## **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th 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 summery 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.
Warning:	• Nil

On anti • Suspend • Do not	RAL RECOMMEN icipation of heavy d all spray operati go for fertilizer/ma drainage to all cro	rainfall: ons anure application op to avoid runoff	
	-		DVISORIES FOR THE PERIOD
Crop	Stage	<b>Pest/Disease</b>	Precautionary Practices to be followed
FIELD CROPS	5		
Jhum rice	Leaf elongation/ tillering	Leaf blast/ leaf spot/ Yellow stem borer	<ul> <li>On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control infestation of leaf blast &amp; leaf spot.</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			nursery/main field to avoid runoff
	elongation		*	Rice: Weed free & clean nursery periphery to prevent
				disease/pest harboring.
			*	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/	Stem borer	*	Harvest of mature cobs during clear/dry days.
	Mature	Rat	*	To protect the cobs from rat use of locally available traps
	q			is advised,
<b>VEGETABLE</b> Vegetables	S Vegetative	Loof opting	*	Monitor for possible insect/pest attack
vegetables	vegetative	Leaf eating insects	*	During clear dry days or using stickers, foliar spray of
		mseets	•	Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.
			*	Provide adequate drainage
French Bean,	Vegetative/	Bean borer	*	
black gram,	Fruiting			plant should be earthened up,
green gram.	-		*	Any type of caterpillar observed in the field may be manually
				collected and destroyed in the dusk hours in the crop field,
Chilli/ tomato/	Vegetative/	Leaf Curl	*	Spray imidacloprid 17.8 SL (0.003%) to the crops
brinjal	Flowering			inside net/green house or grown in shade
HORTICULT				
Peach	Fruit maturing	Fruit Fly		Install fruit fly pheromone traps,
			***	Collect and dispose off the fallen fruits.
			*	
Apple	Fruiting	Fruit drop /	*	Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to
		wooly aphids		inhibit fruit drop
			*	Application of paradiclorobenzene at 2 meter away
				from the trunk is advised against wooly aphids during
<b>V</b> ''	<b>T</b> 1	T C ···	*	clear/dry days
Kiwi	Flowering	Leaf eating	***	Kiwi fruit vine should be covered with 50% shade net to
		beetle		protect flowers from heavy rain and hail storm.
			*	Hand collection of the insects and its destruction,
			*	Make proper drainage facility in the crop area
Citrus	Flowering	Fruit drop/	•	Foliar application of micronutrient/multiplex @ 0.2%
		Phytophthora		should be done to prevent flower drop
			•	During clear dry days, apply Bordeaux paste on the tree trunk
				upto the height of 24 inches by brush.
			•	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.
			•	Prepare half moon terraces for fruit crops
			-	(orange/banana/apple/peach) in steep slopes to prevent
				nutrient loss due to rain.
Ginger/ Turmeric	Germination/		*	
-	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
Banana	Bunching	Cold	*	· · · · · · · · · · · · · · · · · · ·
	~ .			protect from cold/frost
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.
LIVESTOCKS				e sky plant during tien/ary days.
Livestock	Stage	Disease		Precautionary Practices to be followed
Pigs	All stages	FMD (high fever	*	Food waste or garbage fed to swine must be cooked and
0~		and appearance	•	sterilized properly. Cooking the different raw materials
		of mucous		together is advocated to improve digestibility and to
		membrane of the		break- down toxins from some feeds.
		mouth and foot.)	•	
		,	<b>ATA</b>	Avoid domnings and cover wook and easy animals with cook
		Swine Fever	*	Avoid dampness and cover weak and sick animals with sack
		,		cloth.
		,		*

			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.
			Avoid rearing day old chicks
Fishery			<ul> <li>To avoid water turbidity, use grass turfing or horticultural crop</li> </ul>
			at embankment/dyke of the earthen fish pond.
			Broadcast mustard Oil Cake (MOC) @5kg/day over the pond
			twice daily to feed fish fingerlings.
Cattle	All stages	FMD	Deworming using antihelmintic drugs like
			Oxyclozanide/ Pyrantel.
			<ul> <li>Right time to deworm with anti helmetic drugs (particularly</li> </ul>
			Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
			<ul> <li>Provide proper bedding materials especially to new-born and</li> </ul>
			lukewarm food & water
			<ul> <li>Provide feed supplements</li> </ul>
Mithun		FMD	Polyvalent FMD vaccine with serotype 0, A and Asia at 6
			months of age and repeat after that 6 months interval by
			sub-cutaneous route. Pregnant animals above 7 months of
			pregnancy should be avoided from vaccination.
Contact Sci	ientists (ICAR) or St	ate Agril Staff or 1	KVK staff for measures against adverse conditions or call at 03795- 226237/226247

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th 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 summery of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = Changlang: 0.0 mm Miao: 0.8	Mostly cloudy with possibility of moderate to rather heavy rain.
mm	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.
Warning	• Heavy rain is very likely to occur at isolated places on 12th,
	13th, 14th & 16th June, '18 and heavy to very heavy rainfall is
	very likely to occur at isolated places on 15th and16th June'18

#### 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

		<b>DETAILS OF A</b>	DVISORIES FOR THE PERIOD			
Crop	Stage	Pest/Disease Precautionary Practices to be followed				
FIELD CROPS	FIELD CROPS					
Kharif Maize	Sowing		<ul> <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	• On clear/sunny days, spray carbendazim @2g/lit water in			

	tillering		jhum field to control heavy infestation of leaf blast & leaf
			<ul> <li>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>Manual weeding may be done during dry days</li> </ul>
Rice (Early sown)	Leaf Elongation/ Tillering	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rise nursery as well as in main field.</li> </ul>
WRC-RICE (Normal sown)	Nursery		<ul> <li>rice nursery as well as in main field.</li> <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>
Maize	Pod formation	Soybean looper	<ul> <li>Provide proper drainage</li> <li>Spray Azadirachtin 0.15% EC 2@ 6ml/lit against Soybean looper during clear dry days.</li> <li>Monitor the crop against attack of insect pests,</li> </ul>
VEGETABLE	<b>1</b>	· · · · ·	
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul> <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>
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	<ul> <li>Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade</li> </ul>
Vegetables	Vegetative	Leaf eating insects	<ul> <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> <li>Provide adequate draftage</li> <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>
	URAL CROPS		
Ginger/ Turmeric	Germination/ Vegetative		<ul> <li>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.</li> <li>Proper drainage to avoid water stagnation</li> <li>Manual weeding during clear/dry days</li> </ul>
Banana	All stages	Scary beetles	<ul> <li>Earthing up followed by fertilizer application</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> <li>Right time for seedling-follow half moon terraces with spacing of 5 meter.</li> <li>Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to preven 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 or the tree against Phytophthora.</li> </ul>
Guava	Flowering fruiting		<ul> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> </ul>
Large cardamom	Sowing		<ul> <li>Sowing in primary nursery bed at 2cm depth &amp; 10cm apart with mulching &amp; regular irrigation.</li> <li>Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.</li> </ul>

oney bees	<ul> <li>Box must be covered with straw/dry leaves to provide</li> </ul>
	warmth
	<ul> <li>Provide sugar syrup</li> </ul>
IVESTOCKS	
Livestock Stage Disease	<ul> <li>Precautionary Practices to be followed</li> </ul>
Fishery	To avoid water turbidity, use grass turfing or horticultura
	crop at embankment/dyke of the earthen fish pond.
	Broadcast mustard Oil Cake (MOC) @5kg/day over th
	pond twice daily to feed fish fingerlings.
Pigs All stages FMD (high fever	Food waste or garbage fed to swine must be cooked and
and appearance	sterilized properly. Cooking the different raw materials
of mucous	together is advocated to improve digestibility and to
membrane of the	break- down toxins from some feeds.
mouth and foot.) Swine Fever	• Avoid dampness and cover weak and sick animals with sack
Swille Fever	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.
Goat All stages	<ul> <li>Deworming for gastrointestinal parasite</li> </ul>
Cattle All stages FMD	<ul> <li>Right time to deworm with anti helmetic drugs</li> </ul>
	(particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3
	kg body weight.
	<ul> <li>Provide proper bedding materials especially to new-born an lukewarm food &amp; water</li> </ul>
	<ul> <li>Provide feed supplements</li> </ul>
Contact Scientists (ICAD) on State Agril Staff	or KVK staff for measures against adverse conditions or call

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

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### GRAMIN KRISHI MAUSAM SEWA

#### (Integrated Agro-Meteorological Advisory Services)

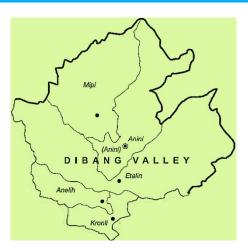






AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

### **Advisory for district: Upper Dibang Valley**



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

Weather summery 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</b> <b>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.
Warning:	• Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th & 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and16th June'18

On antie Suspend Do not g	AL RECOMMEN cipation of heavy 1 l all spray operation go for fertilizer/man drainage to all cro	ainfall: ons nure applications p to avoid runoff	DVISORIES FOR THE PERIOD
Сгор	Stage	Pest/Disease	Precautionary Practices to be followed
FIELD CROPS			
WRC-RICE (Mipun)	Nursery		<ul> <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	• On anticipation of rain, provide proper drainage to the nursery/main field to avoid runoff

			•	Rice: Weed free & clean nursery periphery to prevent disease/pest harboring.
Jhum rice	Leaf elongation	Leaf blast/ leaf spot/ Yellow stem borer	•	On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control infestation of leaf blast & leaf spot. Collection of egg masses (Yellow cottony mass) is advised. On anticipation of rain, provide proper drainage Follow proper runoff management system to avoid loss of top soil due to heavy rainfall. Keep the surrounding clean/ weed free to avoid disease/pest harboring Manual weeding advocated during clear dry days.
Maize	Fruiting/ Mature	Stem borer Rat	*	Harvest of mature cobs during clear/dry days. To protect the cobs from rat use of locally available traps is advised,
VEGETABLE	S			is auviscu,
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,
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
HORTICULT	URAL CROPS	I	-	
Apple	Fruiting	Fruit drop / wooly aphids	* *	Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days
Kiwi	Flowering	Leaf eating beetle	* *	Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm. Hand collection of the insects and its destruction, Make proper drainage facility in the crop area
Ginger/ Turmeric	Germination/ Vegetative		*	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 & conserve moisture during dry seasons. Proper drainage to avoid water stagnation
Citrus	Flowering	Fruit drop/ Phytophthora	•	Foliar application of micronutrient/multiplex @ 0.2%should be done to prevent flower dropDuring clear dry days, apply Bordeaux paste on the tree trunkupto the height of 24 inches by brush.During clear dry days or using stickers during rain, sprayingand drenching with metalaxyl MZ-72 @ 2.75 g/lit water onthe tree against Phytophthora.Prepare half moon terraces for fruit crops(orange/banana/apple/peach) in steep slopes to preventnutrient loss due to rain.
Peach	Fruit maturing	Fruit Fly	*	Install fruit fly pheromone traps, Collect and dispose off the fallen fruits. Clean basin,
Large cardamom	Sowing		*	Sowing in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation.
Honey Bees				
Honey bees			*	Cover the boxes with locally available dry grass or straw to provide warmth Provide sugar syrup in a bowl in front of the box in case of heavy rainfall
LIVESTOCKS				
Livestock	Stage	Disease		Precautionary Practices to be followed
Fishery			*	To avoid water turbidity, use grass turfing or horticultural

			<ul> <li>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>
Pigs	All stages	FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <li>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.</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>
Poultry	All stages		<ul> <li>Provide shelter to the backyard/scavenging poultry. Fee grains in the morning/evening to supplement scavenging.</li> <li>Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.</li> </ul>
Cattle	All stages	FMD	<ul> <li>Right time to deworm with anti helmetic drugs         (particularly Tapeworms) viz. Fento Plus @ 1 tablet per 3         kg body weight.</li> <li>Supportive treatment of infected animals under supervision of         veterinary department officials,</li> <li>Avoid mixing of infected and healthy animals,</li> <li>Keep infected animals separated from the healthy ones,</li> <li>Vaccinate the healthy animals against FMD (Through Stat         Veterinary Dept.)</li> <li>Provide feed supplements</li> </ul>
Mithun		FMD	<ul> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 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>

# **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 Kameng



Weather summery of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = 0.2 mm	<b>Mostly cloudy with possibility moderate to heavy rain.</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 95-97% and 59-75% respectively. Expected wind direction is mainly E & ESE with speed range of 2-3 kmph.
Warning:	• Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th & 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and16th June'18

On antic • Suspend • Do not g		rainfall:		
		<b>DETAILS OF A</b>	DVISORIES FOR THE PERIOD	
Сгор	Stage	Pest/Disease	Precautionary Practices to be followed	
FIELD CROPS				
Kharif Maize	Sowing		<ul> <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	• On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control heavy infestation of leaf blast & leaf spot.	

	~			General
Livestock	Stage	Disease		Precautionary Practices to be followed
Large Cardamom	flowering stage		*	Provide proper drainage to avoid water stagnation in the base of the plants.
Less Carl	Manadationa (			Mulching with straw/crop residue at root zone to avoid frost injury in banana.
Banana	Bunching	Cold	*	nutrient loss due to rain. Cover newly emerged bunches with locally available sack to protect from cold/frost
Citrus	Flowering	Bark eating caterpillar	•	Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent
-	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
HORTICULT Ginger/ Turmeric	Germination/		*	Mulching ginger beds with locally available
HODTICULT				avoid exposure to erosion,.
				Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects. Cover the base of crop with locally available mulches to
Cucurbits	Flowering/ Fruiting	Leaf eating insects		Provide adequate drainage Monitor for possible attack of insect/pests During clear dry days or using stickers, foliar spray of
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.
green gram.		Lecfert	*	Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,
brinjal French Bean, black gram,	Flowering Vegetative/ Fruiting	Bean borer	*	inside net/green house or grown in shade Because of heavy rainfall the exposed roots portion of the plant should be earthened up,
Chilli/ tomato/	Vegetative/	Leaf Curl		GETABLES Spray imidacloprid 17.8 SL (0.003%) to the crops
				will reduce the carryover of the infestation to the main field.
			•	rice nursery as well as in main field. Cut the tips of the leaves before transplanting reduces the population of stem borer as the eggs are laid on that site. It
	n/ leaf elongation		•	disease/pest harboring. Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in
Rice	Transplantatio	Stem borer	* *	Spray Azadirachtin 0.15% EC 2@ 6ml/lit Monitor the crop against attack of insect pests, Rice: Weed free & clean nursery periphery to prevent
Maize	Pod formation	Soybean looper	•	Manual weeding may be done during dry days Provide proper drainage
			•	mulching with locally available materials. Keep the periphery clean Avoid application of fertilizer and insecticides/pesticides

cleaned,					
Pigs	All stages	FMD (high fever	*	Food waste or garbage fed to swine must be cooked and	
		and appearance of mucous membrane of the	of mucous		sterilized properly. Cooking the different raw materials together is advocated to improve digestibility and to break- down toxins from some feeds.
		mouth and foot.)	*	Avoid dampness and cover weak and sick animals with sack	
		Swine Fever		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.	
Pigs	All stages		*	Avoid dampness and cover weak and sick animals with	

			*	sack cloth. 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			*	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.
Cattle	All stages	FMD	*	Right time to deworm with anti helmetic drugs(particularly Tapeworms) viz. Fento Plus @ 1 tablet per 30kg body weight.Provide proper bedding materials especially to new-born andlukewarm food & waterProvide feed supplements
Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795- 226237/226247				

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th 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 summery 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:	Mostly cloudy with possibility of moderate to heavy rainfall.
25.0°C ; RH: 49-72%	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.
Warning:	• Heavy rain is very likely to occur at isolated places on 12th,
	13th, 14th & 16th June, '18 and heavy to very heavy rainfall is
	very likely to occur at isolated places on 15th and16th June'18

### Weather Based Agro-meteorological Advisories Bulletin

On antic • Suspend • Do not ge		rainfall:	
Crop	Stage	Pest/Disease Precautionary Practices to be followed	
FIELD CROPS	5		
Kharif Maize	Sowing		<ul> <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>

		1		
WRC-RICE (Normal sown)	Nursery		* * *	Sowing of quality seeds in prepared nursery <b>Recommended varieties: Amham, Vandana, RCM-7,10,11,</b> <b>CAUR-1, Ranjit</b> Before sowing, treat seeds with solution of Carbandazim 50WP @ 1 grams in one litre of water per kilogram of seeds.
Rice	Leaf Elongation/ Tillering	Stem borer	•	Rice: Weed free & clean nursery periphery to prevent disease/pest harboring. Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.
Jhum rice	Leaf elongation/ tillering	Leaf blast/ leaf spot	•	On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control heavy infestation of leaf blast & leaf spot. Provide proper drainage and soil conservation measures like mulching with locally available materials. Keep the periphery clean Avoid application of fertilizer and insecticides/pesticides Manual weeding may be done during dry days
Maize	Pod formation	Soybean looper	* * *	Provide proper drainage Spray Azadirachtin 0.15% EC 2@ 6ml/lit Monitor the crop against attack of insect pests,
VEGETABLE Chilli/ tomato/	S Vegetative/	Leaf Curl	*	Spray imidacloprid 17.8 SL (0.003%) to the crops
brinjal	Flowering			inside net/green house or grown in shade
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,
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
HORTICULT	URAL CROPS			
Citrus	Flowering/ Seedling	Phytophthora	•	<b>Right time for seedling-follow half moon terraces with spacing of 5 meter.</b> Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain. During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush. 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.
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
Apple	Fruiting	Fruit drop / wooly aphids	* *	Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days
Kiwi	Flowering	Leaf eating beetle	* * *	Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm. Hand collection of the insects and its destruction, Make proper drainage facility in the crop area
Guava	Flowering		*	Avoid water logging in the basin, Basin cleaning in half moon system is advised,
Ginger/ Turmeric	Germination/		*	Mulching ginger beds with locally available

	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.
Honey Bees				
Honey bees			*	Cover the boxes with locally available dry grass or straw to provide warmth
LIVESTOCKS	5			
Livestock	Stage	Disease		Precautionary Practices to be followed
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 Goat	All stages 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 cocciodiosis. 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

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th June, 2018

ग्रामीण कृषि मौसम सेवा

### GRAMIN KRISHI MAUSAM SEWA

#### (Integrated Agro-Meteorological Advisory Services)

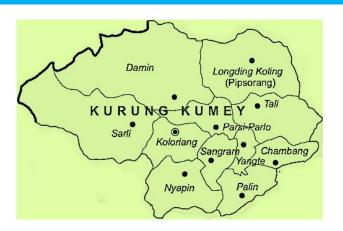






#### AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

## Advisory for district: Kurung Kumey



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

Weather summery of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018		
Rainfall (Koloriang): 0.6 mm	Mostly cloudy with possibility of rather heavy to heavy rain.		
	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.		
Warning	• Heavy rain is very likely to occur at isolated places on 12th,		
	13th, 14th & 16th June, '18 and heavy to very heavy rainfall is		
	very likely to occur at isolated places on 15th and16th June'18		

On antic • Suspend • Do not g					
	DETAILS OF ADVISORIES FOR THE PERIOD				
Crop	Stage	Pest/Disease	Precautionary Practices to be followed		
FIELD CROP	S				
Jhum rice	Leaf elongation	Leaf blast/ leaf spot/ Yellow stem borer	<ul> <li>On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control infestation of leaf blast &amp; leaf spot.</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>		

			top soil due to heavy rainfall.
			• Keep the surrounding clean/ weed free to avoid disease/pest harboring
			<ul> <li>Manual weeding advocated during clear dry days.</li> </ul>
Rice	Transplantation	Stem borer	• On anticipation of rain, provide proper drainage to the
	/ leaf		nursery/main field to avoid runoff
	elongation		• Rice: Weed free & clean nursery periphery to prevent
			disease/pest harboring.
			• 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	<ul> <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>
Pea	Maturity	Powdery	<ul> <li>Green pods can he harvested during sunny days</li> </ul>
		mildew/ leaf	<ul> <li>Provide adequate drainage and avoid water stagnation near the</li> </ul>
		eating insects	base of the plants.
			$\clubsuit$ Need based foliar spray of Dinocap (0.2%) or Carbendazim
			50WP (0.1%) or Propiconazole (0.1%) using sticker if the
			infestation is high.
VEGETABL			
French Bean, black gram,	Vegetative/ Fruiting	Bean borer	<ul> <li>Because of heavy rainfall the exposed roots portion of the plant should be earthened up,</li> </ul>
green gram.	Tutting		<ul> <li>Any type of caterpillar observed in the field may be</li> </ul>
8 . 8 .			manually collected and destroyed in the dusk hours in the
			crop field,
Vegetables	Vegetative	Leaf eating	<ul> <li>Monitor for possible insect/pest attack</li> <li>During clean drug days on using stickers, folian group of</li> </ul>
		insects	✤ During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating
			insects.
			<ul> <li>Provide adequate drainage</li> </ul>
Cucurbits	Flowering/	Leaf eating	<ul> <li>Monitor for possible attack of insect/pests</li> </ul>
	Fruiting	insects	During clear dry days or using stickers, foliar spray of Anodimentation 0.15% EC 20% (ml/lit enginest loop esting)
			Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.
			<ul> <li>Cover the base of crop with locally available mulches</li> </ul>
			to avoid exposure to erosion,.
HORTICUL	<b>FURAL CROPS</b>		
Citrus	Flowering	Fruit drop/	• Foliar application of micronutrient/multiplex @ 0.2%
		Phytophthora	should be done to prevent flower drop
			• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.
			<ul> <li>During clear dry days or using stickers during rain, spraying</li> </ul>
			and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on
			the tree against Phytophthora.
			• Prepare half moon terraces for fruit crops
			(orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.
Apple	Fruiting	Fruit drop /	Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to
	8	wooly aphids	inhibit fruit drop
			<ul> <li>Application of paradiclorobenzene at 2 meter away</li> </ul>
			from the trunk is advised against wooly aphids during
IZ ::		T C ···	clear/dry days
Kiwi	Flowering	Leaf eating beetle	Kiwi fruit vine should be covered with 50% shade net to protect flowers from beau rain and beil storm
		beeue	<ul> <li>protect flowers from heavy rain and hail storm.</li> <li>Hand collection of the insects and its destruction,</li> </ul>
Peach	Emit motorin -	Fruit Fly	<ul> <li>Make proper drainage facility in the crop area</li> <li>Install fruit fly phonemone trong</li> </ul>
	Fruit maturing	FIUIL FIY	<ul> <li>Install fruit fly pheromone traps,</li> <li>Collect and dispose off the fallen fruits.</li> </ul>
			<ul> <li>Conect and dispose on the ranen fruits.</li> <li>Clean basin,</li> </ul>
Large cardamon	n Sowing		<ul> <li>Sowing in primary nursery bed at 2cm depth &amp; 10cm apart</li> </ul>
			with mulching & regular irrigation.

Temperate fruits	After harvesting		*	Training & pruning of the temperate crops (apple/pears/peach)
			*	is recommended In case of flowering, stop spraying insecticides/pesticides
Pineapple	Harvesting			After winter harvest, collection/Selection of suckers & slip
	<b>,</b>		•	to be done for next season planting
Ginger/ Turmeric			*	Mulching ginger beds with locally available
	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
Banana	Bunching	Cold		Cover newly emerged bunches with locally available sack to
Janana	Dunening	Cold	•	protect from cold/frost
			*	Mulching with straw/crop residue at root zone to avoid
				frost injury in banana.
Honey Bees				
			*	Box must be covered with straw/dry leaves to provide
				warmth
LIVESTOCKS	5			
General				
Damage	d grain (not fung	us contaminated) (	o be di	verted for Poultry/livestock feeding
0	0			the clock and water troughs/feeders should be regular
cleaned,	0			5
Livestock	Stage	Disease		Precautionary Practices to be followed
Fishery			*	To avoid water turbidity, use grass turfing or horticultural
1 Isher y				crop at embankment/dyke of the earthen fish pond.
			*	
			*	Broadcast mustard Oil Cake (MOC) @5kg/day over the
Pigs	All stages	FMD (high fever		Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.
Pigs	All stages	FMD (high fever and appearance		Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings. Food waste or garbage fed to swine must be cooked and
Pigs	All stages	FMD (high fever and appearance of mucous		Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings. Food waste or garbage fed to swine must be cooked and sterilized properly. Cooking the different raw materials
Pigs	All stages	and appearance		Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings. 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
Pigs	All stages	and appearance of mucous membrane of the mouth and foot.)	*	Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings. 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.
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		and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * * *	<ul> <li>Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</li> <li>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.</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>
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Cattle	All stages	and appearance of mucous membrane of the mouth and foot.) Swine Fever	* * * * *	<ul> <li>Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</li> <li>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.</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> <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> <li>Provide shelter to the backyard/scavenging poultry. Feed</li> </ul>
Cattle	All stages	and appearance of mucous membrane of the mouth and foot.) Swine Fever FMD	* * * * *	<ul> <li>Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</li> <li>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.</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> <li>Right time to deworm with anti helmetic drugs</li> <li>(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> <li>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</li> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6</li> </ul>
Cattle	All stages	and appearance of mucous membrane of the mouth and foot.) Swine Fever FMD	* * * * * *	<ul> <li>Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</li> <li>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.</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> <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> <li>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</li> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route.</li> </ul>
Cattle	All stages	and appearance of mucous membrane of the mouth and foot.) Swine Fever FMD	* * * * * *	<ul> <li>Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</li> <li>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.</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> <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> <li>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</li> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be</li> </ul>
Cattle Poultry Mithun	All stages All stages	and appearance of mucous membrane of the mouth and foot.) Swine Fever FMD	* * * * * *	<ul> <li>Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.</li> <li>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.</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> <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> <li>Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.</li> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route.</li> </ul>

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th June, 2018

ग्रामीण कृषि मौसम सेवा

## GRAMIN KRISHI MAUSAM SEWA

#### (Integrated Agro-Meteorological Advisory Services)

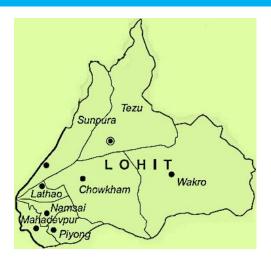






#### AMFU, ICAR Research Complex for NEH Region Arunachal Pradesh Centre, Basar-791101

### **Advisory for district: Lohit**



Weather summery of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = 1.5 mm	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 96-99% and 63-80%
	respectively. Wind direction is mainly E & ENE with speed range of
	3-5 kmph.
Warning:	• Heavy rain is very likely to occur at isolated places on 12th, 13th,
	14th & 16th June, '18 and heavy to very heavy rainfall is very
	likely to occur at isolated places on 15th and16th June'18

On antic Suspend Do not g		rainfall: ons anure applications op to avoid runoff		
		<b>DETAILS OF A</b>	<b>DVISOI</b>	RIES FOR THE PERIOD
Crop	Stage	Pest/Disease		Precautionary Practices to be followed
FIELD CROPS	S			
Kharif Maize	Sowing			<b>Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek</b> <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	•	On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control heavy infestation of leaf blast & leaf spot.

· · · · · · · · · · · · · · · · · · ·			
			Provide proper drainage and soil conservation measures like     mulabing with logally available metarials
			mulching with locally available materials.
			• Keep the periphery clean
			Avoid application of fertilizer and insecticides/pesticides
			Manual weeding may be done during dry days
Rice	Leaf	Stem borer	• Rice: Weed free & clean nursery periphery to preven
	Elongation/		disease/pest harboring.
	Tillering		• Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in
			rice nursery as well as in main field.
WRC-RICE	Nursery		<ul> <li>Sowing of quality seeds in prepared nursery</li> </ul>
(Normal sown)			<ul> <li>Recommended varieties: Amham, Vandana, RCM-7,10,11</li> </ul>
			CAUR-1, Ranjit
			◆ Before sowing, treat seeds with solution of Carbandazin
	D.16	<u> </u>	50WP @ 1 grams in one litre of water per kilogram of seeds.
Maize	Pod formation	Soybean looper	<ul> <li>Provide proper drainage</li> </ul>
			Spray Azadirachtin 0.15% EC 2@ 6ml/lit
D	C 1		<ul> <li>Monitor the crop against attack of insect pests,</li> </ul>
Pea	Seed development	Powdery mildew/ leaf	Need based foliar spray of Dinocap (0.2%) or Carbendazin 50WD (0.1%) on Provision states (0.1%) using sticker if the
	development	eating insects	50WP (0.1%) or Propiconazole (0.1%) using sticker if the
		cating motors	infestation is high.
VEGETABLE			
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	<ul> <li>Spray imidacloprid 17.8 SL (0.003%) to the crops</li> <li>incide not/group house or grown in shade</li> </ul>
French Bean,	Vegetative/	Bean borer	<ul> <li>inside net/green house or grown in shade</li> <li>Because of heavy rainfall the exposed roots portion of the</li> </ul>
black gram,	Fruiting	Deali UOIei	plant should be earthened up,
green gram.	Tutting		<ul> <li>Any type of caterpillar observed in the field may be manually</li> </ul>
8 . 8			collected and destroyed in the dusk hours in the crop field,
Sponge, bitter,	Vegetative/	Fruit fly	<ul> <li>Use traps to capture adult fruit fly,</li> </ul>
ash & ridge	Fruiting		<ul> <li>Provide support to the plants to climb, as high intensity</li> </ul>
gourd, pumpkin,			rainfall at this stage will damage the plant,
cucumber	<b>X7</b>	T C	
Vegetables	Vegetative	Leaf eating insects	<ul> <li>Monitor for possible insect/pest attack</li> <li>During clear dry days or using stickers, foliar spray o</li> </ul>
		msects	During clear dry days or using stickers, foliar spray o Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.
			<ul> <li>Provide adequate drainage</li> </ul>
HORTICULT	URAL CROPS		
Citrus	Flowering/	Phytophthora	Right time for seedling-follow half moon terraces with
	Seedling		spacing of 5 meter.
· · · · · · · · · · · · · · · · · · ·			• Prepare half moon terraces for fruit crop
1			Prepare half moon terraces for fruit crop (orange/banana/apple/peach) in steep slopes to preven
			(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.
			<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunk</li> </ul>
			<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunl upto the height of 24 inches by brush.</li> </ul>
			<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunh upto the height of 24 inches by brush.</li> <li>During clear dry days or using stickers during rain, spraying</li> </ul>
			<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunl 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 or prevent the structure of the struct</li></ul>
Guava	Flowering		<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunh 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 or the tree against Phytophthora.</li> </ul>
Guava	Flowering		<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunl 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 or the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> </ul>
			<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunt 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 or the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> </ul>
Guava Ginger/ Turmeric	Germination/		<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunt 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 or the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> <li>Mulching ginger beds with locally available</li> </ul>
			<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunt 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 or the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> <li>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination</li> </ul>
	Germination/		<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunt 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 or the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> <li>Mulching ginger beds with locally available</li> </ul>
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	Germination/	Scary beetles	<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunt 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 of the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> <li>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.</li> <li>Proper drainage to avoid water stagnation</li> </ul>
Ginger/ Turmeric Banana	Germination/ Vegetative All stages	-	<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunt 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 or the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> <li>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.</li> <li>Proper drainage to avoid water stagnation</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> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunt 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 of the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> <li>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.</li> <li>Proper drainage to avoid water stagnation</li> </ul>
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Ginger/ Turmeric Banana	Germination/ Vegetative All stages	-	<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunt 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 or the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> <li>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination prevent washing off during heavy rainfall, add organism atter to the soil &amp; conserve moisture during dry seasons.</li> <li>Proper drainage to avoid water stagnation</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>
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Ginger/ Turmeric Banana	Germination/ Vegetative All stages	-	<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunt 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 or the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> <li>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination prevent washing off during heavy rainfall, add organi matter to the soil &amp; conserve moisture during dry seasons.</li> <li>Proper drainage to avoid water stagnation</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> <li>Diseased and senile branches should be removed.</li> <li>Pruning should be done retaining 8-10 buds per branch for enhancing new flush and flowering.</li> </ul>
Ginger/ Turmeric Banana	Germination/ Vegetative All stages	-	<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trund 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 or the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> <li>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination prevent washing off during heavy rainfall, add organi matter to the soil &amp; conserve moisture during dry seasons.</li> <li>Proper drainage to avoid water stagnation</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> <li>Diseased and senile branches should be removed.</li> <li>Pruning should be done retaining 8-10 buds per branch fo enhancing new flush and flowering.</li> <li>Pruned healthy hard wood of pencil thickness size having</li> </ul>
Ginger/ Turmeric Banana Kiwi	Germination/ Vegetative All stages Pruning/Training		<ul> <li>(orange/banana/apple/peach) in steep slopes to preven nutrient loss due to rain.</li> <li>During clear dry days, apply Bordeaux paste on the tree trunt 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 or the tree against Phytophthora.</li> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> <li>Mulching ginger beds with locally available leaves/materials is advocated to enhance germination prevent washing off during heavy rainfall, add organimatter to the soil &amp; conserve moisture during dry seasons.</li> <li>Proper drainage to avoid water stagnation</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> <li>Diseased and senile branches should be removed.</li> <li>Pruned healthy hard wood of pencil thickness size having 4-5 buds can be used as cutting for propagation</li> </ul>

Honey Bees				
loney bees			*	Cover the boxes with locally available dry grass or straw to provide warmth
LIVESTOCKS	5			
Livestock	Stage	Disease		Precautionary Practices to be followed
			*	General
0	0 0			verted for Poultry/livestock feeding the clock and water troughs/feeders should be regular
Fishery			*	To avoid water turbidity, use grass turfing or horticultura 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. Fee 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 cocciodiosis.
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 3 kg body weight. Provide proper bedding materials especially to new-born ar lukewarm food & water Provide feed supplements

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th 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 summery of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = 0.0 mm (Roing)	Mostly cloudy with possibility of moderate to rather heavy
	rainfall. 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.
Warning:	• Heavy rain is very likely to occur at isolated places on 12th,
	13th, 14th & 16th June, '18 and heavy to very heavy rainfall is
	very likely to occur at isolated places on 15th and16th June'18

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					
		<b>DETAILS OF A</b>	<b>DVISOR</b>	IES FOR THE PERIOD	
Crop	Stage	Pest/Disease Precautionary Practices to be followed			
FIELD CROP	FIELD CROPS				
WRC-RICE	Nursery		<b>*</b>	Sowing of quality seeds in prepared nursery	
(Normal sown)			<b>*</b> ]	Recommended varieties: Amham, Vandana, RCM-7,10,11,	
			(	CAUR-1, Ranjit	
			<b>*</b> ]	Before sowing, treat seeds with solution of Carbandazim	
			:	50WP @ 1 grams in one litre of water per kilogram of seeds.	

Kharif Maize	Sowing		<ul> <li>Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek</li> </ul>
			<ul> <li><b>QPM-9 etc from certified agency</b></li> <li>✤ Ensure seed treatment with carbendazim/Thiram @2g/kg</li> </ul>
			seeds.
Rice	Leaf	Stem borer	• Rice: Weed free & clean nursery periphery to prevent
	Elongation/		disease/pest harboring.
	Tillering		• Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in rice nursery as well as in main field.
Jhum rice	Rooting/ Leaf	Leaf blast/ leaf	<ul> <li>On clear/sunny days, spray carbendazim @2g/lit water in</li> </ul>
	elongation	spot	<i>jhum</i> field to control heavy infestation of leaf blast & leaf spot.
			• Provide proper drainage and soil conservation measures like mulching with locally available materials.
			<ul> <li>Keep the periphery clean</li> </ul>
			• Avoid application of fertilizer and insecticides/pesticides
			• Manual weeding may be done during dry days
Maize	Pod formation	Soybean looper	<ul> <li>Provide proper drainage</li> </ul>
			<ul> <li>Spray Azadirachtin 0.15% EC 2@ 6ml/lit</li> <li>Monitor the crop against attack of insect pests,</li> </ul>
Pea	Seed	Powdery	<ul> <li>Monitor the crop against attack of insect pests,</li> <li>Provide adequate drainage and avoid water stagnation</li> </ul>
	development	mildew/ leaf	near the base of the plants.
		eating insects	$\clubsuit$ Need based foliar spray of Dinocap (0.2%) or Carbendazim
			50WP (0.1%) or Propiconazole (0.1%) using sticker if the infected on it high
Toria/ Mustard	Maturity	Aphids	infestation is high.
Torra Wrustard	Waturity	Apindo	<ul> <li>If the infestation is high, Spray Dimethoate 30EC @2ml/litre</li> </ul>
			against aphids in Rapeseed/Mustard using sticker or during
			clear/dry days.
VEGETABLE			
Chilli/ tomato/ brinjal	Vegetative/ Flowering	Leaf Curl	Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade
Sponge, bitter,	Vegetative/	Fruit fly	<ul> <li>Use traps to capture adult fruit fly,</li> </ul>
ash & ridge gourd, pumpkin,	Fruiting		<ul> <li>Provide support to the plants to climb, as high intensity rainfall at this stage will damage the plant,</li> </ul>
cucumber			Taiman at this stage will canage the plant,
French Bean,	Vegetative/	Bean borer	<ul> <li>Because of heavy rainfall the exposed roots portion of the</li> </ul>
black gram, green gram.	Fruiting		<ul><li>plant should be earthened up,</li><li>Any type of caterpillar observed in the field may be manually</li></ul>
			collected and destroyed in the dusk hours in the crop field,
Summer vegetables	Vegetative/ flowering	Flea beetles/ fungal diseases	<ul> <li>During clear/dry days, spray azadirachtin<u>0.15EC@6ml/lit</u> against flea beetles</li> </ul>
			During clear/dry days, spray orthon dogim (Managagah @2gm/lit to control funge)
			carbandazim/Mancozab@2gm/lit to control fungal diseases in summer vegetables.
HORTICULT	URAL CROPS		
Citrus	Flowering/	Phytophthora	Right time for seedling-follow half moon terraces with
	Seedling		<ul> <li>spacing of 5 meter.</li> <li>Prepare half moon terraces for fruit crops</li> </ul>
			• Prepare half moon terraces for fruit crops (orange/banana/apple/peach) in steep slopes to prevent
			nutrient loss due to rain.
			• During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.
			<ul> <li>During clear dry days or using stickers during rain, spraying</li> </ul>
			and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.
Banana	All stages	Scary beetles	<ul> <li>Earthing up followed by fertilizer application</li> <li>Apply Malathion dust 5D inside the whorl of the plant,</li> </ul>
			<ul> <li>Apply Malatinon dust 5D inside the whori of the plant,</li> <li>Planting of new saplings may be done in present weather</li> </ul>
Ginger/ Turmeric			✤ Mulching ginger beds with locally available
	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.
			<ul> <li>Proper drainage to avoid water stagnation</li> </ul>

Guava	Flowering		*	Avoid water logging in the basin,		
Guava	Flowering			Basin cleaning in half moon system is advised,		
Lanza aandamam	Sowing		*	Sowing in primary nursery bed at 2cm depth & 10cm apart		
Large cardamom	Sowing		•••	with mulching & regular irrigation.		
			*	Applications of well decomposed cattle manure/compost		
			•	@5kg/plant during clear/dry days.		
Honey Bees	I					
Honey bees			*	Box must be covered with straw/dry leaves to provide		
-				warmth		
LIVESTOCKS	5					
Livestock	Stage	Disease		Precautionary Practices to be followed		
			*	General		
				verted for Poultry/livestock feeding		
	rinking water s	hould be ensured	round	the clock and water troughs/feeders should be regularly		
cleaned,		1				
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		
D'	A 11 .			pond twice daily to feed fish fingerlings.		
Pigs	Ū.	FMD (high fever	*	Food waste or garbage fed to swine must be cooked and		
		and appearance of mucous		sterilized properly. Cooking the different raw materials		
		membrane of the mouth and foot.)		together is advocated to improve digestibility and to		
			•	break- down toxins from some feeds.		
		Swine Fever	*	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		
Cast	A 11 at a casa		.*.	prevention of cocciodiosis.		
Goat	All stages	EMD		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		
Contact Scien	tists (ICAR) or			K staff for measures against adverse conditions or call		
	at 03795-226237/226247					

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th 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 summery 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.
Warning:	• Heavy rain is very likely to occur at isolated places on 12th,
	13th, 14th & 16th June, '18 and heavy to very heavy rainfall is
	very likely to occur at isolated places on 15th and16th June'18

<ul> <li>GENERAL RECOMMENDATIONS <ul> <li>On anticipation of heavy rainfall:</li> <li>Suspend all spray operations</li> <li>Do not go for fertilizer/manure applications</li> <li>Proper drainage to all crop to avoid runoff</li> </ul> </li> </ul>				
		<b>DETAILS OF A</b>	DVISORIES FOR THE PERIOD	
Crop	Stage	<b>Pest/Disease</b>	<b>Precautionary Practices to be followed</b>	
FIELD CROP	S			
WRC-RICE	Nursery		<ul> <li>Sowing of quality seeds in prepared nursery,</li> </ul>	
(Mipun)			✤ Before sowing, treat seeds with solution of Carbandazim	
			50WP @ 1 grams in one litre of water per kilogram of seeds.	
Jhum rice	Leaf elongation	Leaf blast/ leaf spot/	• On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control infestation of leaf blast & leaf spot.	

Rice	Transplantation / leaf elongation	Yellow stem borer Stem borer	<ul> <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> <li>On anticipation of rain, provide proper drainage to the nursery/main field to avoid runoff</li> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</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> <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>
VEGETABLE French Bean, black gram, green gram.	S Vegetative/ Fruiting	Bean borer	<ul> <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> <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> <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>
	URAL CROPS		
Citrus	Flowering	Fruit drop/ Phytophthora	<ul> <li>Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower drop</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	Vegetative		<ul> <li>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.</li> <li>Proper drainage to avoid water stagnation</li> </ul>
Apple	Fruiting	Fruit drop / wooly aphids	<ul> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</li> </ul>
Kiwi	Flowering	Leaf eating beetle	<ul> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <li>Hand collection of the insects and its destruction,</li> <li>Make proper drainage facility in the crop area</li> </ul>
Peach	Fruit maturing	Fruit Fly	<ul> <li>Install fruit fly pheromone traps,</li> <li>Collect and dispose off the fallen fruits.</li> <li>Clean basin,</li> </ul>

Guava	Flowering		*	Avoid water logging in the basin,
	C		*	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.
Temperate fruits	After harvesting		*	Training & pruning of the temperate crops (apple/pears/peach) is recommended
			*	In case of flowering, stop spraying insecticides/pesticides
Agroforestry				
Toko palm	Nursery		*	Filling of nursery polybags for raising of takopalm seedlings
Honey Bees				0
Honey bees			*	Box must be covered with straw/dry leaves to provide warmth
LIVESTOCKS				
Livestock	Stage	Disease		Precautionary Practices to be followed
Fishery	0		*	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	*	Food waste or garbage fed to swine must be cooked and
- 180		and appearance	•	sterilized properly. Cooking the different raw materials
		of mucous		together is advocated to improve digestibility and to
		membrane of the		break- down toxins from some feeds.
		mouth and foot.) Swine Fever	*	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.
Pigs	All stages	FMD (high fever and appearance	*	Avoid dampness and cover weak and sick animals with sack cloth.
		of mucous	*	The bedding is always dry and that there is plenty.
		membrane of the	*	If possible wooden sleeping box should be provided.
		mouth and foot.)	*	Right time to deworm with anti helmetic drugs (particularly
		Swine Fever		Tapeworms) viz. Fento Plus @ 1 tablet per 30 kg body weight.
Cattle	All stages	FMD	*	Animals should be given lukewarm feed and water.
	C		*	
				(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
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.

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th 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 summery 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.
Warning:	• Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th & 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and16th June'18

On antic • Suspend						
e e e e e e e e e e e e e e e e e e e	<ul> <li>Proper drainage to all crop to avoid runoff</li> </ul>					
DETAILS OF ADVISORIES FOR THE PERIOD						
Сгор	Stage	Pest/Disease		Precautionary Practices to be followed		
		F	TIELD	CROPS		
WRC-RICE	Nursery		*	Sowing of quality seeds in prepared nursery		
(Normal sown)			*	Recommended varieties: Amham, Vandana, RCM-7,10,11,		
				CAUR-1, Ranjit		
			*	Before sowing, treat seeds with solution of Carbandazim		
				50WP @ 1 grams in one litre of water per kilogram of seeds.		
Kharif Maize	Sowing		*	Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek		

			<ul> <li>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> <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>Manual weeding may be done during dry days</li> </ul>
Rice	Leaf Elongation/ Tillering	Stem borer	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</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> <li>Provide proper drainage</li> <li>Spray Azadirachtin 0.15% EC 2@ 6ml/lit</li> <li>Monitor the crop against attack of insect pests,</li> </ul>
			VEGETABLES
Chilli/ tomato/	Vegetative/	Leaf Curl	Spray imidacloprid 17.8 SL (0.003%) to the crops
brinjal Sponge, bitter, ash & ridge gourd, pumpkin, cucumber	Flowering Vegetative/ Fruiting	Fruit fly	<ul> <li>inside net/green house or grown in shade</li> <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> <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> <li>During clear/dry days, spray azadirachtin<u>0.15EC@6ml/lit</u> against flea beetles</li> <li>During clear/dry days, spray carbandazim/Mancozab@2gm/lit to control fungal diseases in summer vegetables.</li> </ul>
		Н	ORTICULTURAL CROPS
Ginger/ Turmeric	Germination/ Vegetative		<ul> <li>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.</li> <li>Proper drainage to avoid water stagnation</li> </ul>
Banana	All stages	Scary beetles	<ul> <li>Earthing up followed by fertilizer application</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> <li>Right time for seedling-follow half moon terraces with spacing of 5 meter.</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> <li>Avoid water logging in the basin,</li> <li>Basin cleaning in half moon system is advised,</li> </ul>
Large Cardamom	Vegetative		<ul> <li>Provide proper drainage to avoid water stagnation in the base of the plant.</li> </ul>
		· · ·	Honey Bees
Honey bees			<ul> <li>Box must be covered with straw/dry leaves to provide warmth</li> <li>LIVESTOCKS</li> </ul>
Livestock	Stage	Disease	Precautionary Practices to be followed
	Juge		······································

Fishery			•	To avoid water turbidity, use grass turfing or horticultur
i isilei y				crop at embankment/dyke of the earthen fish pond.
			*	Broadcast mustard Oil Cake (MOC) @5kg/day over t 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	and appearance of mucous	*	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
		mouth and foot.)	*	<b>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 weig
Poultry	All stages		*	Provide shelter to the backyard/scavenging poultry. Fe grains in the morning/evening to supplement scavenging
			*	Inclusion of turmeric powder @ 10g/kg feed f prevention of cocciodiosis.
Goat	All stages		*	Deworming for gastrointestinal parasite
Cattle	All stages	FMD	*	<b>Right time to deworm with anti helmetic drugs</b> (particularly Tapeworms) viz. Fento Plus @ 1 tablet per kg body weight.
				Provide proper bedding materials especially to new-born a lukewarm food & water
			*	Provide feed supplements

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th 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 summery 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.		
Warning:	• Heavy rain is very likely to occur at isolated places on 12th, 13th, 14th & 16th June, '18 and heavy to very heavy rainfall is very likely to occur at isolated places on 15th and16th June'18		

On anti Suspend Do not g	<ul> <li>Do not go for fertilizer/manure applications</li> </ul>					
	DETAILS OF ADVISORIES FOR THE PERIOD					
Crop	Crop Stage Pest/Disease Precautionary Practices to be followed					
<b>FIELD CROP</b>	S					
Maize	Fruiting/ Mature	Stem borer Rat	<ul> <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/	• On clear/sunny days, spray carbendazim @2g/lit water in <i>jhum</i> field to control infestation of leaf blast & leaf spot.			

VEGETABLES       will reduce the carryover of the infestation to the main field.         VEGETABLES       Vegetative/ Firuiting       Bean borer	Rice	Transplantation / leaf elongation	Yellow stem borer	<ul> <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> <li>On anticipation of rain, provide proper drainage to the nursery/main field to avoid runoff</li> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</li> <li>Cut the tips of the leaves before transplanting reduces the</li> </ul>
VEGETABLES           French Bean, black gram, green gram.         Vegetative/ Fruiting         Bean borer				population of stem borer as the eggs are laid on that site. It
French Bean, black gram, green gram.       Vegetative/ Fruiting       Bean borer	VEGETABLE	'S		will reduce the carryover of the intestation to the main neid.
Vegetables       Vegetative       Leaf eating insects	French Bean, black gram,	Vegetative/	Bean borer	<ul> <li>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</li> </ul>
HORTICULTURAL CROPS         Apple       Fruiting       Fruit drop / wooly aphids       Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop         Apple       Fruiting       Fruit drop / wooly aphids       Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop         Kiwi       Flowering       Leaf eating beetle       String thread to be covered with 50% shade net to protect flowers from heavy rain and hall storm.         Peach       Fruit maturing       Fruit Fly       Install fruit fly pheromone traps,         Collect and dispose off the fallen fruits.       Celan basin,       Clean basin,         Temperate fruits       After harvesting       Training & pruning of the temperate crops (apple/pears/peach) is recommended         Vegetables       Vegetative       Leaf eating insects       Monitor for possible insect/pest attack         Quering clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.       Provide adequate drainage         Cucurbits       Flowering/ Fruiting       Leaf eating insects       Monitor for possible attack of insect/pests         Solution 1.5% EC 2.0% 6ml/lit against leaf eating insects.       Sovide azoguarte drainage         Cucurbits       Flowering/ Fruiting       Leaf eating insects       Monitor for possible attack of insect/pests         Sovide azoguarte drainage insects.       Cover mewly emerged bunches with locall	Vegetables	Vegetative		<ul> <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> </ul>
wooly aphids       inhibit fruit drop         Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days         Kiwi       Flowering       Leaf eating beetle <ul> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <li>Hand collection of the insects and its destruction,</li> <li>Make proper drainage facility in the crop area</li> </ul> Peach       Fruit maturing       Fruit Fly <ul> <li>Install fruit fly pheromone traps,</li> <li>Collect and dispose off the fallen fruits.</li> <li>Clean basin,</li> <li>Training &amp; pruning of the temperate crops (apple/pears/peach) is recommended</li> <li>In case of flowering, stop spraying insect/icides/pesticides</li> </ul> Vegetables         Vegetative         Leaf eating insects <ul> <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> <li>Monitor for possible attack of insect/pests</li> <li>Suring 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 crosion,.</li> </ul> Banana<	HORTICULT	URAL CROPS		
Kiwi       Flowering       Leaf eating beetle       Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.         Peach       Fruit maturing       Fruit Fly       Hand collection of the insects and its destruction,         Peach       Fruit maturing       Fruit Fly       Install fruit fly pheromone traps,         Collect and dispose off the fallen fruits.       Collect and dispose off the fallen fruits.         Temperate fruits       After harvesting       * Training & pruning of the temperate crops (apple/pears/peach) is recommended         Vegetables       Vegetative       Leaf eating insects       * Monitor for possible insect/pest attack         Vulcurbits       Flowering/       Leaf eating insects       * Monitor for possible attack of insect/pests         Provide adequate drainage       * Over the base of crop with locally available mulches to avoid exposure to erosion,.         Banana       Bunching       Cold       * Over the base of crop with locally available sack to protect fmo cold/frost         Livestock       Stage       Disease       * Precautionary Practices to be followed         General       * Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding       * Could the clock and water troughs/feeders should be regularly cleaned, Prigs         All stages       FMD (high fever       * Food waste or garbage fed to swine must be cooked and	Apple	Fruiting	-	<ul> <li>inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during</li> </ul>
Peach       Fruit maturing       Fruit Fly       Install fruit fly pheromone traps,         Collect and dispose off the fallen fruits.       Collect and dispose off the fallen fruits.         Temperate fruits       After harvesting       In case of flowering, stop spraying insecticides/pesticides         Vegetables       Vegetative       Leaf eating insects       Monitor for possible insect/pest attack         Vegetables       Vegetative       Leaf eating insects       Monitor for possible insect/pest attack         Cucurbits       Flowering/       Leaf eating insects       Provide adequate drainage         Cucurbits       Flowering/       Leaf eating insects       Monitor for possible attack of insect/pests         Banana       Bunching       Cold       Cover the base of crop with locally available mulches to avoid exposure to erosion,.         Banana       Bunching       Cold       Cover newly emerged bunches with locally available sack to protect from cold/frost         Mulching with straw/crop residue at root zone to avoid frost injury in banana.       Mulching with straw/crop residue at root zone to avoid frost injury in banana.         Livestock       Stage       Disease       Precautionary Practices to be followed         General       Pigs       All stages       FMD (high fever       FMO (high fever	Kiwi	Flowering	U	<ul> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <li>Hand collection of the insects and its destruction,</li> </ul>
Temperate fruits       After harvesting       * Training & pruning of the temperate crops (apple/pears/peach) is recommended         Vegetables       Vegetative       Leaf eating insects       * Monitor for possible insect/pest attack         Vegetables       Vegetative       Leaf eating insects       * Monitor for possible insect/pest attack         Cucurbits       Flowering/ Fruiting       Leaf eating insects       * Provide adequate drainage         Cucurbits       Flowering/ Fruiting       Leaf eating insects       * Monitor for possible attack of insect/pests         Banana       Bunching       Cold       * Over the base of crop with locally available mulches to avoid exposure to erosion,.         Banana       Bunching       Cold       * Over newly emerged bunches with locally available sack to protect from cold/frost         Livestock       Stage       Disease       * Precautionary Practices to be followed         General       • Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding       * Food waste or garbage fed to swine must be cooked and	Peach	Fruit maturing	Fruit Fly	<ul> <li>Install fruit fly pheromone traps,</li> <li>Collect and dispose off the fallen fruits.</li> </ul>
VegetablesVegetativeLeaf eating insects* Monitor for possible insect/pest attackCucurbitsFlowering/ FruitingLeaf eating insects* Monitor for possible attack of insect/pestsCucurbitsFlowering/ FruitingLeaf eating insects* Monitor for possible attack of insect/pestsBananaBunchingCold* Cover the base of crop with locally available mulches to avoid exposure to erosion,.BananaBunchingCold* Cover newly emerged bunches with locally available sack to protect from cold/frostLivestockStageDisease* Precautionary Practices to be followedCeneral* 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, FMD (high fever* Food waste or garbage fed to swine must be cooked and	Temperate fruits	After harvesting		<ul> <li>Training &amp; pruning of the temperate crops (apple/pears/peach) is recommended</li> </ul>
Cucurbits       Flowering/ Fruiting       Leaf eating insects       * Monitor for possible attack of insect/pests         * During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.       * Cover the base of crop with locally available mulches to avoid exposure to erosion,.         Banana       Bunching       Cold       * Cover newly emerged bunches with locally available sack to protect from cold/frost         Banana       Bunching       Cold       * Cover newly emerged bunches with locally available sack to protect from cold/frost         LIVESTOCKS       Stage       Disease       * Precautionary Practices to be followed         General       * Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding       * Precautionary Practices to be regularly cleaned,         Pigs       All stages       FMD (high fever       * Food waste or garbage fed to swine must be cooked and	Vegetables	Vegetative		<ul> <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> </ul>
protect from cold/frost         protect from cold/frost         Mulching with straw/crop residue at root zone to avoid frost injury in banana.         LIVESTOCKS         Livestock       Stage         Disease	Cucurbits	Ų	Ū.	<ul> <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>
LivestockStageDisease> Precautionary Practices to be followedGeneral< Damaged grain (not fungus contaminated) to be diverted for Poultry/livestock feeding			Cold	<ul> <li>Cover newly emerged bunches with locally available sack to protect from cold/frost</li> <li>Mulching with straw/crop residue at root zone to avoid</li> </ul>
General <ul> <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				
<ul> <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> <li>Pigs All stages FMD (high fever * Food waste or garbage fed to swine must be cooked and</li> </ul>		-	Disease	<ul> <li>Precautionary Practices to be followed</li> </ul>
	<ul><li>Damaged</li><li>Clean dr</li></ul>	d grain (not fungus inking water should	d be ensured round	the clock and water troughs/feeders should be regularly cleaned,

		of mucous membrane of the mouth and foot.) Swine Fever	* * *	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. Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.	
Yak	All stages			Feeding of concentrate feed along with mineral mixture and salt. Hay feeding is recommended.	
Cattle	All stages	FMD	* * *	• • •	
Contact Scier	Contact Scientists (ICAR) or State Agril Staff or KVK staff for measures against adverse conditions or call at 03795-226237/226247				

# **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: Tirap**



Weather summery 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.		
Warning:	• Heavy rain is very likely to occur at isolated places on 12th,		
	13th, 14th & 16th June, '18 and heavy to very heavy rainfall is		
	very likely to occur at isolated places on 15th and16th June'18		

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	Stago	Pest/Disease	Precautionary Practices to be followed		
Crop	Stage	rest/Disease	riecautionary riacuces to be followed		
FIELD CROPS					
WRC-RICE	Nursery		<ul> <li>Sowing of quality seeds in prepared nursery</li> </ul>		
(Normal sown)			<ul> <li>Recommended varieties: Amham, Vandana, RCM-7,10,11,</li> </ul>		
			CAUR-1, Ranjit		
			♦ Before sowing, treat seeds with solution of Carbandazim		
			50WP @ 1 grams in one litre of water per kilogram of seeds.		
Kharif Maize	Sowing		Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek		
	C		QPM-9 etc from certified agency		
			<ul> <li>Ensure seed treatment with carbendazim/Thiram @2g/kg</li> </ul>		

				seeds.
Rice	Leaf	Stem borer	•	Rice: Weed free & clean nursery periphery to prevent
	Elongation/			disease/pest harboring.
	Tillering		•	Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in
				rice nursery as well as in main field.
Maize	Pod formation	Soybean looper	*	Provide proper drainage
			*	Spray Azadirachtin 0.15% EC 2@ 6ml/lit
			*	Monitor the crop against attack of insect pests,
Jhum rice	Leaf		•	Provide proper drainage and soil conservation measures
	elongation/ tillering			like mulching with locally available materials.
	thiering		•	Keep the periphery clean
	~		•	Avoid application of fertilizer and insecticides/pesticides
<b>VEGETABLES</b> Chilli/ tomato/		Leaf Curl	*	Spray imideal and 17.8 SL (0.0020/) to the areas
brinjal	Vegetative/ Flowering	Lear Curi	*	Spray imidacloprid 17.8 SL (0.003%) to the crops inside net/green house or grown in shade
French Bean,	Vegetative/	Bean borer	*	Because of heavy rainfall the exposed roots portion of the
black gram,	Fruiting			plant should be earthened up,
green gram.			*	Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field,
Sponge, bitter,	Vegetative/	Fruit fly		Use traps to capture adult fruit fly,
ash & ridge	Fruiting		*	Provide support to the plants to climb, as high intensity
gourd, pumpkin, cucumber				rainfall at this stage will damage the plant,
Vegetables	Vegetative	Leaf eating	*	Monitor for possible insect/pest attack
C	C	insects	*	During clear dry days or using stickers, foliar spray of
				Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.
			*	Provide adequate drainage
HORTICULTU Citrus	Flowering/	Phytophthora	•	Right time for seedling-follow half moon terraces with
Cittus	Seedling	Thytophthora	•	spacing of 5 meter.
	C		•	Prepare half moon terraces for fruit crops
				(orange/banana/apple/peach) in steep slopes to prevent
				nutrient loss due to rain.
			•	During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.
			•	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.
Banana	All stages	Scary beetles	*	Earthing up followed by fertilizer application
			*	Apply Malathion dust 5D inside the whorl of the plant, Planting of new saplings may be done in present weather
Ginger/ Turmeric	Germination/			Mulching ginger beds with locally available
0	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.
Guava	Flowering		*	Proper drainage to avoid water stagnation Avoid water logging in the basin,
Guava	riowening		•••	Basin cleaning in half moon system is advised,
Honey Bees			·•·	Basin cleaning in nan moon system is advised,
Thomey Dees			*	Box must be covered with straw/dry leaves to provide
			·	warmth
LIVESTOCKS		1 1		
Livestock	Stage	Disease		Precautionary Practices to be followed
Pigs	All stages	FMD (high fever	*	Food waste or garbage fed to swine must be cooked and
		and appearance		sterilized properly. Cooking the different raw materials
		of mucous membrane of the		together is advocated to improve digestibility and to
		mouth and foot.)		break- down toxins from some feeds.
		Swine Fever	*	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.

Fishery			<ul> <li>To avoid water turbidity, use grass turfing or horticultural crop at embankment/dyke of the earthen fish pond.</li> </ul>
			Broadcast mustard Oil Cake (MOC) @5kg/day over the pond twice daily to feed fish fingerlings.
Poultry	All stages		Provide shelter to the backyard/scavenging poultry. Feed grains in the morning/evening to supplement scavenging.
			<ul> <li>Day old chick-Maintain warmth by lighting,</li> </ul>
Goat	All stages		<ul> <li>Deworming for gastrointestinal parasite</li> </ul>
Cattle	All stages	FMD	<ul> <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			

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th 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 summery of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = 0.0 mm	Mostly cloudy with possibility of rather heavy to 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 90-93% and 69-78%
	respectively. Wind direction is mainly SE & ESE with speed range
	of 2-3 kmph.
Warning:	• Heavy rain is very likely to occur at isolated places on 12th,
	13th, 14th & 16th June, '18 and heavy to very heavy rainfall is
	very likely to occur at isolated places on 15th and16th June'18

#### 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 CROI</b>	PS			
Maize	Fruiting/	Stem borer	*	Harvest of mature cobs during clear/dry days.
	Mature	Rat	*	To protect the cobs from rat use of locally available traps
				is advised,
WRC-RICE	Nursery			Sowing of quality seeds in prepared nursery,
(Mipun)			*	Before sowing, treat seeds with solution of Carbandazim
				50WP @ 1 grams in one litre of water per kilogram of seeds.
Rice	Transplantation	Stem borer	•	On anticipation of rain, provide proper drainage to the
	/ leaf			nursery/main field to avoid runoff
	elongation			

Jhum rice	Leaf elongation	Leaf blast/ leaf spot/ Yellow stem	<ul> <li>Rice: Weed free &amp; clean nursery periphery to prev disease/pest harboring.</li> <li>Cut the tips of the leaves before transplanting reduces population of stem borer as the eggs are laid on that site will reduce the carryover of the infestation to the main field</li> <li>On clear/sunny days, spray carbendazim @2g/lit water <i>jhum</i> field to control infestation of leaf blast &amp; leaf spot.</li> </ul>
		borer	<ul> <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 top soil due to heavy rainfall.</li> <li>Keep the surrounding clean/ weed free to avoid disease/p harboring</li> <li>Manual weeding advocated during clear dry days.</li> </ul>
VEGETABLE			
French Bean, black gram, green gram.	Vegetative/ Fruiting	Bean borer	<ul> <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> <li>Monitor for possible insect/pest attack</li> <li>During clear dry days or using stickers, foliar spray Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eat insects.</li> <li>Provide adequate drainage</li> </ul>
Cucurbits	Flowering/ Fruiting	Leaf eating insects	<ul> <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 mulch to avoid exposure to erosion,.</li> </ul>
HORTICULT	URAL CROPS		
Apple	Fruiting	Fruit drop / wooly aphids	<ul> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids duri clear/dry days</li> </ul>
Kiwi	Flowering	Leaf eating beetle	<ul> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <li>Hand collection of the insects and its destruction,</li> </ul>
			Make proper drainage facility in the crop area
Citrus	Flowering	Fruit drop/ Phytophthora	
Ginger/ Turmeric	Sowing/ germination	Phytophthora	<ul> <li>Make proper drainage facility in the crop area</li> <li>Foliar application of micronutrient/multiplex @ 0 should be done to prevent flower drop</li> <li>During clear dry days, apply Bordeaux paste on the tree trupto the height of 24 inches by brush.</li> <li>During clear dry days or using stickers during rain, spray and drenching with metalaxyl MZ-72 @ 2.75 g/lit water the tree against Phytophthora.</li> <li>Prepare half moon terraces for fruit cr (orange/banana/apple/peach) in steep slopes to prevnutrient loss due to rain.</li> <li>Mulching ginger beds with locally availa leaves/materials is advocated to enhance germinating prevent washing off during heavy rainfall, add orgamatter to the soil &amp; conserve moisture during dry season</li> </ul>
	Sowing/	-	<ul> <li>Make proper drainage facility in the crop area</li> <li>Foliar application of micronutrient/multiplex @ 0 should be done to prevent flower drop</li> <li>During clear dry days, apply Bordeaux paste on the tree truuto the height of 24 inches by brush.</li> <li>During clear dry days or using stickers during rain, spray and drenching with metalaxyl MZ-72 @ 2.75 g/lit water the tree against Phytophthora.</li> <li>Prepare half moon terraces for fruit cr (orange/banana/apple/peach) in steep slopes to prevnutrient loss due to rain.</li> <li>Mulching ginger beds with locally availate leaves/materials is advocated to enhance germinating prevent washing off during heavy rainfall, add organized and apple statement.</li> </ul>
Ginger/ Turmeric	Sowing/ germination Fruit maturing	Phytophthora	<ul> <li>Make proper drainage facility in the crop area</li> <li>Foliar application of micronutrient/multiplex @ 0.3 should be done to prevent flower drop</li> <li>During clear dry days, apply Bordeaux paste on the tree trupto the height of 24 inches by brush.</li> <li>During clear dry days or using stickers during rain, spray and drenching with metalaxyl MZ-72 @ 2.75 g/lit water the tree against Phytophthora.</li> <li>Prepare half moon terraces for fruit cr (orange/banana/apple/peach) in steep slopes to prevnutrient loss due to rain.</li> <li>Mulching ginger beds with locally availa leaves/materials is advocated to enhance germination prevent washing off during heavy rainfall, add orgamatter to the soil &amp; conserve moisture during dry season</li> <li>Install fruit fly pheromone traps,</li> <li>Collect and dispose off the fallen fruits.</li> </ul>

			frost injury in banana.
<b>VESTOCKS</b>			
Livestock	Stage	Disease	<ul> <li>Precautionary Practices to be followed</li> </ul>
<ul> <li>Clean dr cleaned,</li> </ul>			✤ General be diverted for Poultry/livestock feeding round the clock and water troughs/feeders should be regular
Fishery			<ul> <li>To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.</li> <li>Broadcast mustard Oil Cake (MOC) @5kg/day over the second seco</li></ul>
			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	<ul> <li>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.</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>
Poultry	All stages		<ul> <li>Provide shelter to the backyard/scavenging poultry. Fee grains in the morning/evening to supplement scavenging.</li> <li>Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.</li> </ul>
Cattle	All stages	FMD	<ul> <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 3         kg body weight.</li> <li>Provide proper bedding materials especially to new-born ar         lukewarm food &amp; water</li> <li>Provide feed supplements</li> </ul>
Mithun		FMD	<ul> <li>Polyvalent FMD vaccine with serotype O, A and Asia at months of age and repeat after that 6 months interval by sul cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>

Agrometeorological Field Unit
ICAR, BASAR

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th 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 summery 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.
Warning	• Heavy rain is very likely to occur at isolated places on 12th,
	13th, 14th & 16th June, '18 and heavy to very heavy rainfall is
	very likely to occur at isolated places on 15th and16th June'18

GENER	AL RECOMME	ENDATIONS			
On antic	<mark>ripation of heavy</mark>	rainfall:			
Suspend	all spray operat	tions			
• Do not g	o for fertilizer/n	nanure applications			
<ul> <li>Proper d</li> </ul>	lrainage to all cr	op to avoid runoff			
	DETAILS OF ADVISORIES FOR THE PERIOD				
Crop	Stage	Pest/Disease		Precautionary Practices to be followed	
		FI	ELD	CROPS	
WRC-RICE	Nursery		*	Sowing of quality seeds in prepared nursery,	
(Mipun)			*	Before sowing, treat seeds with solution of Carbandazim	
				50WP @ 1 grams in one litre of water per kilogram of seeds.	
Kharif Maize	Sowing		*	Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek	
				QPM-9 etc from certified agency	
			*	Ensure seed treatment with carbendazim/Thiram @2g/kg	

			seeds.
Toria/ Mustard	Harvesting	Aphids	<ul> <li>Harvest during clear/dry days</li> </ul>
			<ul> <li>Provide adequate drainage</li> </ul>
			<ul> <li>If the infestation is high, Spray Dimethoate 30EC @2ml/litr</li> </ul>
			against aphids in Rapeseed/Mustard using sticker or durin
			clear/dry days.
Jhum rice	Leaf	Leaf blast/ leaf	• On clear/sunny days, spray carbendazim @2g/lit water i
	elongation/	spot	jhum field to control heavy infestation of leaf blast & lea
	tillering		spot.
			• Provide proper drainage and soil conservation measures lik
			mulching with locally available materials.
			Keep the periphery clean
			Avoid application of fertilizer and insecticides/pesticides
			Manual weeding may be done during dry days
Rice	Transplantation	Stem borer	• On anticipation of rain, provide proper drainage to th
	/ leaf		nursery/main field to avoid runoff
	elongation		• Rice: Weed free & clean nursery periphery to preven
			disease/pest harboring.
			• Cut the tips of the leaves before transplanting reduces th
			population of stem borer as the eggs are laid on that site.
			will reduce the carryover of the infestation to the main field.
			VEGETABLES
French Bean,	Vegetative/	Bean borer	<ul> <li>Because of heavy rainfall the exposed roots portion of the</li> </ul>
black gram,	Fruiting		plant should be earthened up,
green gram.			<ul> <li>Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the</li> </ul>
			crop field,
Vegetables	Vegetative	Leaf eating	<ul> <li>Monitor for possible insect/pest attack</li> </ul>
C	0	insects	✤ During clear dry days or using stickers, foliar spray of
			Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eatin
			insects.
Cuandrita	Flowering of	Lasfasting	Provide adequate drainage
Cucurbits	Flowering/ Fruiting	Leaf eating insects	<ul> <li>Monitor for possible attack of insect/pests</li> <li>During clear dry days or using stickers, foliar spray of</li> </ul>
	Tutting	mseets	Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating
			insects.
			Cover the base of crop with locally available mulches
			to avoid exposure to erosion,.
			ICULTURAL CROPS
Citrus	Flowering/	Phytophthora	Right time for seedling-follow half moon terraces wit
	Seedling		spacing of 5 meter.
			• Prepare half moon terraces for fruit crop
			(orange/banana/apple/peach) in steep slopes to prever nutrient loss due to rain.
			<ul> <li>During clear dry days, apply Bordeaux paste on the tree trun</li> </ul>
			upto the height of 24 inches by brush.
			• During clear dry days or using stickers during rain, sprayin
			• During cical dry days of using success during rain, sprayin
			and drenching with metalaxyl MZ-72 @ 2.75 g/lit water o
		-	and drenching with metalaxyl MZ-72 @ 2.75 g/lit water o the tree against Phytophthora.
Apple	Fruiting	Fruit drop /	<ul> <li>and drenching with metalaxyl MZ-72 @ 2.75 g/lit water o the tree against Phytophthora.</li> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to</li> </ul>
Apple	Fruiting	Fruit drop / wooly aphids	<ul> <li>and drenching with metalaxyl MZ-72 @ 2.75 g/lit water o the tree against Phytophthora.</li> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> </ul>
Apple	Fruiting		<ul> <li>and drenching with metalaxyl MZ-72 @ 2.75 g/lit water o the tree against Phytophthora.</li> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away</li> </ul>
Apple	Fruiting		<ul> <li>and drenching with metalaxyl MZ-72 @ 2.75 g/lit water o the tree against Phytophthora.</li> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during</li> </ul>
		wooly aphids	<ul> <li>and drenching with metalaxyl MZ-72 @ 2.75 g/lit water o the tree against Phytophthora.</li> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</li> </ul>
Apple Kiwi	Fruiting Flowering	wooly aphids Leaf eating	<ul> <li>and drenching with metalaxyl MZ-72 @ 2.75 g/lit water of the tree against Phytophthora.</li> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</li> <li>Kiwi fruit vine should be covered with 50% shade net to</li> </ul>
		wooly aphids	<ul> <li>and drenching with metalaxyl MZ-72 @ 2.75 g/lit water of the tree against Phytophthora.</li> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</li> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> </ul>
		wooly aphids Leaf eating	<ul> <li>and drenching with metalaxyl MZ-72 @ 2.75 g/lit water of the tree against Phytophthora.</li> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</li> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <li>Hand collection of the insects and its destruction,</li> </ul>
Kiwi	Flowering	wooly aphids Leaf eating	<ul> <li>and drenching with metalaxyl MZ-72 @ 2.75 g/lit water of the tree against Phytophthora.</li> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</li> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <li>Hand collection of the insects and its destruction,</li> <li>Make proper drainage facility in the crop area</li> </ul>
Apple Kiwi Ginger/ Turmeric	Flowering Germination/	wooly aphids Leaf eating	<ul> <li>and drenching with metalaxyl MZ-72 @ 2.75 g/lit water o the tree against Phytophthora.</li> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</li> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <li>Hand collection of the insects and its destruction,</li> <li>Make proper drainage facility in the crop area</li> <li>Mulching ginger beds with locally available</li> </ul>
Kiwi	Flowering	wooly aphids Leaf eating	<ul> <li>and drenching with metalaxyl MZ-72 @ 2.75 g/lit water of the tree against Phytophthora.</li> <li>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days</li> <li>Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.</li> <li>Hand collection of the insects and its destruction,</li> <li>Make proper drainage facility in the crop area</li> </ul>

			*	Proper drainage to avoid water stagnation
Peach	Fruit maturing	Fruit Fly	*	Install fruit fly pheromone traps,
			*	Collect and dispose off the fallen fruits.
			*	Clean basin,
Temperate fruits	After harvesting		*	Training & pruning of the temperate crops (apple/pears/peach) is recommended
			Hone	ey Bees
Honey bees			*	Provide sugar syrup near the box
			*	Add insulation and ventilation systems
			LIVES	STOCKS
Livestock	Stage	Disease		Precautionary Practices to be followed
Pigs	All stages	FMD (high fever	*	Food waste or garbage fed to swine must be cooked and
		and appearance		sterilized properly. Cooking the different raw materials
		of mucous		together is advocated to improve digestibility and to
		membrane of the mouth and foot.)		break- down toxins from some feeds.
		Swine Fever	*	Avoid dampness and cover weak and sick animals with sack
		Swille Fever		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			*	To avoid water turbidity, use grass turfing or horticultura
-				crop at embankment/dyke of the earthen fish pond.
Poultry	All stages		*	Provide shelter to the backyard/scavenging poultry. Feed
				grains in the morning/evening to supplement scavenging.
			*	
				prevention of cocciodiosis.
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
Mithun		FMD	*	Polyvalent FMD vaccine with serotype O, A and Asia at (
				months of age and repeat after that 6 months interval by sub
			•	cutaneous route.
			**	Pregnant animals above 7 months of pregnancy should be avoided.
Contact Scien	tists (ICAR) or S			K staff for measures against adverse conditions or call
		at 03	<b>795-2</b> 2	26237/226247

> Agrometeorological Field Unit ICAR, BASAR

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th 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 summery of the previous week	Weather forecast valid up to 17 <sup>th</sup> June 2018
Rainfall = Bomdila: NA ; Bhalukpong: 17.0	Mostly cloudy with possibility rather heavy/heavy rainfall. Daily
mm; Kalaktang: 20.2 mm	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.
Warning:	• Heavy rain is very likely to occur at isolated places on 12th,
	13th, 14th & 16th June, '18 and heavy to very heavy rainfall is
	very likely to occur at isolated places on 15th and16th June'18

### GENERAL RECOMMENDATIONS

- On anticipation of heavy rainfal
- 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 CROP</b>	FIELD CROPS				
Maize	Fruiting/	Stem borer	*	Harvest of mature cobs during clear/dry days.	
	Mature	Rat	*	To protect the cobs from rat use of locally available traps	
				is advised,	
Jhum rice	Leaf elongation	Leaf blast/	•	On clear/sunny days, spray carbendazim @2g/lit water in	

VEGETABLES         Secure of heavy rainfall the exposed roots portion of the black gram, green gram.         Vegetative/ Fruiting         Bean borer         Subscription           Vegetables         Vegetative/ Fruiting         Leaf eating insects         Subscription         Any type of caterpillar observed in the field may be manually collected and destroyed in the dusk hours in the crop field.           Vegetables         Vegetative         Leaf eating insects         Monitor for possible insect/pest attack           Cucurbits         Flowering/ Fruiting         Leaf eating insects         Monitor for possible attack of insect/pests           Outrust         Flowering/ Fruiting         Leaf eating insects         Monitor for possible attack of insect/pests           Apple         Fruit drop / wooly aphids         Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop           Apple         Fruit drop / wooly aphids         Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop           Kiwi         Flowering         Leaf eating beetle         Swift fruit wine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.           Kiwi         Flowering         Fruit drop/ Phytophthora         Swift fruit wine should be covered with 50% shade net to protect flower from heavy rain and hail storm.           Kiwi         Flowering         Fruit drop/ Phytophthora         Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit frop/ Phytophth	Rice	Transplantation / leaf elongation	leaf spot/ Yellow stem borer	<ul> <li><i>jhum</i> field to control infestation of leaf blast &amp; leaf spot.</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> <li>On anticipation of rain, provide proper drainage to the nursery/main field to avoid runoff</li> <li>Rice: Weed free &amp; clean nursery periphery to prevent disease/pest harboring.</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>
French Bean, black gram, green gram.         Vegetative/ Fruiting         Bean borer	VEGETABLE	S	<u> </u>	
Vegetables       Vegetative       Leaf eating insects       Monitor for possible insect/pest attack         Cucurbits       Flowering/ Fruiting       Leaf eating insects       Monitor for possible attack of insect/pest attack         Cucurbits       Flowering/ Fruiting       Leaf eating insects       Monitor for possible attack of insect/pests         Ouring clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.       Provide adequate drainage         Cucurbits       Flowering/ Fruiting       Leaf eating insects.       Monitor for possible attack of insect/pests         Apple       Fruit drop / wooly aphids       Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop         Kiwi       Flowering       Leaf eating beetle       % Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.         Citrus       Flowering       Fruit drop/ Phytophthora       % Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.         Ginger/Turmeric       Germination/ Vegetative       Proteor       Potiar application of micronutrien/multiplex @ 0.2% should be done to prevent flower drop         Ouring clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on the true against Phytophthora.       Proper half moon terraces for fruit crops (orange/beanha/apple/peach) in steep slopes to prevent nurirent loss due to rain.      <	French Bean, black gram,	Vegetative/	Bean borer	<ul> <li>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</li> </ul>
CucurbitsFlowering/ FruitingLeaf eating insects* Monitor for possible attack of insect/pests * During clear dry days or using stickers, foliar spray of Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects. * Cover the base of crop with locally available mulches to avoid exposure to erosion,.HORTICULTURAL CROPS*AppleFruitingFruit drop / wooly aphids* Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop * Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry daysKiwiFloweringLeaf eating beetle* Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm. * Hand collection of the insects and its destruction, * Make proper drainage facility in the crop areaCitrusFloweringFruit drop/ Phytophthora• Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower drop • 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 Phytophtora.Ginger/ TurmericGermination/ Vegetative* 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 & conserve moisture during dry gasons. * Collect and dispose of the fallen fruits. * Collect and dispose of the fallen fruits. * Clean basin,	Vegetables	Vegetative	÷	<ul> <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> </ul>
HORTICULTURAL CROPS         Apple       Fruiting       Fruit drop / wooly aphids       \$ Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop         Apple       Fruiting       Fruit drop / wooly aphids       \$ Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop         Kiwi       Flowering       Leaf eating beetle       \$ Kiwi fruit vine should be covered with 50% shade net to protect flowers from heavy rain and hail storm.         Citrus       Flowering       Fruit drop/ Phytophthora       \$ Foliar application of micronutrien/multiplex @ 0.2% should be done to prevent flower drop         Citrus       Flowering       Fruit drop/ Phytophthora       Foliar application of micronutrien/multiplex @ 0.2% should be done to prevent flower drop         Ouring clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.       During clear dry days or using stickers during rain, spraying and drenching with metaaxyl MZ-72 @ 2.75 g/lit water on the tree against Phytophthora.         Ginger/Turmeric       Germination/ Vegetative       \$ 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 & conserve moisture during dry seasons.         Proper drainage to avoid water stagnation       \$ Install fruit fly pheromone traps, \$ Collect and dispose of the fallen fruits. \$ Celean basin,         Banana       Bunching       Cold       \$ Cover newly emerged bunches with locally available sack to protect fr	Cucurbits		-	<ul> <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</li> </ul>
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beetleprotect flowers from heavy rain and hail storm.CitrusFloweringFruit drop/ Phytophthora• Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower dropCitrusFloweringFruit drop/ Phytophthora• Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower dropCitrusFloweringFruit drop/ Phytophthora• Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower dropCitrusFloweringFruit drop/ Phytophthora• Foliar application of micronutrient/multiplex @ 0.2% should be done to prevent flower dropOuring clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.• 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.Ginger/TurmericGermination/ Vegetative• 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 & conserve moisture during dry seasons. • Proper drainage to avoid water stagnationPeachFruit maturingFruit Fly• Install fruit fly pheromone traps, • Collect and dispose off the fallen fruits. • Collect and sing,BananaBunchingCold* Cover newly emerged bunches with locally available sack to protect from cold/frost				<ul> <li>inhibit fruit drop</li> <li>Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during</li> </ul>
PhytophthoraPhytophthorashould be done to prevent flower dropDuring clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.During clear dry days or using stickers during rain, spraying and drenching with metalaxyl MZ-72 @ 2.75 g/lit water on 	Kiwi	Flowering	Ŭ	<ul> <li>protect flowers from heavy rain and hail storm.</li> <li>Hand collection of the insects and its destruction,</li> </ul>
Ginger/Turmeric VegetativeGermination/ VegetativeMulching singer eaves/materials matter to the soil & conserve moisture during dry seasons. 	Citrus	Flowering	·	<ul> <li>should be done to prevent flower drop</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</li> </ul>
PeachFruit maturingFruit FlyInstall fruit fly pheromone traps, Collect and dispose off the fallen fruits. Clean basin,BananaBunchingColdCover newly emerged bunches with locally available sack to protect from cold/frost	Ginger/ Turmeric			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 & conserve moisture during dry seasons.
protect from cold/frost				<ul> <li>Install fruit fly pheromone traps,</li> <li>Collect and dispose off the fallen fruits.</li> <li>Clean basin,</li> </ul>
	Banana	Bunching	Cold	

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	<ul> <li>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.</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 weigh</li> </ul>
Fishery			<ul> <li>To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.</li> </ul>
Yak	All stages		<ul> <li>Feeding of concentrate feed along with mineral mixtur and salt.</li> <li>Hay feeding is recommended.</li> </ul>
Poultry	All stages		<ul> <li>Provide shelter to the backyard/scavenging poultry. Fee grains in the morning/evening to supplement scavenging.</li> <li>Day old chick-Maintain warmth by lighting,</li> <li>In present weather conditions protect the birds from cold busing gunny bags/plastic sheets around the poultry shed durin night,</li> <li>Provide heat by lighting 100W bulb @ 1 bulb per 20 new born chicks.</li> </ul>
Cattle	All stages	FMD	<ul> <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 3         kg body weight.</li> <li>Provide proper bedding materials especially to new-born an         lukewarm food &amp; water</li> <li>Heavy mortality in cloven footed animals has been reported.</li> <li>Supportive treatment of infected animals under supervision oveterinary department officials,</li> <li>Avoid mixing of infected and healthy animals,</li> <li>Keep infected animals separated from the healthy ones,</li> <li>Vaccinate the healthy animals against FMD (Through Sta         Veterinary Dept.)</li> <li>Provide feed supplements</li> </ul>
Mithun		FMD	<ul> <li>Polyvalent FMD vaccine with serotype O, A and Asia at months of age and repeat after that 6 months interval by su cutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should avoided.</li> </ul>

> Agrometeorological Field Unit ICAR, BASAR

# **Agro-met Advisory Bulletin**

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

No: AMFU-Basar/2018/47

Dated: Tue, 12th 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 summery 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:	Mostly cloudy with possibility of rather heavy to heavy rainfall.
18.7°C, Wind Speed: 3-6 km/h, RH: 48-90%,	Daily maximum and minimum temperature for the following period
Wind Direction: NNW & WNW	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.
Warning:	• Heavy rain is very likely to occur at isolated places on 12th,
	13th, 14th & 16th June, '18 and heavy to very heavy rainfall is
	very likely to occur at isolated places on 15th and16th June'18

GENER	GENERAL RECOMMENDATIONS					
On antic	ipation of heavy	rainfall:				
Suspend	all spray operat	ions				
• Do not g	o for fertilizer/m	anure applications				
<ul> <li>Proper d</li> </ul>	rainage to all cr	op to avoid runoff				
DETAILS OF ADVISORIES FOR THE PERIOD						
Crop	Stage	Pest/Disease		Precautionary Practices to be followed		
FIELD CROPS	5					
WRC-RICE	Nursery		*	Sowing of quality seeds in prepared nursery		
(Normal sown)			*	Recommended varieties: Amham, Vandana, RCM-7,10,11,		
				CAUR-1, Ranjit		
			*	Before sowing, treat seeds with solution of Carbandazim		
				50WP @ 1 grams in one litre of water per kilogram of seeds.		

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Kharif Maize	Sowing		*	Collect seed of variety DA-61A, Vivek Hybrid-21, Vivek QPM-9 etc from certified agency
			*	Ensure seed treatment with carbendazim/Thiram @2g/kg seeds.
Rice (Early	Leaf	Stem borer	*	Rice: Weed free & clean nursery periphery to prevent
sown)	Elongation/	Stelli bolei	•	disease/pest harboring.
	Tillering		*	Rice: Spray Triazophos 40EC @ 4 ml/lit against stem borer in
			•	rice nursery as well as in main field.
Jhum rice	Leaf	Leaf blast/ leaf	*	-
	elongation/	spot		<i>jhum</i> field to control heavy infestation of leaf blast & leaf
	tillering			spot.
			*	Provide proper drainage and soil conservation measures like
				mulching with locally available materials.
			*	Keep the periphery clean
			*	Avoid application of fertilizer and insecticides/pesticides
			*	Manual weeding may be done during dry days
Maize	Fruiting/	Stem borer	*	8 2 2
	Mature	Rat	*	To protect the cobs from rat use of locally available traps is advised,
VEGETABLE	S			
Chilli/ tomato/	Vegetative/	Leaf Curl	*	Spray imidacloprid 17.8 SL (0.003%) to the crops
brinjal	Flowering	Deersheere		inside net/green house or grown in shade
French Bean, black gram,	Vegetative/ Fruiting	Bean borer	*	Because of heavy rainfall the exposed roots portion of the plant should be earthened up,
green gram.	Tutting		*	Any type of caterpillar observed in the field may be manually
0 0				collected and destroyed in the dusk hours in the crop field,
Sponge, bitter,	Vegetative/	Fruit fly	*	
ash & ridge	Fruiting		*	Provide support to the plants to climb, as high intensity
gourd, pumpkin, cucumber				rainfall at this stage will damage the plant,
Vegetables	Vegetative	Leaf eating	*	Monitor for possible insect/pest attack
, generes	, egetter e	insects	-	During clear dry days or using stickers, foliar spray of
				Azadirachtin 0.15% EC 2@ 6ml/lit against leaf eating insects.
			*	Provide adequate drainage
HORTICULT Citrus	Flowering/	Phytophthora		Right time for seedling-follow half moon terraces with
Ciuus	Seedling	Filytophthora	•	spacing of 5 meter.
	8		•	Prepare half moon terraces for fruit crops
l .				
				(orange/banana/apple/peach) in steep slopes to prevent nutrient loss due to rain.
			•	nutrient loss due to rain. During clear dry days, apply Bordeaux paste on the tree trunk
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Ginger/ Turmeric				nutrient loss due to rain.During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush.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.Mulchinggingerbedswithlocallyavailable
Ginger/ Turmeric	Germination/ Vegetative		•	nutrient loss due to rain. During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush. 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. Mulching ginger beds with locally available leaves/materials is advocated to enhance germination,
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	Vegetative	Fruit drop / wooly aphids	•	nutrient loss due to rain. During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush. 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. <b>Mulching ginger beds with locally available</b> <b>leaves/materials is advocated to enhance germination,</b> <b>prevent washing off during heavy rainfall, add organic</b> <b>matter to the soil &amp; conserve moisture during dry seasons.</b> <b>Proper drainage to avoid water stagnation</b> <b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to</b> <b>inhibit fruit drop</b>
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Apple	Vegetative Fruiting	wooly aphids	• * *	nutrient loss due to rain. During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush. 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. <b>Mulching ginger beds with locally available</b> <b>leaves/materials is advocated to enhance germination,</b> <b>prevent washing off during heavy rainfall, add organic</b> <b>matter to the soil &amp; conserve moisture during dry seasons.</b> <b>Proper drainage to avoid water stagnation</b> <b>Spray 2,4,5-T @ 20ppm or 2,4,5-TCPA @ 15ppm to</b> <b>inhibit fruit drop</b> <b>Application of paradiclorobenzene at 2 meter away</b> <b>from the trunk is advised against wooly aphids during</b> <b>clear/dry days</b>
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Apple Kiwi	Vegetative Fruiting Flowering	wooly aphids Leaf eating beetle	• * * * *	nutrient loss due to rain. During clear dry days, apply Bordeaux paste on the tree trunk upto the height of 24 inches by brush. 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. <b>Mulching ginger beds with locally available</b> <b>leaves/materials is advocated to enhance germination,</b> <b>prevent washing off during heavy rainfall, add organic</b> <b>matter to the soil &amp; conserve moisture during dry seasons.</b> <b>Proper drainage to avoid water stagnation</b> <b>Spray 2,4,5-T</b> @ 20ppm or 2,4,5-TCPA @ 15ppm to inhibit fruit drop Application of paradiclorobenzene at 2 meter away from the trunk is advised against wooly aphids during clear/dry days <b>Kiwi fruit vine should be covered with 50% shade net to</b> <b>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>
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Scary beetles	<ul> <li>Earthing up followed by fertilizer application</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>
	<ul> <li>Sowing in primary nursery bed at 2cm depth &amp; 10cm apart with mulching &amp; regular irrigation.</li> <li>Applications of well decomposed cattle manure/compost @5kg/plant during clear/dry days.</li> </ul>
	<ul> <li>Cover the boxes with locally available dry grass or straw to provide warmt</li> </ul>
Disease	Precautionary Practices to be followed
FMD (high fever and appearance of mucous membrane of the mouth and foot.) Swine Fever	<ul> <li>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.</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>
	To avoid water turbidity, use grass turfing or horticultura crop at embankment/dyke of the earthen fish pond.
	<ul> <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>Inclusion of turmeric powder @ 10g/kg feed for prevention of cocciodiosis.</li> </ul>
FMD	<ul> <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> <li>Provide feed supplements</li> </ul>
FMD	<ul> <li>Polyvalent FMD vaccine with serotype O, A and Asia at 6 months of age and repeat after that 6 months interval by subcutaneous route.</li> <li>Pregnant animals above 7 months of pregnancy should be avoided.</li> </ul>
S	FMD State Agril Staff or at 0379