

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

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

**Advisory for district: Anjaw**



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

Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
No weather summary available	Mostly cloudy with possibility of rather heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 16-18°C respectively. Expected morning and evening relative humidity will be 97-100% and 63-73% respectively. Wind direction is mainly E & ENE with average wind speed range of 2-3 kmph.
<b>Warning:</b>	• Nil

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Jhum rice	Leaf elongation/ tillering	Leaf blast/ leaf spot/ Yellow stem borer	<ul style="list-style-type: none"> <li>❖ On clear/sunny days, spray carbendazim @2g/lit water in <b>jhum field to control infestation of leaf blast &amp; leaf spot.</b></li> <li>❖ Collection of egg masses (Yellow cottony mass) is advised.</li> <li>❖ On anticipation of rain, provide proper drainage</li> <li>❖ Follow proper runoff management system to avoid loss of top soil due to heavy rainfall.</li> <li>❖ Keep the surrounding clean/ weed free to avoid disease/pest harboring</li> </ul>
Rice	Transplantation	Stem borer	❖ On anticipation of rain, provide proper drainage to the

	/ leaf elongation		<b>nursery/main field to avoid runoff</b> ❖ <b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b> ❖ 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.
Maize	Fruiting/ Mature	Stem borer Rat	❖ <b>Harvest of mature cobs during clear/dry days.</b> ❖ <b>To protect the cobs from rat use of locally available traps is advised,</b>
<b>VEGETABLES</b>			
Vegetables	Vegetative	Leaf eating insects	❖ Monitor for possible insect/pest attack ❖ During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects. ❖ Provide adequate drainage
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	❖ Because of heavy rainfall the exposed roots portion of the plant should be earthened up, ❖ Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	❖ <b>Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade</b>
<b>HORTICULTURAL CROPS</b>			
Peach	Fruit maturing	Fruit Fly	❖ <b>Install fruit fly pheromone traps,</b> ❖ <b>Collect and dispose off the fallen fruits.</b> ❖ <b>Clean basin,</b>
Apple	Fruiting	Fruit drop / wooly aphids	❖ <b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</b> ❖ <b>Application of paradichlorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</b>
Kiwi	Flowering	Leaf eating beetle	❖ <b>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</b> ❖ <b>Hand collection of the insects and its destruction,</b> ❖ <b>Make proper drainage facility in the crop area</b>
Citrus	Flowering	Fruit drop/ Phytophthora	<ul style="list-style-type: none"> <li>• <b>Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower drop</b></li> <li>• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>• During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> <li>• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> </ul>
Ginger/ Turmeric	Germination/ Vegetative		❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b> ❖ <b>Proper drainage to avoid water stagnation</b>
Banana	Bunching	Cold	❖ Cover newly emerged bunches with locally available sack to protect from cold/frost
Large cardamom	Sowing		❖ Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation. ❖ <b>Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.</b>
<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.) Swine Fever	❖ <b>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</b> ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Right time to deworm with anti helmetic drugs (particularly

			Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		<ul style="list-style-type: none"><li>❖ Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</li><li>❖ Avoid rearing day old chicks</li></ul>
Fishery			<ul style="list-style-type: none"><li>❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</li><li>❖ Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</li></ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"><li>❖ Deworming using antihelmintic drugs like Oxyclozanide/ Pyrantel.</li><li>❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</li><li>❖ Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li><li>❖ Provide feed supplements</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>
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247			

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

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

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

**Advisory for district: Changlang**



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

Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = Changlang: 0.0 mm Miao: 0.8 mm	Mostly cloudy with possibility of moderate to rather heavy rain. Daily maximum and minimum temperature for the following period is predicted to be 28-32°C and 23-24°C respectively. Expected morning and evening relative humidity will be 92-99% and 51-86% respectively. Wind direction is mainly E & ESE with speed range of 3-5 kmph.
<b>Warning</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Kharif Maize	Sowing		<ul style="list-style-type: none"> <li>Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek QPM-9 etc from certified agency</li> <li>Ensure seed treatment with carbendazim/Thiram @2g/kg seeds.</li> </ul>
Jhum rice	Leaf elongation/	Leaf blast/ leaf spot	<ul style="list-style-type: none"> <li>On clear/sunny days, spray carbendazim @2g/lit water in</li> </ul>

	tillering		<i>jhum</i> field to control heavy infestation of leaf blast & leaf spot. <ul style="list-style-type: none"> <li>Provide proper drainage and soil conservation measures like mulching with locally available materials.</li> <li>Keep the periphery clean</li> <li>Avoid application of fertilizer and insecticides/pesticides</li> <li><b>Manual weeding may be done during dry days</b></li> </ul>
Rice (Early sown)	Leaf Elongation/ Tillering	Stem borer	<ul style="list-style-type: none"> <li><b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> </ul>
<i>WRC-RICE</i> (Normal sown)	Nursery		<ul style="list-style-type: none"> <li>❖ Sowing of quality seeds in prepared nursery</li> <li>❖ <b>Recommended varieties: Amham, Vandana, RCM-7,10,11, CAUR-1, Ranjit</b></li> <li>❖ Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.</li> </ul>
Maize	Pod formation	Soybean looper	<ul style="list-style-type: none"> <li>❖ Provide proper drainage</li> <li>❖ <b>Spray Azadirachtin 0.15% EC 2@ 6ml/lit against Soybean looper during clear dry days.</b></li> <li>❖ <b>Monitor the crop against attack of insect pests,</b></li> </ul>
<b>VEGETABLES</b>			
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ <b>Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</b></li> <li>❖ <b>Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</b></li> </ul>
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	<ul style="list-style-type: none"> <li>❖ <b>Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade</b></li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ Monitor for possible insect/pest attack</li> <li>❖ During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</li> <li>❖ Provide adequate drainage</li> </ul>
Sponge, bitter, ash & ridge gourd, pumpkin, cucumber	Vegetative/ Fruiting	Fruit fly	<ul style="list-style-type: none"> <li>❖ Use traps to capture adult fruit fly,</li> <li>❖ <b>Provide support to the plants to climb, as high intensity rainfall at this stage will damage the plant,</b></li> </ul>
<b>HORTICULTURAL CROPS</b>			
Ginger/ Turmeric	Germination/ Vegetative		<ul style="list-style-type: none"> <li>❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> <li>❖ <b>Proper drainage to avoid water stagnation</b></li> <li>❖ <b>Manual weeding during clear/dry days</b></li> </ul>
Banana	All stages	Scary beetles	<ul style="list-style-type: none"> <li>❖ <b>Earthing up followed by fertilizer application</b></li> <li>❖ Apply Malathion dust 5D inside the whorl of the plant,</li> <li>❖ Planting of new saplings may be done in present weather</li> </ul>
Citrus	Flowering/ Seedling	Phytophthora	<ul style="list-style-type: none"> <li>• <b>Right time for seedling-follow half moon terraces with spacing of 5 meter.</b></li> <li>• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> <li>• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>• During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> </ul>
Guava	Flowering fruiting		<ul style="list-style-type: none"> <li>❖ <b>Avoid water logging in the basin,</b></li> <li>❖ <b>Basin cleaning in half moon system is advised,</b></li> </ul>
Large cardamom	Sowing		<ul style="list-style-type: none"> <li>❖ Sowing in primary nursery bed at 2cm depth &amp; 10cm apart with mulching &amp; regular irrigation.</li> <li>❖ <b>Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.</b></li> </ul>
<b>HONEY BEES</b>			

Honey bees			❖ Box must be covered with straw/dry leaves to provide warmth ❖ Provide sugar syrup
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>❖ Precautionary Practices to be followed</b>
Fishery			❖ <b>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</b> ❖ <b>Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</b>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ <b>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</b> ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		❖ <b>Provide shelter to the backyard/scavenging poultry.</b> ❖ <b>Feed grains in the morning/evening to supplement scavenging.</b>
Goat	All stages		❖ Deworming for gastrointestinal parasite
Cattle	All stages	FMD	❖ <b>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</b> ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
<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: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

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

**Advisory for district: Upper Dibang Valley**



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

Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = NA (Anini)	<b>Mostly cloudy with possibility of moderate to rather heavy rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 24-26°C and 16-17°C respectively. Expected morning and evening relative humidity will be 98-99% and 74-82% respectively. Wind direction is mainly E & ESE with speed range of 3-4 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
WRC-RICE (Mipun)	Nursery		<ul style="list-style-type: none"> <li>Sowing of quality seeds in prepared nursery,</li> <li>Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.</li> </ul>
Rice (Early sown)	Leaf elongation	Stem borer	<ul style="list-style-type: none"> <li><b>On anticipation of rain, provide proper drainage to the nursery/main field to avoid runoff</b></li> </ul>

			<ul style="list-style-type: none"> <li>• <b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></li> </ul>
Jhum rice	Leaf elongation	Leaf blast/ leaf spot/ Yellow stem borer	<ul style="list-style-type: none"> <li>• <b>On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control infestation of leaf blast &amp; leaf spot.</b></li> <li>• Collection of egg masses (Yellow cottony mass) is advised.</li> <li>• On anticipation of rain, provide proper drainage</li> <li>• Follow proper runoff management system to avoid loss of top soil due to heavy rainfall.</li> <li>• Keep the surrounding clean/ weed free to avoid disease/pest harboring</li> <li>• Manual weeding advocated during clear dry days.</li> </ul>
Maize	Fruiting/ Mature	Stem borer Rat	<ul style="list-style-type: none"> <li>❖ <b>Harvest of mature cobs during clear/dry days.</b></li> <li>❖ <b>To protect the cobs from rat use of locally available traps is advised,</b></li> </ul>
<b>VEGETABLES</b>			
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ <b>Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</b></li> <li>❖ <b>Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</b></li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ <b>Monitor for possible insect/pest attack</b></li> <li>❖ <b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>❖ Provide adequate drainage</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Apple	Fruiting	Fruit drop / wooly aphids	<ul style="list-style-type: none"> <li>❖ <b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</b></li> <li>❖ <b>Application of paradichlorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</b></li> </ul>
Kiwi	Flowering	Leaf eating beetle	<ul style="list-style-type: none"> <li>❖ <b>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</b></li> <li>❖ <b>Hand collection of the insects and its destruction,</b></li> <li>❖ <b>Make proper drainage facility in the crop area</b></li> </ul>
Ginger/ Turmeric	Germination/ Vegetative		<ul style="list-style-type: none"> <li>❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> <li>❖ <b>Proper drainage to avoid water stagnation</b></li> </ul>
Citrus	Flowering	Fruit drop/ Phytophthora	<ul style="list-style-type: none"> <li>• <b>Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower drop</b></li> <li>• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>• During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> <li>• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> </ul>
Peach	Fruit maturing	Fruit Fly	<ul style="list-style-type: none"> <li>❖ <b>Install fruit fly pheromone traps,</b></li> <li>❖ <b>Collect and dispose off the fallen fruits.</b></li> <li>❖ <b>Clean basin,</b></li> </ul>
Large cardamom	Sowing		<ul style="list-style-type: none"> <li>❖ Sowing in primary nursery bed at 2cm depth &amp; 10cm apart with mulching &amp; regular irrigation.</li> </ul>
<b>Honey Bees</b>			
Honey bees			<ul style="list-style-type: none"> <li>❖ Cover the boxes with locally available dry grass or straw to provide warmth</li> <li>❖ Provide sugar syrup in a bowl in front of the box in case of heavy rainfall</li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Fishery			<ul style="list-style-type: none"> <li>❖ <b>To avoid water turbidity, use grass turfing or horticultural</b></li> </ul>



			<b>crop at embankment/dyke of the earthen fish pond.</b> ❖ Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		❖ Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. ❖ Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis.
Cattle	All stages	FMD	❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Supportive treatment of infected animals under supervision of veterinary department officials, ❖ Avoid mixing of infected and healthy animals, ❖ Keep infected animals separated from the healthy ones, ❖ Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) ❖ Provide feed supplements
Mithun		FMD	❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.
<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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**GRAMIN KRISHI MAUSAM SEWA**  
(Integrated Agro-Meteorological Advisory Services)



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

**Advisory for district: East Kameng**



Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = 0.2 mm	Mostly cloudy with possibility moderate to heavy rain. Daily maximum and minimum temperature for the following period is predicted to be 27-30°C and 18-21°C respectively. Expected morning and evening relative humidity will be 95-97% and 59-75% respectively. Expected wind direction is mainly E & ESE with speed range of 2-3 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Kharif Maize	Sowing		<ul style="list-style-type: none"> <li>Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek QPM-9 etc from certified agency</li> <li>Ensure seed treatment with carbendazim/Thiram @2g/kg seeds.</li> </ul>
Jhum rice	Leaf elongation/ tillering	Leaf blast/ leaf spot	<ul style="list-style-type: none"> <li>On clear/sunny days, spray carbendazim @2g/lit water in jhum field to control heavy infestation of leaf blast &amp; leaf spot.</li> </ul>

			<ul style="list-style-type: none"> <li>• Provide proper drainage and soil conservation measures like mulching with locally available materials.</li> <li>• Keep the periphery clean</li> <li>• Avoid application of fertilizer and insecticides/pesticides</li> <li>• <b>Manual weeding may be done during dry days</b></li> </ul>
Maize	Pod formation	Soybean looper	<ul style="list-style-type: none"> <li>❖ <b>Provide proper drainage</b></li> <li>❖ <b>Spray Azadirachtin 0.15% EC 2@ 6ml/lit</b></li> <li>❖ <b>Monitor the crop against attack of insect pests,</b></li> </ul>
Rice	Transplantation/ leaf elongation	Stem borer	<ul style="list-style-type: none"> <li>• <b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></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>			
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	❖ <b>Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade</b>
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</li> <li>❖ Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ Monitor for possible insect/pest attack</li> <li>❖ During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</li> <li>❖ Provide adequate drainage</li> </ul>
Cucurbits	Flowering/ Fruiting	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ Monitor for possible attack of insect/pests</li> <li>❖ During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</li> <li>❖ Cover the base of crop with locally available mulches to avoid exposure to erosion,.</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Ginger/ Turmeric	Germination/ Vegetative		<ul style="list-style-type: none"> <li>❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> <li>❖ <b>Proper drainage to avoid water stagnation</b></li> </ul>
Citrus	Flowering	Bark eating caterpillar	<ul style="list-style-type: none"> <li>• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>❖ Cover newly emerged bunches with locally available sack to protect from cold/frost</li> <li>❖ <b>Mulching with straw/crop residue at root zone to avoid frost injury in banana.</b></li> </ul>
Large Cardamom	Vegetative/ flowering stage		❖ Provide proper drainage to avoid water stagnation in the base of the plants.
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>❖ Precautionary Practices to be followed</b>
<b>❖ General</b> <ul style="list-style-type: none"> <li>❖ <b>Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</b></li> <li>❖ <b>Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</b></li> </ul>			
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>❖ <b>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</b></li> <li>❖ Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>❖ The bedding is always dry and that there is plenty.</li> <li>❖ Right time to deworm with anti helminthic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</li> </ul>
Pigs	All stages		❖ <b>Avoid dampness and cover weak and sick animals with</b>

			<b>sack cloth.</b> ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Goat	All stages		❖ Deworming for gastrointestinal parasite
Fishery			❖ <b>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</b> ❖ <b>Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</b>
Cattle	All stages	FMD	❖ <b>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</b> ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
<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: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

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

**Advisory for district: East Siang**



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

Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall: 0.0 mm; T. Max: 37.7°C; T. Min: 25.0°C ; RH: 49-72%	<b>Mostly cloudy with possibility of moderate to heavy rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 28-32°C and 24-26°C respectively. Expected morning and evening relative humidity will be 94-98% and 64-89% respectively. Expected wind direction is mainly variable with speed range of 2-3 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li></ul>

### Weather Based Agro-meteorological Advisories Bulletin

#### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Kharif Maize	Sowing		<ul style="list-style-type: none"><li>Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek QPM-9 etc from certified agency</li><li>Ensure seed treatment with carbendazim/Thiram @2g/kg seeds.</li></ul>

WRC-RICE (Normal sown)	Nursery		<ul style="list-style-type: none"> <li>❖ Sowing of quality seeds in prepared nursery</li> <li>❖ <b>Recommended varieties: Amham, Vandana, RCM-7,10,11, CAUR-1, Ranjit</b></li> <li>❖ Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.</li> </ul>
Rice	Leaf Elongation/ Tillering	Stem borer	<ul style="list-style-type: none"> <li>• <b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></li> <li>• Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> </ul>
Jhum rice	Leaf elongation/ tillering	Leaf blast/ leaf spot	<ul style="list-style-type: none"> <li>• <b>On clear/sunny days, spray carbendazim @2g/lit water in jhum field to control heavy infestation of leaf blast &amp; leaf spot.</b></li> <li>• Provide proper drainage and soil conservation measures like mulching with locally available materials.</li> <li>• Keep the periphery clean</li> <li>• Avoid application of fertilizer and insecticides/pesticides</li> <li>• <b>Manual weeding may be done during dry days</b></li> </ul>
Maize	Pod formation	Soybean looper	<ul style="list-style-type: none"> <li>❖ <b>Provide proper drainage</b></li> <li>❖ <b>Spray Azadirachtin 0.15% EC 2@ 6ml/lit</b></li> <li>❖ <b>Monitor the crop against attack of insect pests,</b></li> </ul>
<b>VEGETABLES</b>			
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	❖ <b>Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade</b>
Sponge, bitter, ash & ridge gourd, pumpkin, cucumber	Vegetative/ Fruiting	Fruit fly	<ul style="list-style-type: none"> <li>❖ Use traps to capture adult fruit fly,</li> <li>❖ Provide support to the plants to climb, as high intensity rainfall at this stage will damage the plant,</li> </ul>
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</li> <li>❖ Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ Monitor for possible insect/pest attack</li> <li>❖ During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</li> <li>❖ Provide adequate drainage</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Flowering/ Seedling	Phytophthora	<ul style="list-style-type: none"> <li>• <b>Right time for seedling-follow half moon terraces with spacing of 5 meter.</b></li> <li>• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> <li>• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>• During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> </ul>
Banana	All stages	Scary beetles	<ul style="list-style-type: none"> <li>❖ <b>Earthing up followed by fertilizer application</b></li> <li>❖ Apply Malathion dust 5D inside the whorl of the plant,</li> <li>❖ Planting of new saplings may be done in present weather</li> </ul>
Apple	Fruiting	Fruit drop / wooly aphids	<ul style="list-style-type: none"> <li>❖ <b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</b></li> <li>❖ <b>Application of paradichlorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</b></li> </ul>
Kiwi	Flowering	Leaf eating beetle	<ul style="list-style-type: none"> <li>❖ <b>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</b></li> <li>❖ <b>Hand collection of the insects and its destruction,</b></li> <li>❖ <b>Make proper drainage facility in the crop area</b></li> </ul>
Guava	Flowering		<ul style="list-style-type: none"> <li>❖ Avoid water logging in the basin,</li> <li>❖ Basin cleaning in half moon system is advised,</li> </ul>
Ginger/ Turmeric	Germination/		❖ <b>Mulching ginger beds with locally available</b>



	Vegetative		leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil & conserve moisture during dry seasons. ❖ Proper drainage to avoid water stagnation
Large cardamom	Sowing		❖ Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation. ❖ Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.
<b>Honey Bees</b>			
Honey bees			❖ Cover the boxes with locally available dry grass or straw to provide warmth
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>❖ Precautionary Practices to be followed</b>
Fishery			❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond. ❖ Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		❖ Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. ❖ Day old chick-Maintain warmth by lighting, ❖ Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis.
Goat	All stages		❖ Deworming for gastrointestinal parasite
Cattle	All stages	FMD	❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
<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: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

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

**Advisory for district: Kurung Kumey**



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

Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall (Koloriang): 0.6 mm	<b>Mostly cloudy with possibility of rather heavy to heavy rain.</b> Daily maximum and minimum temperature for the following period is predicted to be 24-25°C and 15-16°C respectively. Expected morning and evening relative humidity will be 92-95% and 72-80% respectively. Wind direction is mainly SE & SSE with wind speed range of 3-5 kmph.
<b>Warning</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Jhum rice	Leaf elongation	Leaf blast/ leaf spot/ Yellow stem borer	<ul style="list-style-type: none"> <li><b>On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control infestation of leaf blast &amp; leaf spot.</b></li> <li>Collection of egg masses (Yellow cottony mass) is advised.</li> <li>On anticipation of rain, provide proper drainage</li> <li>Follow proper runoff management system to avoid loss of</li> </ul>

			<p>top soil due to heavy rainfall.</p> <ul style="list-style-type: none"> <li>Keep the surrounding clean/ weed free to avoid disease/pest harboring</li> <li>Manual weeding advocated during clear dry days.</li> </ul>
Rice	Transplantation / leaf elongation	Stem borer	<ul style="list-style-type: none"> <li><b>On anticipation of rain, provide proper drainage to the nursery/main field to avoid runoff</b></li> <li><b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></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	Fruiting/ Mature	Stem borer Rat	<ul style="list-style-type: none"> <li>❖ <b>Harvest of mature cobs during clear/dry days.</b></li> <li>❖ <b>To protect the cobs from rat use of locally available traps is advised,</b></li> </ul>
Pea	Maturity	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> <li>❖ <b>Green pods can be harvested during sunny days</b></li> <li>❖ Provide adequate drainage and avoid water stagnation near the base of the plants.</li> <li>❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
<b>VEGETABLES</b>			
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ <b>Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</b></li> <li>❖ <b>Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</b></li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ <b>Monitor for possible insect/pest attack</b></li> <li>❖ <b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>❖ Provide adequate drainage</li> </ul>
Cucurbits	Flowering/ Fruiting	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ <b>Monitor for possible attack of insect/pests</b></li> <li>❖ <b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>❖ <b>Cover the base of crop with locally available mulches to avoid exposure to erosion,.</b></li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Flowering	Fruit drop/ Phytophthora	<ul style="list-style-type: none"> <li><b>Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower drop</b></li> <li>During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> <li>Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> </ul>
Apple	Fruiting	Fruit drop / wooly aphids	<ul style="list-style-type: none"> <li>❖ <b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</b></li> <li>❖ <b>Application of paradichlorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</b></li> </ul>
Kiwi	Flowering	Leaf eating beetle	<ul style="list-style-type: none"> <li>❖ <b>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</b></li> <li>❖ <b>Hand collection of the insects and its destruction,</b></li> <li>❖ <b>Make proper drainage facility in the crop area</b></li> </ul>
Peach	Fruit maturing	Fruit Fly	<ul style="list-style-type: none"> <li>❖ <b>Install fruit fly pheromone traps,</b></li> <li>❖ <b>Collect and dispose off the fallen fruits.</b></li> <li>❖ <b>Clean basin,</b></li> </ul>
Large cardamom	Sowing		<ul style="list-style-type: none"> <li>❖ Sowing in primary nursery bed at 2cm depth &amp; 10cm apart with mulching &amp; regular irrigation.</li> </ul>

Temperate fruits	After harvesting		<ul style="list-style-type: none"> <li>❖ Training &amp; pruning of the temperate crops (apple/pears/peach) is recommended</li> <li>❖ <b>In case of flowering, stop spraying insecticides/pesticides</b></li> </ul>
Pineapple	Harvesting		<ul style="list-style-type: none"> <li>❖ <b>After winter harvest, collection/Selection of suckers &amp; slip to be done for next season planting</b></li> </ul>
Ginger/ Turmeric	Germination/ Vegetative		<ul style="list-style-type: none"> <li>❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> <li>❖ <b>Proper drainage to avoid water stagnation</b></li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>❖ Cover newly emerged bunches with locally available sack to protect from cold/frost</li> <li>❖ <b>Mulching with straw/crop residue at root zone to avoid frost injury in banana.</b></li> </ul>
<b>Honey Bees</b>			
			<ul style="list-style-type: none"> <li>❖ Box must be covered with straw/dry leaves to provide warmth</li> </ul>
<b>LIVESTOCKS</b>			
<b>General</b> <ul style="list-style-type: none"> <li>❖ Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</li> <li>❖ Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</li> </ul>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
Fishery			<ul style="list-style-type: none"> <li>❖ <b>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</b></li> <li>❖ <b>Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</b></li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>❖ <b>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</b></li> <li>❖ Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>❖ The bedding is always dry and that there is plenty.</li> <li>❖ Animals should be given lukewarm feed and water.</li> <li>❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>❖ <b>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</b></li> <li>❖ Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>❖ Provide feed supplements</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>❖ <b>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</b></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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**GRAMIN KRISHI MAUSAM SEWA**  
(Integrated Agro-Meteorological Advisory Services)



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

**Advisory for district: Lohit**



Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = 1.5 mm	<b>Mostly cloudy with possibility of rather heavy to heavy rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 28-31°C and 21-22°C respectively. Expected morning and evening relative humidity will be 96-99% and 63-80% respectively. Wind direction is mainly E & ENE with speed range of 3-5 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Kharif Maize	Sowing		<ul style="list-style-type: none"> <li>Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek QPM-9 etc from certified agency</li> <li>Ensure seed treatment with carbendazim/Thiram @2g/kg seeds.</li> </ul>
Jhum rice	Leaf elongation/ tillering	Leaf blast/ leaf spot	<ul style="list-style-type: none"> <li>On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control heavy infestation of leaf blast &amp; leaf spot.</li> </ul>



			<ul style="list-style-type: none"> <li>• Provide proper drainage and soil conservation measures like mulching with locally available materials.</li> <li>• Keep the periphery clean</li> <li>• Avoid application of fertilizer and insecticides/pesticides</li> <li>• <b>Manual weeding may be done during dry days</b></li> </ul>
Rice	Leaf Elongation/ Tillering	Stem borer	<ul style="list-style-type: none"> <li>• <b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></li> <li>• Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> </ul>
<i>WRC-RICE</i> (Normal sown)	Nursery		<ul style="list-style-type: none"> <li>❖ Sowing of quality seeds in prepared nursery</li> <li>❖ <b>Recommended varieties: Amham, Vandana, RCM-7,10,11, CAUR-1, Ranjit</b></li> <li>❖ Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.</li> </ul>
Maize	Pod formation	Soybean looper	<ul style="list-style-type: none"> <li>❖ <b>Provide proper drainage</b></li> <li>❖ <b>Spray Azadirachtin 0.15% EC 2@ 6ml/lit</b></li> <li>❖ <b>Monitor the crop against attack of insect pests,</b></li> </ul>
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> <li>❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
<b>VEGETABLES</b>			
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	<ul style="list-style-type: none"> <li>❖ <b>Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade</b></li> </ul>
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</li> <li>❖ Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</li> </ul>
Sponge, bitter, ash & ridge gourd, pumpkin, cucumber	Vegetative/ Fruiting	Fruit fly	<ul style="list-style-type: none"> <li>❖ Use traps to capture adult fruit fly,</li> <li>❖ Provide support to the plants to climb, as high intensity rainfall at this stage will damage the plant,</li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ Monitor for possible insect/pest attack</li> <li>❖ During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</li> <li>❖ Provide adequate drainage</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Flowering/ Seedling	Phytophthora	<ul style="list-style-type: none"> <li>• <b>Right time for seedling-follow half moon terraces with spacing of 5 meter.</b></li> <li>• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> <li>• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>• During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> </ul>
Guava	Flowering		<ul style="list-style-type: none"> <li>❖ <b>Avoid water logging in the basin,</b></li> <li>❖ <b>Basin cleaning in half moon system is advised,</b></li> </ul>
Ginger/ Turmeric	Germination/ Vegetative		<ul style="list-style-type: none"> <li>❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> <li>❖ <b>Proper drainage to avoid water stagnation</b></li> </ul>
Banana	All stages	Scary beetles	<ul style="list-style-type: none"> <li>❖ <b>Apply Malathion dust 5D inside the whorl of the plant,</b></li> <li>❖ <b>Planting of new saplings may be done in present weather</b></li> </ul>
Kiwi	Pruning/Training		<ul style="list-style-type: none"> <li>❖ <b>Diseased and senile branches should be removed.</b></li> <li>❖ <b>Pruning should be done retaining 8-10 buds per branch for enhancing new flush and flowering.</b></li> <li>❖ <b>Pruned healthy hard wood of pencil thickness size having 4-5 buds can be used as cutting for propagation</b></li> </ul>
Large Cardamom	Fruiting	Chirkey Disease	<ul style="list-style-type: none"> <li>❖ <b>Remove dry/diseased/old tillers &amp; branches &amp; spray Bio NPK@ 2ml/lit water for proper growth on clear/dry days.</b></li> </ul>



Honey Bees			
Honey bees			❖ Cover the boxes with locally available dry grass or straw to provide warmth
LIVESTOCKS			
Livestock	Stage	Disease	Precautionary Practices to be followed
❖ <b>General</b> ❖ Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding ❖ Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,			
Fishery			❖ <b>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</b> ❖ Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		❖ Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. ❖ Day old chick-Maintain warmth by lighting, ❖ Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis.
Goat	All stages		❖ Deworming for gastrointestinal parasite
Cattle	All stages	FMD	❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
<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: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

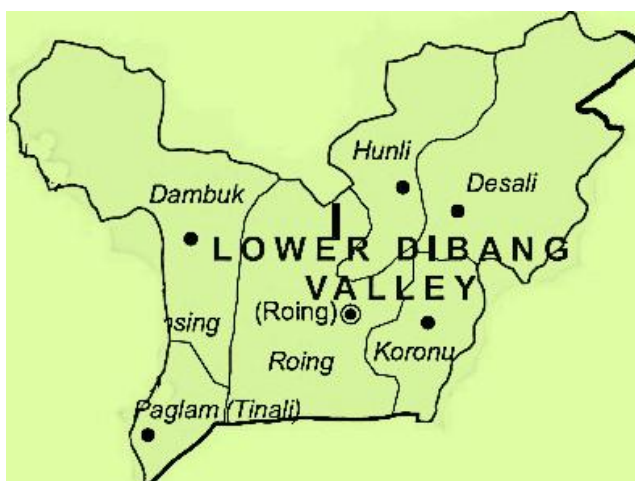
ग्रामीण कृषि मौसम सेवा

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



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

**Advisory for district: Lower Dibang Valley**



Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = 0.0 mm (Roing)	<b>Mostly cloudy with possibility of moderate to rather heavy rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-30°C and 18-21°C respectively. Expected morning and evening relative humidity will be 97-100% and 78-83% respectively. Wind direction is mainly ENE & E with speed range of 2-3 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
WRC-RICE (Normal sown)	Nursery		<ul style="list-style-type: none"> <li>Sowing of quality seeds in prepared nursery</li> <li><b>Recommended varieties: Amham, Vandana, RCM-7,10,11, CAUR-1, Ranjit</b></li> <li>Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.</li> </ul>

Kharif Maize	Sowing		<ul style="list-style-type: none"> <li>❖ Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek QPM-9 etc from certified agency</li> <li>❖ Ensure seed treatment with carbendazim/Thiram @2g/kg seeds.</li> </ul>
Rice	Leaf Elongation/ Tillering	Stem borer	<ul style="list-style-type: none"> <li>• <b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></li> <li>• Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> </ul>
Jhum rice	Rooting/ Leaf elongation	Leaf blast/ leaf spot	<ul style="list-style-type: none"> <li>• <b>On clear/sunny days, spray carbendazim @2g/lit water in jhum field to control heavy infestation of leaf blast &amp; leaf spot.</b></li> <li>• Provide proper drainage and soil conservation measures like mulching with locally available materials.</li> <li>• Keep the periphery clean</li> <li>• Avoid application of fertilizer and insecticides/pesticides</li> <li>• <b>Manual weeding may be done during dry days</b></li> </ul>
Maize	Pod formation	Soybean looper	<ul style="list-style-type: none"> <li>❖ <b>Provide proper drainage</b></li> <li>❖ <b>Spray Azadirachtin 0.15% EC 2@ 6ml/lit</b></li> <li>❖ <b>Monitor the crop against attack of insect pests,</b></li> </ul>
Pea	Seed development	Powdery mildew/ leaf eating insects	<ul style="list-style-type: none"> <li>❖ <b>Provide adequate drainage and avoid water stagnation near the base of the plants.</b></li> <li>❖ Need based foliar spray of Dinocap (0.2%) or Carbendazim 50WP (0.1%) or Propiconazole (0.1%) using sticker if the infestation is high.</li> </ul>
Toria/ Mustard	Maturity	Aphids	<ul style="list-style-type: none"> <li>❖ <b>Provide adequate drainage</b></li> <li>❖ If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.</li> </ul>
<b>VEGETABLES</b>			
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	<ul style="list-style-type: none"> <li>❖ <b>Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade</b></li> </ul>
Sponge, bitter, ash & ridge gourd, pumpkin, cucumber	Vegetative/ Fruiting	Fruit fly	<ul style="list-style-type: none"> <li>❖ Use traps to capture adult fruit fly,</li> <li>❖ Provide support to the plants to climb, as high intensity rainfall at this stage will damage the plant,</li> </ul>
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</li> <li>❖ Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</li> </ul>
Summer vegetables	Vegetative/ flowering	Flea beetles/ fungal diseases	<ul style="list-style-type: none"> <li>❖ During clear/dry days, spray azadirachtin 0.15EC@6ml/lit against flea beetles</li> <li>❖ During clear/dry days, spray carbendazim/Mancozab@2gm/lit to control fungal diseases in summer vegetables.</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Flowering/ Seedling	Phytophthora	<ul style="list-style-type: none"> <li>• <b>Right time for seedling-follow half moon terraces with spacing of 5 meter.</b></li> <li>• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> <li>• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>• During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> </ul>
Banana	All stages	Scary beetles	<ul style="list-style-type: none"> <li>❖ <b>Earthing up followed by fertilizer application</b></li> <li>❖ Apply Malathion dust 5D inside the whorl of the plant,</li> <li>❖ Planting of new saplings may be done in present weather</li> </ul>
Ginger/ Turmeric	Germination/ Vegetative		<ul style="list-style-type: none"> <li>❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> <li>❖ <b>Proper drainage to avoid water stagnation</b></li> </ul>

Guava	Flowering		❖ Avoid water logging in the basin, ❖ Basin cleaning in half moon system is advised,
Large cardamom	Sowing		❖ Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation. ❖ Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.
<b>Honey Bees</b>			
Honey bees			❖ Box must be covered with straw/dry leaves to provide warmth
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	❖ <b>Precautionary Practices to be followed</b>
❖ <b>General</b> ❖ Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding ❖ Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,			
Fishery			❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond. ❖ Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		❖ Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. ❖ Day old chick-Maintain warmth by lighting, ❖ Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis.
Goat	All stages		❖ Deworming for gastrointestinal parasite
Cattle	All stages	FMD	❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
<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: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

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

**Advisory for district: Lower Subansiri**



Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = NA	Mostly cloudy with possibility of rather heavy to heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 28-31°C and 21-22°C respectively. Expected morning and evening relative humidity will be 95-97% and 66-79% respectively. Wind direction is mainly ESE & SE with speed range of 2-3 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
WRC-RICE (Mipun)	Nursery		<ul style="list-style-type: none"> <li>Sowing of quality seeds in prepared nursery,</li> <li>Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.</li> </ul>
Jhum rice	Leaf elongation	Leaf blast/ leaf spot/	<ul style="list-style-type: none"> <li>On clear/sunny days, spray carbendazim @2g/lit water in jhum field to control infestation of leaf blast &amp; leaf spot.</li> </ul>



		Yellow stem borer	<ul style="list-style-type: none"> <li>Collection of egg masses (Yellow cottony mass) is advised.</li> <li>On anticipation of rain, provide proper drainage</li> <li>Follow proper runoff management system to avoid loss of top soil due to heavy rainfall.</li> <li>Keep the surrounding clean/ weed free to avoid disease/pest harboring</li> <li>Manual weeding advocated during clear dry days.</li> </ul>
Rice	Transplantation / leaf elongation	Stem borer	<ul style="list-style-type: none"> <li><b>On anticipation of rain, provide proper drainage to the nursery/main field to avoid runoff</b></li> <li><b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></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	Fruiting/ Mature	Stem borer Rat	<ul style="list-style-type: none"> <li>❖ <b>Harvest of mature cobs during clear/dry days.</b></li> <li>❖ <b>To protect the cobs from rat use of locally available traps is advised,</b></li> </ul>
<b>VEGETABLES</b>			
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ <b>Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</b></li> <li>❖ <b>Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</b></li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ <b>Monitor for possible insect/pest attack</b></li> <li>❖ <b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>❖ Provide adequate drainage</li> </ul>
Cucurbits	Flowering/ Fruiting	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ <b>Monitor for possible attack of insect/pests</b></li> <li>❖ <b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>❖ <b>Cover the base of crop with locally available mulches to avoid exposure to erosion,.</b></li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Flowering	Fruit drop/ Phytophthora	<ul style="list-style-type: none"> <li><b>Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower drop</b></li> <li>During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> <li>Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> </ul>
Ginger/ Turmeric	Germination/ Vegetative		<ul style="list-style-type: none"> <li>❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> <li>❖ <b>Proper drainage to avoid water stagnation</b></li> </ul>
Apple	Fruiting	Fruit drop / wooly aphids	<ul style="list-style-type: none"> <li>❖ <b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</b></li> <li>❖ <b>Application of paradichlorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</b></li> </ul>
Kiwi	Flowering	Leaf eating beetle	<ul style="list-style-type: none"> <li>❖ <b>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</b></li> <li>❖ <b>Hand collection of the insects and its destruction,</b></li> <li>❖ <b>Make proper drainage facility in the crop area</b></li> </ul>
Peach	Fruit maturing	Fruit Fly	<ul style="list-style-type: none"> <li>❖ <b>Install fruit fly pheromone traps,</b></li> <li>❖ <b>Collect and dispose off the fallen fruits.</b></li> <li>❖ <b>Clean basin,</b></li> </ul>



Guava	Flowering		<ul style="list-style-type: none"> <li>❖ <b>Avoid water logging in the basin,</b></li> <li>❖ <b>Basin cleaning in half moon system is advised,</b></li> </ul>
Large cardamom	Sowing		<ul style="list-style-type: none"> <li>❖ Sowing in primary nursery bed at 2cm depth &amp; 10cm apart with mulching &amp; regular irrigation.</li> <li>❖ <b>Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.</b></li> </ul>
Temperate fruits	After harvesting		<ul style="list-style-type: none"> <li>❖ Training &amp; pruning of the temperate crops (apple/pears/peach) is recommended</li> <li>❖ <b>In case of flowering, stop spraying insecticides/pesticides</b></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>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>
Fishery			<ul style="list-style-type: none"> <li>❖ <b>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</b></li> <li>❖ <b>Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</b></li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>❖ <b>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</b></li> <li>❖ Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>❖ The bedding is always dry and that there is plenty.</li> <li>❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</li> </ul>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul style="list-style-type: none"> <li>❖ <b>Avoid dampness and cover weak and sick animals with sack cloth.</b></li> <li>❖ <b>The bedding is always dry and that there is plenty.</b></li> <li>❖ <b>If possible wooden sleeping box should be provided.</b></li> <li>❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>❖ <b>Animals should be given lukewarm feed and water.</b></li> <li>❖ <b>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</b></li> <li>❖ Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>❖ Provide feed supplements</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: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

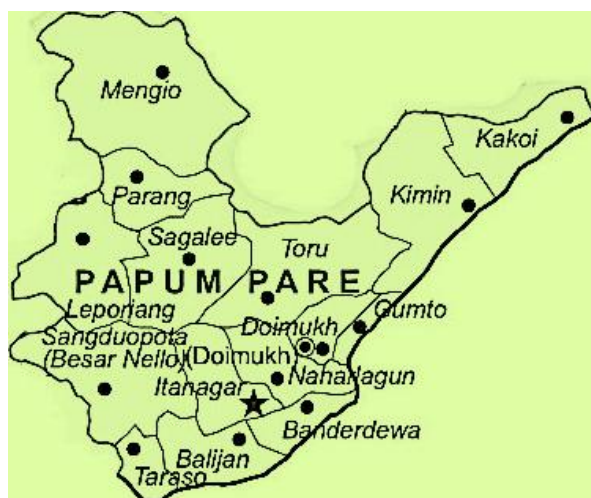
ग्रामीण कृषि मौसम सेवा

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



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

**Advisory for district: Papum Pare**



Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall: 0.0 mm; T. Max: 38.5°C; T. Min: 24.7°C ; RH: 57-69%	<b>Mostly cloudy with possibility of rather heavy to heavy rain.</b> Daily maximum and minimum temperature for the following period is predicted to be 28-32°C and 23-24°C respectively. Expected morning and evening relative humidity will be 96-98% and 73-78% respectively. Expected wind direction mainly SE & ENE with speed range of 3-4 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
WRC-RICE (Normal sown)	Nursery		<ul style="list-style-type: none"> <li>Sowing of quality seeds in prepared nursery</li> <li><b>Recommended varieties: Amham, Vandana, RCM-7,10,11, CAUR-1, Ranjit</b></li> <li>Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.</li> </ul>
Kharif Maize	Sowing		<ul style="list-style-type: none"> <li><b>Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek</b></li> </ul>

			<b>QPM-9 etc from certified agency</b> ❖ Ensure seed treatment with carbendazim/Thiram @2g/kg seeds.
Jhum rice	Leaf elongation/ tillering	Leaf blast/ leaf spot	<ul style="list-style-type: none"> <li>On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control heavy infestation of leaf blast &amp; leaf spot.</li> <li>Provide proper drainage and soil conservation measures like mulching with locally available materials.</li> <li>Keep the periphery clean</li> <li>Avoid application of fertilizer and insecticides/pesticides</li> <li><b>Manual weeding may be done during dry days</b></li> </ul>
Rice	Leaf Elongation/ Tillering	Stem borer	<ul style="list-style-type: none"> <li><b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> </ul>
Maize	Pod formation	Soybean looper	❖ <b>Provide proper drainage</b> ❖ <b>Spray Azadirachtin 0.15% EC 2@ 6ml/lit</b> ❖ <b>Monitor the crop against attack of insect pests,</b>
<b>VEGETABLES</b>			
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	❖ <b>Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade</b>
Sponge, bitter, ash & ridge gourd, pumpkin, cucumber	Vegetative/ Fruiting	Fruit fly	❖ Use traps to capture adult fruit fly, ❖ Provide support to the plants to climb, as high intensity rainfall at this stage will damage the plant,
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	❖ Because of heavy rainfall the exposed roots portion of the plant should be earthened up, ❖ Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,
Summer vegetables	Vegetative/ flowering	Flea beetles/ fungal diseases	❖ During clear/dry days, spray azadirachtin0.15EC@6ml/lit against flea beetles ❖ During clear/dry days, spray carbendazim/Mancozab@2gm/lit to control fungal diseases in summer vegetables.
<b>HORTICULTURAL CROPS</b>			
Ginger/ Turmeric	Germination/ Vegetative		❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b> ❖ <b>Proper drainage to avoid water stagnation</b>
Banana	All stages	Scary beetles	❖ <b>Earthing up followed by fertilizer application</b> ❖ Apply Malathion dust 5D inside the whorl of the plant, ❖ Planting of new saplings may be done in present weather
Citrus	Flowering/ Seedling	Phytophthora	<ul style="list-style-type: none"> <li><b>Right time for seedling-follow half moon terraces with spacing of 5 meter.</b></li> <li>Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> </ul>
Guava	Flowering		❖ <b>Avoid water logging in the basin,</b> ❖ <b>Basin cleaning in half moon system is advised,</b>
Large Cardamom	Vegetative		❖ <b>Provide proper drainage to avoid water stagnation in the base of the plant.</b>
<b>Honey Bees</b>			
Honey bees			❖ Box must be covered with straw/dry leaves to provide warmth
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>Precautionary Practices to be followed</b>
<b>General</b>			

❖ Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding ❖ Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,			
Fishery			❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond. ❖ Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds. ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		❖ Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging. ❖ Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis.
Goat	All stages		❖ Deworming for gastrointestinal parasite
Cattle	All stages	FMD	❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight. ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
<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: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

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

**Advisory for district: Tawang**



Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = 6.0 mm	Mostly cloudy with possibility of moderate to heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 16-18°C and 6.0-8.0°C respectively. Expected morning and evening relative humidity will be 89-98% and 59-72% respectively. Wind direction is mainly variable with probable speed range of 2-4 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"><li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li></ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Maize	Fruiting/ Mature	Stem borer Rat	<ul style="list-style-type: none"><li>Harvest of mature cobs during clear/dry days.</li><li>To protect the cobs from rat use of locally available traps is advised,</li></ul>
Jhum rice	Leaf elongation	Leaf blast/ leaf spot/	<ul style="list-style-type: none"><li>On clear/sunny days, spray carbendazim @2g/lit water in jhum field to control infestation of leaf blast &amp; leaf spot.</li></ul>



		Yellow stem borer	<ul style="list-style-type: none"> <li>Collection of egg masses (Yellow cottony mass) is advised.</li> <li>On anticipation of rain, provide proper drainage</li> <li>Follow proper runoff management system to avoid loss of top soil due to heavy rainfall.</li> <li>Keep the surrounding clean/ weed free to avoid disease/pest harboring</li> <li>Manual weeding advocated during clear dry days.</li> </ul>
Rice	Transplantation / leaf elongation	Stem borer	<ul style="list-style-type: none"> <li><b>On anticipation of rain, provide proper drainage to the nursery/main field to avoid runoff</b></li> <li><b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></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>			
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li><b>Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</b></li> <li><b>Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</b></li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li><b>Monitor for possible insect/pest attack</b></li> <li><b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>Provide adequate drainage</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Apple	Fruiting	Fruit drop / wooly aphids	<ul style="list-style-type: none"> <li><b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</b></li> <li><b>Application of paradichlorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</b></li> </ul>
Kiwi	Flowering	Leaf eating beetle	<ul style="list-style-type: none"> <li><b>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</b></li> <li><b>Hand collection of the insects and its destruction,</b></li> <li><b>Make proper drainage facility in the crop area</b></li> </ul>
Peach	Fruit maturing	Fruit Fly	<ul style="list-style-type: none"> <li><b>Install fruit fly pheromone traps,</b></li> <li><b>Collect and dispose off the fallen fruits.</b></li> <li><b>Clean basin,</b></li> </ul>
Temperate fruits	After harvesting		<ul style="list-style-type: none"> <li>Training &amp; pruning of the temperate crops (apple/pears/peach) is recommended</li> <li><b>In case of flowering, stop spraying insecticides/pesticides</b></li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li><b>Monitor for possible insect/pest attack</b></li> <li><b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>Provide adequate drainage</li> </ul>
Cucurbits	Flowering/ Fruiting	Leaf eating insects	<ul style="list-style-type: none"> <li><b>Monitor for possible attack of insect/pests</b></li> <li><b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li><b>Cover the base of crop with locally available mulches to avoid exposure to erosion,</b></li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> <li><b>Mulching with straw/crop residue at root zone to avoid frost injury in banana.</b></li> </ul>
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>❖ Precautionary Practices to be followed</b>
<b>General</b> <ul style="list-style-type: none"> <li>❖ Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding</li> <li>❖ Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,</li> </ul>			
Pigs	All stages	FMD (high fever and appearance	<ul style="list-style-type: none"> <li><b>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials</b></li> </ul>



		of mucous membrane of the mouth and foot.) Swine Fever	<p><b>together is advocated to improve digestibility and to break- down toxins from some feeds.</b></p> <ul style="list-style-type: none"> <li>❖ Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>❖ The bedding is always dry and that there is plenty.</li> <li>❖ Animals should be given lukewarm feed and water.</li> <li>❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</li> </ul>
Poultry	All stages		<ul style="list-style-type: none"> <li>❖ <b>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</b></li> <li>❖ <b>Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis.</b></li> </ul>
Yak	All stages		<ul style="list-style-type: none"> <li>❖ <b>Feeding of concentrate feed along with mineral mixture and salt.</b></li> <li>❖ <b>Hay feeding is recommended.</b></li> </ul>
Cattle	All stages	FMD	<ul style="list-style-type: none"> <li>❖ <b>Animals should be given lukewarm feed and water.</b></li> <li>❖ <b>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</b></li> <li>❖ Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li> <li>❖ Provide feed supplements</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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No: AMFU-Basar/2018/47

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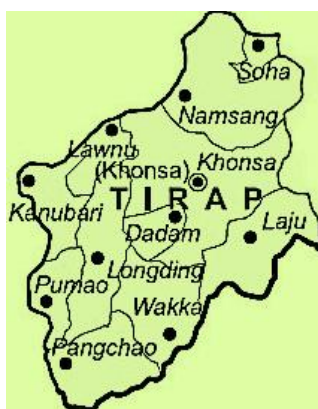
ग्रामीण कृषि मौसम सेवा

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



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

**Advisory for district: Tirap**



Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = 0.0 mm	Mostly cloudy with possibility of moderate to rather heavy rain. Daily maximum and minimum temperature for the following period is predicted to be 28-32°C and 23-24°C respectively. Expected morning and evening relative humidity will be 93-99% and 71-93% respectively. Wind direction is mainly SE & SSE with speed range of 2-4 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
WRC-RICE (Normal sown)	Nursery		<ul style="list-style-type: none"> <li>Sowing of quality seeds in prepared nursery</li> <li>Recommended varieties: Amham, Vandana, RCM-7,10,11, CAUR-1, Ranjit</li> <li>Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.</li> </ul>
Kharif Maize	Sowing		<ul style="list-style-type: none"> <li>Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek QPM-9 etc from certified agency</li> <li>Ensure seed treatment with carbendazim/Thiram @2g/kg</li> </ul>

			seeds.
Rice	Leaf Elongation/ Tillering	Stem borer	<ul style="list-style-type: none"> <li>• <b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></li> <li>• Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> </ul>
Maize	Pod formation	Soybean looper	<ul style="list-style-type: none"> <li>❖ <b>Provide proper drainage</b></li> <li>❖ <b>Spray Azadirachtin 0.15% EC 2@ 6ml/lit</b></li> <li>❖ <b>Monitor the crop against attack of insect pests,</b></li> </ul>
Jhum rice	Leaf elongation/ tillering		<ul style="list-style-type: none"> <li>• <b>Provide proper drainage and soil conservation measures like mulching with locally available materials.</b></li> <li>• <b>Keep the periphery clean</b></li> <li>• <b>Avoid application of fertilizer and insecticides/pesticides</b></li> </ul>
<b>VEGETABLES</b>			
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	❖ <b>Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade</b>
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</li> <li>❖ Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</li> </ul>
Sponge, bitter, ash & ridge gourd, pumpkin, cucumber	Vegetative/ Fruiting	Fruit fly	<ul style="list-style-type: none"> <li>❖ Use traps to capture adult fruit fly,</li> <li>❖ Provide support to the plants to climb, as high intensity rainfall at this stage will damage the plant,</li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ Monitor for possible insect/pest attack</li> <li>❖ During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</li> <li>❖ Provide adequate drainage</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Flowering/ Seedling	Phytophthora	<ul style="list-style-type: none"> <li>• <b>Right time for seedling-follow half moon terraces with spacing of 5 meter.</b></li> <li>• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> <li>• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>• During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> </ul>
Banana	All stages	Scary beetles	<ul style="list-style-type: none"> <li>❖ <b>Earthing up followed by fertilizer application</b></li> <li>❖ Apply Malathion dust 5D inside the whorl of the plant,</li> <li>❖ Planting of new saplings may be done in present weather</li> </ul>
Ginger/ Turmeric	Germination/ Vegetative		<ul style="list-style-type: none"> <li>❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> <li>❖ <b>Proper drainage to avoid water stagnation</b></li> </ul>
Guava	Flowering		<ul style="list-style-type: none"> <li>❖ Avoid water logging in the basin,</li> <li>❖ <b>Basin cleaning in half moon system is advised,</b></li> </ul>
<b>Honey Bees</b>			
			❖ Box must be covered with straw/dry leaves to provide warmth
<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.) Swine Fever	<ul style="list-style-type: none"> <li>❖ <b>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</b></li> <li>❖ Avoid dampness and cover weak and sick animals with sack cloth.</li> <li>❖ The bedding is always dry and that there is plenty.</li> <li>❖ Animals should be given lukewarm feed and water.</li> <li>❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</li> </ul>

Fishery			<ul style="list-style-type: none"><li>❖ To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</li><li>❖ Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</li></ul>
Poultry	All stages		<ul style="list-style-type: none"><li>❖ Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</li><li>❖ Day old chick-Maintain warmth by lighting,</li><li>❖ Deworming for gastrointestinal parasite</li></ul>
Goat	All stages		
Cattle	All stages	FMD	<ul style="list-style-type: none"><li>❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</li><li>❖ Provide proper bedding materials especially to new-born and lukewarm food &amp; water</li><li>❖ Provide feed supplements</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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Agrometeorological Field Unit  
ICAR, BASAR

# कृषि मौसम सलाहकार सेवा पत्रिका

## Agro-met Advisory Bulletin

(Period: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

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

**Advisory for district: Upper Siang**



Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = 0.0 mm	<b>Mostly cloudy with possibility of rather heavy to heavy rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 27-28°C and 16-18°C respectively. Expected morning and evening relative humidity will be 90-93% and 69-78% respectively. Wind direction is mainly SE & ESE with speed range of 2-3 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Maize	Fruiting/ Mature	Stem borer Rat	<ul style="list-style-type: none"> <li>Harvest of mature cobs during clear/dry days.</li> <li>To protect the cobs from rat use of locally available traps is advised,</li> </ul>
WRC-RICE (Mipun)	Nursery		<ul style="list-style-type: none"> <li>Sowing of quality seeds in prepared nursery,</li> <li>Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.</li> </ul>
Rice	Transplantation / leaf elongation	Stem borer	<ul style="list-style-type: none"> <li><b>On anticipation of rain, provide proper drainage to the nursery/main field to avoid runoff</b></li> </ul>



			<ul style="list-style-type: none"> <li>• <b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></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>
<i>Jhum</i> rice	Leaf elongation	Leaf blast/ leaf spot/ Yellow stem borer	<ul style="list-style-type: none"> <li>• <b>On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control infestation of leaf blast &amp; leaf spot.</b></li> <li>• Collection of egg masses (Yellow cottony mass) is advised.</li> <li>• On anticipation of rain, provide proper drainage</li> <li>• Follow proper runoff management system to avoid loss of top soil due to heavy rainfall.</li> <li>• Keep the surrounding clean/ weed free to avoid disease/pest harboring</li> <li>• Manual weeding advocated during clear dry days.</li> </ul>
<b>VEGETABLES</b>			
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ <b>Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</b></li> <li>❖ <b>Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</b></li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ <b>Monitor for possible insect/pest attack</b></li> <li>❖ <b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>❖ Provide adequate drainage</li> </ul>
Cucurbits	Flowering/ Fruiting	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ <b>Monitor for possible attack of insect/pests</b></li> <li>❖ <b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>❖ <b>Cover the base of crop with locally available mulches to avoid exposure to erosion,.</b></li> </ul>
<b>HORTICULTURAL CROPS</b>			
Apple	Fruiting	Fruit drop / wooly aphids	<ul style="list-style-type: none"> <li>❖ <b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</b></li> <li>❖ <b>Application of paradichlorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</b></li> </ul>
Kiwi	Flowering	Leaf eating beetle	<ul style="list-style-type: none"> <li>❖ <b>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</b></li> <li>❖ <b>Hand collection of the insects and its destruction,</b></li> <li>❖ <b>Make proper drainage facility in the crop area</b></li> </ul>
Citrus	Flowering	Fruit drop/ Phytophthora	<ul style="list-style-type: none"> <li>• <b>Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower drop</b></li> <li>• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>• During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> <li>• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> </ul>
Ginger/ Turmeric	Sowing/ germination		<ul style="list-style-type: none"> <li>❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> </ul>
Peach	Fruit maturing	Fruit Fly	<ul style="list-style-type: none"> <li>❖ <b>Install fruit fly pheromone traps,</b></li> <li>❖ <b>Collect and dispose off the fallen fruits.</b></li> <li>❖ <b>Clean basin,</b></li> </ul>
Large cardamom	Sowing		<ul style="list-style-type: none"> <li>❖ Sowing in primary nursery bed at 2cm depth &amp; 10cm apart with mulching &amp; regular irrigation.</li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>❖ Cover newly emerged bunches with locally available sack to protect from cold/frost</li> <li>❖ <b>Mulching with straw/crop residue at root zone to avoid</b></li> </ul>

			frost injury in banana.
<b>LIVESTOCKS</b>			
<b>Livestock</b>	<b>Stage</b>	<b>Disease</b>	<b>❖ Precautionary Practices to be followed</b>
<b>❖ General</b> ❖ Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding ❖ Clean drinking water should be ensured round the clock and water troughs/feeders should be regularly cleaned,			
Fishery			❖ <b>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</b> ❖ <b>Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</b>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	❖ <b>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</b> ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Poultry	All stages		❖ <b>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</b> ❖ <b>Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis.</b>
Cattle	All stages	FMD	❖ <b>Animals should be given lukewarm feed and water.</b> ❖ <b>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</b> ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
Mithun		FMD	❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.
<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: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

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

**Advisory for district: Upper Subansiri**



Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Daporijo: 0.0 mm	Mostly cloudy with possibility of moderate to rather heavy rainfall. Daily maximum and minimum temperature for the following period is predicted to be 28-31°C and 21-22°C respectively. Expected morning and evening relative humidity will be 92-94% and 65-80% respectively. Expected wind direction is mainly SE & SSE with speed range of 3-4 kmph.
<b>Warning</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
WRC-RICE (Mipun)	Nursery		<ul style="list-style-type: none"> <li>Sowing of quality seeds in prepared nursery,</li> <li>Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.</li> </ul>
Kharif Maize	Sowing		<ul style="list-style-type: none"> <li>Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek QPM-9 etc from certified agency</li> <li>Ensure seed treatment with carbendazim/Thiram @ 2g/kg</li> </ul>

			seeds.
Toria/ Mustard	Harvesting	Aphids	<ul style="list-style-type: none"> <li>❖ <b>Harvest during clear/dry days</b></li> <li>❖ Provide adequate drainage</li> <li>❖ If the infestation is high, Spray Dimethoate 30EC @2ml/litre against aphids in Rapeseed/Mustard using sticker or during clear/dry days.</li> </ul>
<i>Jhum</i> rice	Leaf elongation/ tillering	Leaf blast/ leaf spot	<ul style="list-style-type: none"> <li>• <b>On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control heavy infestation of leaf blast &amp; leaf spot.</b></li> <li>• Provide proper drainage and soil conservation measures like mulching with locally available materials.</li> <li>• Keep the periphery clean</li> <li>• Avoid application of fertilizer and insecticides/pesticides</li> <li>• <b>Manual weeding may be done during dry days</b></li> </ul>
Rice	Transplantation / leaf elongation	Stem borer	<ul style="list-style-type: none"> <li>• <b>On anticipation of rain, provide proper drainage to the nursery/main field to avoid runoff</b></li> <li>• <b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></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>			
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ <b>Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</b></li> <li>❖ <b>Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</b></li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ <b>Monitor for possible insect/pest attack</b></li> <li>❖ <b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>❖ Provide adequate drainage</li> </ul>
Cucurbits	Flowering/ Fruiting	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ <b>Monitor for possible attack of insect/pests</b></li> <li>❖ <b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>❖ <b>Cover the base of crop with locally available mulches to avoid exposure to erosion.,</b></li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Flowering/ Seedling	Phytophthora	<ul style="list-style-type: none"> <li>• <b>Right time for seedling-follow half moon terraces with spacing of 5 meter.</b></li> <li>• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> <li>• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>• During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> </ul>
Apple	Fruiting	Fruit drop / wooly aphids	<ul style="list-style-type: none"> <li>❖ <b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</b></li> <li>❖ <b>Application of paradichlorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</b></li> </ul>
Kiwi	Flowering	Leaf eating beetle	<ul style="list-style-type: none"> <li>❖ <b>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</b></li> <li>❖ <b>Hand collection of the insects and its destruction,</b></li> <li>❖ <b>Make proper drainage facility in the crop area</b></li> </ul>
Ginger/ Turmeric	Germination/ Vegetative		<ul style="list-style-type: none"> <li>❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> </ul>

			❖ <b>Proper drainage to avoid water stagnation</b>
Peach	Fruit maturing	Fruit Fly	❖ <b>Install fruit fly pheromone traps,</b> ❖ <b>Collect and dispose off the fallen fruits.</b> ❖ <b>Clean basin,</b>
Temperate fruits	After harvesting		❖ Training & pruning of the temperate crops (apple/pears/peach) is recommended
<b>Honey Bees</b>			
Honey bees			❖ Provide sugar syrup near the box ❖ Add insulation and ventilation systems
<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.) Swine Fever	❖ <b>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</b> ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			❖ <b>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</b>
Poultry	All stages		❖ <b>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</b> ❖ Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis.
Cattle	All stages	FMD	❖ <b>Animals should be given lukewarm feed and water.</b> ❖ <b>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</b> ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Provide feed supplements
Mithun		FMD	❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.
<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: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

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

**Advisory for district: West Kameng**



Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = Bomdila: NA ; Bhalukpong: 17.0 mm; Kalaktang: 20.2 mm	<b>Mostly cloudy with possibility rather heavy/heavy rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 24-26°C and 15-17°C respectively. Expected morning and evening relative humidity will be 97-99% and 66-85% respectively. Wind direction is mainly ESE & SE with speed range of 2-3 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
Maize	Fruiting/ Mature	Stem borer Rat	<ul style="list-style-type: none"> <li>Harvest of mature cobs during clear/dry days.</li> <li>To protect the cobs from rat use of locally available traps is advised,</li> </ul>
Jhum rice	Leaf elongation	Leaf blast/	<ul style="list-style-type: none"> <li>On clear/sunny days, spray carbendazim @2g/lit water in</li> </ul>

		leaf spot/ Yellow stem borer	<b>jhum field to control infestation of leaf blast &amp; leaf spot.</b> <ul style="list-style-type: none"> <li>Collection of egg masses (Yellow cottony mass) is advised.</li> <li>On anticipation of rain, provide proper drainage</li> <li>Follow proper runoff management system to avoid loss of top soil due to heavy rainfall.</li> <li>Keep the surrounding clean/ weed free to avoid disease/pest harboring</li> <li>Manual weeding advocated during clear dry days.</li> </ul>
Rice	Transplantation / leaf elongation	Stem borer	<ul style="list-style-type: none"> <li><b>On anticipation of rain, provide proper drainage to the nursery/main field to avoid runoff</b></li> <li><b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></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>			
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li><b>Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</b></li> <li><b>Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</b></li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li><b>Monitor for possible insect/pest attack</b></li> <li><b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li>Provide adequate drainage</li> </ul>
Cucurbits	Flowering/ Fruiting	Leaf eating insects	<ul style="list-style-type: none"> <li><b>Monitor for possible attack of insect/pests</b></li> <li><b>During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</b></li> <li><b>Cover the base of crop with locally available mulches to avoid exposure to erosion,.</b></li> </ul>
<b>HORTICULTURAL CROPS</b>			
Apple	Fruiting	Fruit drop / wooly aphids	<ul style="list-style-type: none"> <li><b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</b></li> <li><b>Application of paradichlorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</b></li> </ul>
Kiwi	Flowering	Leaf eating beetle	<ul style="list-style-type: none"> <li><b>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</b></li> <li><b>Hand collection of the insects and its destruction,</b></li> <li><b>Make proper drainage facility in the crop area</b></li> </ul>
Citrus	Flowering	Fruit drop/ Phytophthora	<ul style="list-style-type: none"> <li><b>Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower drop</b></li> <li>During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> <li>Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> </ul>
Ginger/ Turmeric	Germination/ Vegetative		<ul style="list-style-type: none"> <li><b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> <li><b>Proper drainage to avoid water stagnation</b></li> </ul>
Peach	Fruit maturing	Fruit Fly	<ul style="list-style-type: none"> <li><b>Install fruit fly pheromone traps,</b></li> <li><b>Collect and dispose off the fallen fruits.</b></li> <li><b>Clean basin,</b></li> </ul>
Banana	Bunching	Cold	<ul style="list-style-type: none"> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</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.) Swine Fever	❖ <b>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</b> ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			❖ <b>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</b>
Yak	All stages		❖ <b>Feeding of concentrate feed along with mineral mixture and salt.</b> ❖ <b>Hay feeding is recommended.</b>
Poultry	All stages		❖ <b>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</b> ❖ Day old chick-Maintain warmth by lighting, ❖ In present weather conditions protect the birds from cold by using gunny bags/plastic sheets around the poultry shed during night, ❖ Provide heat by lighting 100W bulb @ 1 bulb per 20 newly born chicks.
Cattle	All stages	FMD	❖ <b>Animals should be given lukewarm feed and water.</b> ❖ <b>Right time to deworm with anti helmetic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</b> ❖ Provide proper bedding materials especially to new-born and lukewarm food & water ❖ Heavy mortality in cloven footed animals has been reported. ❖ Supportive treatment of infected animals under supervision of veterinary department officials, ❖ Avoid mixing of infected and healthy animals, ❖ Keep infected animals separated from the healthy ones, ❖ Vaccinate the healthy animals against FMD (Through State Veterinary Dept.) ❖ Provide feed supplements
Mithun		FMD	❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.
<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: 13<sup>th</sup> to 17<sup>th</sup> June, 2018)

No: AMFU-Basar/2018/47

Dated: Tue, 12<sup>th</sup> June, 2018

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

**Advisory for district: West Siang**



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

Weather summary of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall: 5.2 mm, Max. T: 35.0°C, Min. T: 18.7°C, Wind Speed: 3-6 km/h, RH: 48-90%, Wind Direction: NNW & WNW	<b>Mostly cloudy with possibility of rather heavy to heavy rainfall.</b> Daily maximum and minimum temperature for the following period is predicted to be 29-32°C and 21-23°C respectively. Expected morning and evening relative humidity will be 88-92% and 65-77% respectively. Wind direction is mainly E & ESE with speed range of 3-4 kmph.
<b>Warning:</b>	<ul style="list-style-type: none"> <li>Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th &amp; 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and 16th June '18</li> </ul>

### GENERAL RECOMMENDATIONS

**On anticipation of heavy rainfall:**

- Suspend all spray operations
- Do not go for fertilizer/manure applications
- Proper drainage to all crop to avoid runoff

### DETAILS OF ADVISORIES FOR THE PERIOD

Crop	Stage	Pest/Disease	Precautionary Practices to be followed
<b>FIELD CROPS</b>			
WRC-RICE (Normal sown)	Nursery		<ul style="list-style-type: none"> <li>Sowing of quality seeds in prepared nursery</li> <li><b>Recommended varieties: Amham, Vandana, RCM-7,10,11, CAUR-1, Ranjit</b></li> <li>Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.</li> </ul>

Kharif Maize	Sowing		<ul style="list-style-type: none"> <li>❖ Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek QPM-9 etc from certified agency</li> <li>❖ Ensure seed treatment with carbendazim/Thiram @2g/kg seeds.</li> </ul>
Rice (Early sown)	Leaf Elongation/ Tillering	Stem borer	<ul style="list-style-type: none"> <li>❖ <b>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</b></li> <li>❖ Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.</li> </ul>
Jhum rice	Leaf elongation/ tillering	Leaf blast/ leaf spot	<ul style="list-style-type: none"> <li>❖ <b>On clear/sunny days, spray carbendazim @2g/lit water in jhum field to control heavy infestation of leaf blast &amp; leaf spot.</b></li> <li>❖ Provide proper drainage and soil conservation measures like mulching with locally available materials.</li> <li>❖ Keep the periphery clean</li> <li>❖ Avoid application of fertilizer and insecticides/pesticides</li> <li>❖ <b>Manual weeding may be done during dry days</b></li> </ul>
Maize	Fruiting/ Mature	Stem borer Rat	<ul style="list-style-type: none"> <li>❖ <b>Harvest of mature cobs during clear/dry days.</b></li> <li>❖ <b>To protect the cobs from rat use of locally available traps is advised,</b></li> </ul>
<b>VEGETABLES</b>			
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	<ul style="list-style-type: none"> <li>❖ <b>Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade</b></li> </ul>
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul style="list-style-type: none"> <li>❖ Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</li> <li>❖ Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,</li> </ul>
Sponge, bitter, ash & ridge gourd, pumpkin, cucumber	Vegetative/ Fruiting	Fruit fly	<ul style="list-style-type: none"> <li>❖ Use traps to capture adult fruit fly,</li> <li>❖ Provide support to the plants to climb, as high intensity rainfall at this stage will damage the plant,</li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul style="list-style-type: none"> <li>❖ Monitor for possible insect/pest attack</li> <li>❖ During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.</li> <li>❖ Provide adequate drainage</li> </ul>
<b>HORTICULTURAL CROPS</b>			
Citrus	Flowering/ Seedling	Phytophthora	<ul style="list-style-type: none"> <li>• <b>Right time for seedling-follow half moon terraces with spacing of 5 meter.</b></li> <li>• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.</li> <li>• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.</li> <li>• During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.</li> </ul>
Ginger/ Turmeric	Germination/ Vegetative		<ul style="list-style-type: none"> <li>❖ <b>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination, prevent washing off during heavy rainfall, add organic matter to the soil &amp; conserve moisture during dry seasons.</b></li> <li>❖ <b>Proper drainage to avoid water stagnation</b></li> </ul>
Apple	Fruiting	Fruit drop / wooly aphids	<ul style="list-style-type: none"> <li>❖ <b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</b></li> <li>❖ <b>Application of paradichlorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</b></li> </ul>
Kiwi	Flowering	Leaf eating beetle	<ul style="list-style-type: none"> <li>❖ <b>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</b></li> <li>❖ <b>Hand collection of the insects and its destruction,</b></li> <li>❖ <b>Make proper drainage facility in the crop area</b></li> </ul>
Peach	Fruit maturing	Fruit Fly	<ul style="list-style-type: none"> <li>❖ <b>Install fruit fly pheromone traps,</b></li> <li>❖ <b>Collect and dispose off the fallen fruits.</b></li> <li>❖ <b>Clean basin,</b></li> </ul>
Guava	Flowering		<ul style="list-style-type: none"> <li>❖ <b>Avoid water logging in the basin,</b></li> <li>❖ <b>Basin cleaning in half moon system is advised,</b></li> </ul>



Banana	All stages	Scary beetles	❖ <b>Earthing up followed by fertilizer application</b> ❖ Apply Malathion dust 5D inside the whorl of the plant, ❖ Planting of new saplings may be done in present weather
Large cardamom	Sowing		❖ Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation. ❖ <b>Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.</b>
<b>HONEY BEES</b>			
Honey bees			❖ Cover the boxes with locally available dry grass or straw to provide warmth
<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.) Swine Fever	❖ <b>Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.</b> ❖ Avoid dampness and cover weak and sick animals with sack cloth. ❖ The bedding is always dry and that there is plenty. ❖ Animals should be given lukewarm feed and water. ❖ Right time to deworm with anti helminthic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Fishery			❖ <b>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</b>
Poultry	All stages		❖ <b>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</b> ❖ Day old chick-Maintain warmth by lighting, ❖ <b>Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis.</b>
Cattle	All stages	FMD	❖ <b>Animals should be given lukewarm feed and water.</b> ❖ <b>Right time to deworm with anti helminthic drugs (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.</b> ❖ Provide feed supplements
Mithun		FMD	❖ Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by sub-cutaneous route. ❖ Pregnant animals above 7 months of pregnancy should be avoided.
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