    |                          | <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      | Seedling               |                          | <ul style="list-style-type: none"> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing.</li> <li><b>On clear day spray Boom (organic liquid manure) @4ml/lit of water in all vegetables for proper growth and development.</b></li> </ul>   |
| <b>HORTICULTURAL CROPS</b> |                        |                          |  |
| Citrus                     | Fruiting               | Bark eating caterpillar/ | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li><b>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</b></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> |
| Banana                     | Vegetative             |                          | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>  |
| 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/<br>germination |                          | <ul style="list-style-type: none"> <li>Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</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>  |

| <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> |              |   |  |

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: 10<sup>th</sup> to 12<sup>th</sup> May 2017)

ग्रामीण कृषि मौसम सेवा



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

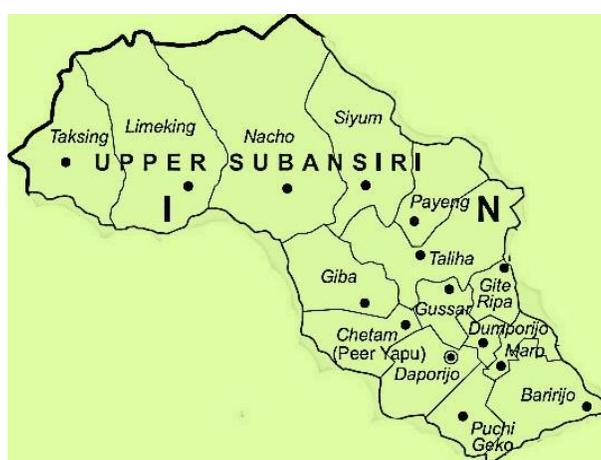


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Upper Subansiri**

No: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



| Weather summary of the previous week             | Weather forecast valid up to 10 <sup>th</sup> May 2017  |
|--|---|
| Rainfall = 0.0 mm (Puchi Geko); Daporjo: 27.4 mm | <b>Partly cloudy with possibility of light/moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 13-16°C and 9-10°C respectively. Expected morning and evening relative humidity will be 89-94% and 53-61% respectively. Expected wind direction is SW & WSW with speed range of 3-4 kmph. |
| <b>Warning</b>                                   | <b>• Rain/thundershowers are likely in few places</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>         |                        |                          |  |
| Finger millet              | Sowing                 |                          | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>  |
| Rice                       | Seedling               | 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> </ul>   |
| Maize                      | Sowing/<br>Seedling    |                          | <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      | Seedling               |                          | <ul style="list-style-type: none"> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing.</li> <li><b>On clear day spray Boom (organic liquid manure) @4ml/lit of water in all vegetables for proper growth and development.</b></li> </ul>   |
| <b>HORTICULTURAL CROPS</b> |                        |                          |  |
| Banana                     | Vegetative             |                          | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>  |
| Citrus                     | Fruiting               | Bark eating caterpillar/ | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain</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>   |
| 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/<br>germination |                          | <ul style="list-style-type: none"> <li>Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</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>  |
| 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> <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: 10<sup>th</sup> to 12<sup>th</sup> May 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: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



| Weather summary of the previous week            | Weather forecast valid up to 10 <sup>th</sup> May 2017  |
|---|---|
| Rainfall = Bomdila: 0.0 mm; Bhalukpong: 16.8 mm | <b>Mostly cloudy with possibility of moderate/heavy rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 13-16°C and 9-10°C respectively. Expected morning and evening relative humidity will be 74-93% and 44-58% respectively. Wind direction is mainly NNE & NE with speed range of 2-6 kmph. |
| <b>Warning:</b>                                 | <b>• Rain/thundershowers are likely in few places</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>         |                        |                          |  |
| Finger millet              | Sowing                 |                          | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>  |
| Rice                       | Seedling               | Stem borer               | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</li> <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> </ul>  |
| Maize                      | Sowing/<br>Seedling    |                          | <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      | Seedling               |                          | <ul style="list-style-type: none"> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing.</li> <li><b>On clear day spray Boom (organic liquid manure) @4ml/lit of water in all vegetables for proper growth and development.</b></li> </ul>   |
| <b>HORTICULTURAL CROPS</b> |                        |                          |  |
| Citrus                     | Fruiting               | Bark eating caterpillar/ | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li><b>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>  |
| Banana                     | Vegetative             |                          | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>  |
| Ginger/Turmeric            | Sowing/<br>germination |                          | <ul style="list-style-type: none"> <li>Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</b></li> </ul>  |
| 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>  |
| 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> |              |   |  |

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**Agrometeorological Field Unit  
ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका Agro-met Advisory Bulletin

( Period: 10<sup>th</sup> to 12<sup>th</sup> May 2017)

ग्रामीण कृषि मौसम सेवा



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

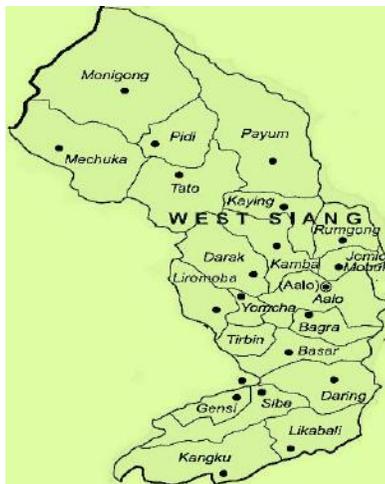


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: West Siang**

**No: 37/2017/Tue**

**Dated: 9<sup>th</sup> May, 2017**



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

| Weather summary of the previous week  | Weather forecast valid up to 14 <sup>th</sup> May 2017  |
|---|---|
| Rainfall = 10.8 mm. T. Max: 29.7°C, T. Min: 15.5°C, RH: 52-94%, Wind Speed: 3-6 kmph, Wind Direction: NW & WS | <b>Partly 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 31-32°C and 17-18°C respectively. Expected morning and evening relative humidity will be 85-92% and 40-65% respectively. Wind direction is mainly W & NNE with speed range of 2-4 kmph. |
| <b>Warning:</b>   | <b>• Rain/thundershowers are likely in few places</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
- 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>         |                    |                          |  |
| Finger millet              | Sowing             |                          | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>  |
| Rice                       | Seedling           | Stem borer               | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</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> </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      | Seedling           |                          | <ul style="list-style-type: none"> <li>Provide proper drainage to newly transplanted seedlings and follow raised bed for sowing.</li> <li><b>On clear day spray Boom (organic liquid manure) @4ml/lit of water in all vegetables for proper growth and development.</b></li> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> </ul>  |
| <b>HORTICULTURAL CROPS</b> |                    |                          |  |
| Ginger/Turmeric            | Sowing/germination |                          | <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> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</b></li> </ul>   |
| Citrus                     | Fruiting           | Bark eating caterpillar/ | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scab in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.</li> <li>Budding method of propagation (T-budding) to commence in oranges using Rangpur lime as rootstock.</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>                    |
| Banana                     | Vegetative         |                          | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>  |
| 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>  |
| 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> |              |   |  |

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: 10<sup>th</sup> to 12<sup>th</sup> May 2017)

ग्रामीण कृषि मौसम सेवा



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

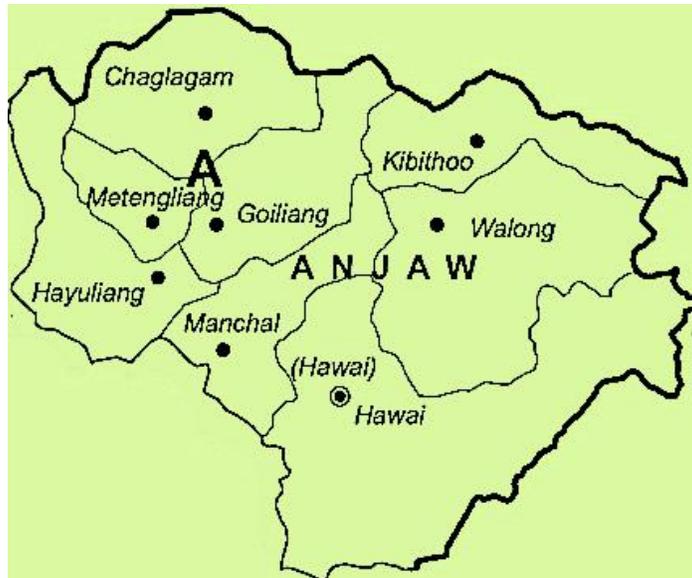


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Anjaw**

No: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 14 <sup>th</sup> May 2017  |
|--------------------------------------|---|
| No weather summary available         | <b>Partly cloudy with possibility of light/moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 32°C and 20-23°C respectively. Expected morning and evening relative humidity will be 78-93% and 33-51% respectively. Wind will blow mostly E & ESE at a speed range of 4-5 kmph. |
| <b>Warning:</b>                      | <b>• Rain/thundershowers are likely in few places</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>         |                    |   |  |
| Finger millet              | Sowing             |   | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>  |
| Rice                       | Seedling           | Stem borer  | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</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> </ul>   |
| Pea                        | Seedling           |   | <ul style="list-style-type: none"> <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> </ul>   |
| <b>VEGETABLES</b>          |                    |   |  |
| Pre-summer vegetables      | Seedling           |   | <ul style="list-style-type: none"> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li><b>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</b></li> </ul>   |
| <b>HORTICULTURAL CROPS</b> |                    |   |  |
| Orchards                   | Multiple stages    |   | <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                     | Vegetative         |   | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>  |
| Ginger/Turmeric            | Sowing/germination |   | <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> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</b></li> </ul>   |
| Citrus                     | Fruiting           | Bark eating caterpillar/ Citrus scab                                      | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scab in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.</li> <li>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</li> <li>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> <li>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</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>   |
| <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>          |                    |   |  |
| 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 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> </ul>  |

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

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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: 10<sup>th</sup> to 12<sup>th</sup> May 2017)

ग्रामीण कृषि मौसम सेवा

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

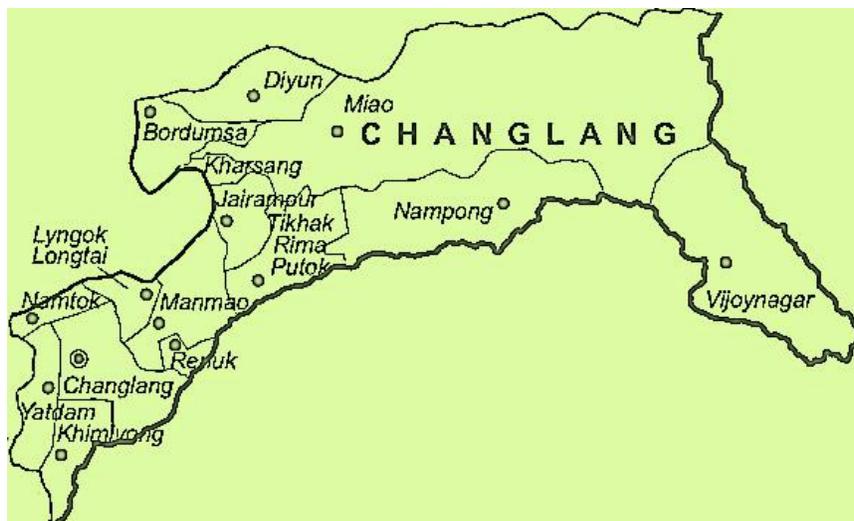


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Changlang**

No: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



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

| Weather summary of the previous week        | Weather forecast valid up to 14 <sup>th</sup> May, 2017  |
|---|--|
| Rainfall = Changlang: 22.6 mm Miao: 86.8 mm | <b>Partly cloudy weather forecasted with moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 19-24°C and 13-15°C respectively. Expected morning and evening relative humidity will be 82-94% and 49-66% respectively. Wind direction is mainly SE & SSE with speed range of 2-4 kmph. |
| <b>Warning</b>                              | <b>• Rain/thundershowers are likely in few places</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>         |                    |   |  |
| Finger millet              | Sowing             |   | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>  |
| Rice                       | Seedling           | Stem borer  | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</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> </ul>   |
| Maize                      | Knee height        |   | <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      | Seedling           |   | <ul style="list-style-type: none"> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> </ul>  |
| <b>HORTICULTURAL CROPS</b> |                    |   |  |
| Ginger/Turmeric            | Sowing/germination |   | <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> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</b></li> </ul>   |
| Citrus                     | Fruiting           | Bark eating caterpillar/  | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <u>25EC@0.05%</u> against citrus scab in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.</li> <li>Budding method of propagation (T-budding) to commence in oranges using Rangpur lime as rootstock.</li> <li>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</li> <li>For bark eating caterpillar, remove wooden frass and inject Dichlorovos (0.1%) @ 5ml with disposable syringe.</li> <li>Dead wood on the citrus trees should be kept pruned, about 2cm, below the dead portion.</li> </ul> |
| Banana                     | Vegetative         |   | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>  |
| 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>  |
| 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> <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> </ul> </li> </ul>   |

|   |            |     |  |
|---|------------|-----|--|
|   |            |     | F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain.   |
| Fishery   |            |     | <ul style="list-style-type: none"> <li>• Remove wet litter/provide artificial heating and light</li> <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: 10<sup>th</sup> to 12<sup>th</sup> May 2017)

ग्रामीण कृषि मौसम सेवा



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

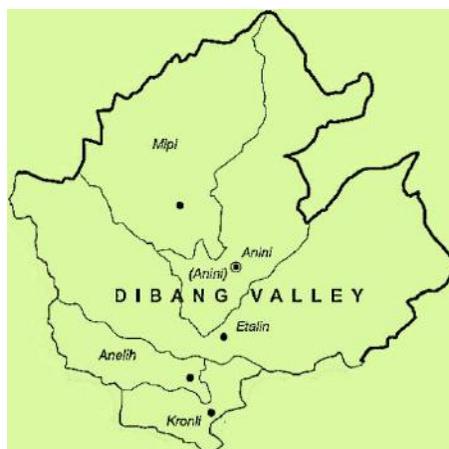


AMFU, ICAR Research Complex for NEH Region  
Arunachal Pradesh Centre, Basar-791101

**District: Dibang Valley**

**No: 37/2017/Tue**

**Dated: 9<sup>th</sup> May, 2017**



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

| Weather summary of the previous week | Weather forecast valid up to 14 <sup>th</sup> May, 2017   |
|--------------------------------------|---|
| Rainfall = 90.0 mm (Anini)           | <b>Partly cloudy sky with possibility of light/moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 18-23°C and 13-15°C respectively. Expected morning and evening relative humidity will be 73-93% and 34-49% respectively. Wind direction is mainly E with speed range of 2-6 kmph. |
| <b>Warning:</b>                      | <b>• Rain/thundershowers are likely in few places</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 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>         |                    |                          |  |
| Finger millet              | Sowing             |                          | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>  |
| Rice                       | Seedling           | Stem borer               | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</li> <li>On clear/dry weather or using sticker (@1ml/lit), 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></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      | Seedling           |                          | <ul style="list-style-type: none"> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li><b>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</b></li> </ul>   |
| <b>HORTICULTURAL CROPS</b> |                    |                          |  |
| Ginger/Turmeric            | Sowing/germination |                          | <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> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</b></li> </ul>   |
| Citrus                     | Fruiting           | Bark eating caterpillar/ | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <b>25EC@0.05%</b> against citrus scab in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.</li> <li>Budding method of propagation (T-budding) to commence in oranges using Rangpur lime as rootstock.</li> <li><b>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</b></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> |
| 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>  |
| 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>   |              |   |  |
| <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: 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: 10<sup>th</sup> to 12<sup>th</sup> May 2017)

ग्रामीण कृषि मौसम सेवा



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



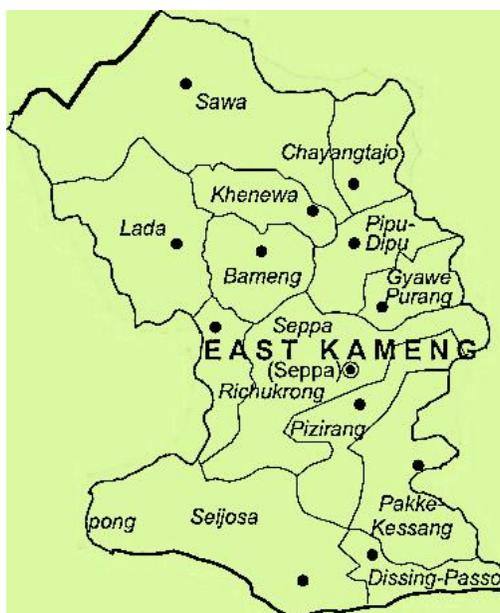
भा.क.अ.पु. - पू.प.सं.  
ICAR - RCNEH

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

### District: East Kameng

No: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



| Weather summary of the previous week | Weather forecast valid up to 14 <sup>th</sup> May 2017  |
|--------------------------------------|---|
| Rainfall = 44.0 mm                   | <b>Mostly cloudy with possibility of light to rather heavy rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 18-23°C and 13-15°C respectively. Expected morning and evening relative humidity will be 76-95% and 44-57% respectively. Expected wind direction is mainly ESE with speed range of 2-5 kmph. |
| <b>Warning:</b>                      | <ul style="list-style-type: none"> <li><b>Rain/thundershowers are likely in few places</b></li> </ul>   |

### 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                       | Seedling           | Stem borer               | <ul style="list-style-type: none"> <li>• Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</li> <li>• On clear/dry weather or using sticker (@1ml/lit), 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>•</li> </ul>  |
| Finger millet              | Sowing             |                          | <ul style="list-style-type: none"> <li>• Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</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      | Seedling           |                          | <ul style="list-style-type: none"> <li>• Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li>• <b>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</b></li> </ul>  |
| <b>HORTICULTURAL CROPS</b> |                    |                          |   |
| Citrus                     | Fruiting           | Bark eating caterpillar/ | <ul style="list-style-type: none"> <li>• Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.</li> <li>• Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li>• <b>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</b></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> |
| Ginger/Turmeric            | Sowing/germination |                          | <ul style="list-style-type: none"> <li>• Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> <li>• <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</b></li> </ul>   |
| Banana                     | Vegetative         |                          | <ul style="list-style-type: none"> <li>• Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>   |
| 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>   |
| 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>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: 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: 10<sup>th</sup> to 12<sup>th</sup> May 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: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



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

| Weather summary of the previous week                           | Weather forecast valid up to 14 <sup>th</sup> May 2017   |
|--|--|
| Rainfall: 41.4 mm; T. Max: 33.0°C; T. Min: 18.0°C ; RH: 71-98% | <b>Partly cloudy with possibility of moderate rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 30-33°C and 16-18°C respectively. Expected morning and evening relative humidity will be 76-91% and 40-65% respectively. Expected wind direction is mainly W & NNE with speed range of 2-5 kmph. |
| <b>Warning:</b>  | <b>• Rain/thundershowers are likely in few places</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>         |                        |                          |   |
| Finger millet              | Sowing                 |                          | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>   |
| Rice                       | Seedling               | Stem borer               | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</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> </ul>  |
| Maize                      | Sowing/<br>Seedling    |                          | <ul style="list-style-type: none"> <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 to avoid fungal infections during rainy days</li> </ul>  |
| <b>VEGETABLES</b>          |                        |                          |   |
| Pre-summer vegetables      | Seedling               |                          | <ul style="list-style-type: none"> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li><b>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</b></li> </ul>  |
| <b>HORTICULTURAL CROPS</b> |                        |                          |   |
| Ginger/Turmeric            | Sowing/<br>germination |                          | <ul style="list-style-type: none"> <li>Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</b></li> </ul>   |
| Banana                     | Vegetative             |                          | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>   |
| Citrus                     | Fruiting               | Bark eating caterpillar/ | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li><b>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</b></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> |
| 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>   |
| 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>   |              |   |   |
| <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>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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# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 10<sup>th</sup> to 12<sup>th</sup> May 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: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



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

| Weather summary of the previous week | Weather forecast valid up to 14 <sup>th</sup> May 2016   |
|--------------------------------------|--|
| Past weather summary not available   | <b>Partly cloudy weather 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 18-23°C and 13-15°C respectively. Expected morning and evening relative humidity will be 83-91% and 45-64% respectively. Wind direction is mainly WSW and SW with speed range of 2-5 kmph. |
| Warning                              | <b>• Rain/thundershowers are likely in few places</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>         |                    |                          |   |
| Finger millet              | Sowing             |                          | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>   |
| Rice                       | Seedling           | Stem borer               | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</li> <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> </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>   |
| Pea                        | Seedling           |                          | <ul style="list-style-type: none"> <li>Provide proper drainage to already sown crops</li> </ul>   |
| <b>VEGETABLES</b>          |                    |                          |   |
| Pre-summer vegetables      | Seedling           |                          | <ul style="list-style-type: none"> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li><b>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</b></li> </ul>  |
| <b>HORTICULTURAL CROPS</b> |                    |                          |   |
| Ginger/Turmeric            | Sowing/germination |                          | <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> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</b></li> </ul>  |
| Banana                     | Vegetative         |                          | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>   |
| Citrus                     | Fruiting           | 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><b>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</b></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> </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>          |                    |                          |   |
| Livestock                  | Stage              | Disease                  | Precautionary Practices to be followed  |
| 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>  |

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

Issued jointly by ICAR-RC for NEH Region, Arunachal Pradesh Centre, Basar and India Meteorological Department  
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**Agrometeorological Field Unit  
ICAR, BASAR**

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 10<sup>th</sup> to 12<sup>th</sup> May 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: 37/2017/Tue

Dated: 9<sup>th</sup> May, 2017



| Weather summary of the previous week | Weather forecast valid up to 14 <sup>th</sup> May, 2017   |
|--------------------------------------|---|
| Rainfall =50.2 mm (Tezu)             | Partly cloudy weather with possibility of moderate rainfall. Daily maximum and minimum temperature for the following period is predicted to be 19-23°C and 13-15°C respectively. Expected morning and evening relative humidity will be 82-94% and 41-59% respectively. Wind direction is E with speed range of 3-4 kmph. |
| <b>Warning:</b>                      | <b>• Rain/thundershowers are likely in few places</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>         |                    |   |   |
| Finger millet              | Sowing             |   | <ul style="list-style-type: none"> <li>Sowing of short duration finger millet varieties like VL-324 &amp; VR-708 can be carried out without delay.</li> </ul>   |
| Rice                       | Seedling           | Stem borer  | <ul style="list-style-type: none"> <li>Top dressing of urea one third of recommended dose can be carried out in upland/jhum rice and maize.</li> <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> </ul>   |
| <b>VEGETABLES</b>          |                    |   |   |
| Pre-summer vegetables      | Seedling           |   | <ul style="list-style-type: none"> <li>Provision of drainage to remove excess water followed by earthing up in vegetables.</li> <li><b>On clear/dry weather, spray Boom (organic liquid manure) @ 4ml/lit of water for proper growth and development.</b></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>  |
| <b>HORTICULTURAL CROPS</b> |                    |   |   |
| Ginger/Turmeric            | Sowing/germination |   | <ul style="list-style-type: none"> <li>Disease free ginger/turmeric rhizomes of 30-40g having atleast 2 eyes to be sown in finely tilth bed of 1 meter width, 15 cm high and of convenient length at a spacing of 30 cm between rows and 25cm between plants.</li> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</b></li> </ul>   |
| Citrus                     | Fruiting           | Bark eating caterpillar/  | <ul style="list-style-type: none"> <li>Spray of Difenocomazole <a href="#">25EC@0.05%</a> against citrus scabe in Khasi Mandarin. Mix sticker 1ml/lit in case of rain.</li> <li>Budding method of propagation (T-budding) to commences in oranges using Rangpur lime as rootstock.</li> <li><b>If the citrus trees are showing oozing symptoms of gum then scrap the area with a sharp knife and apply Metalaxyl MZ-72 or Fosetyl A1 paste on it.</b></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> |
| Banana                     | Vegetative         |   | <ul style="list-style-type: none"> <li>Planting of banana making pit maintaining at a spacing of 2.5 X 2.5 meter plant to plant and row to row distance.</li> </ul>   |
| 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>   |
| 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>          |                    |   |   |
| 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> </ul>   |

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

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

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