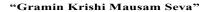


ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Ukhrul

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

# Weather forecast for Ukhrul (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 27-28  $^{\circ}$ C & mini. temp. 23-24  $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 89 % (min). The average wind speed may be 4-5 km/hr.

Date of issue: 9th July, 2019

- 1. Harvest rain water wherever possible to cope up water shortage problems after rains.
- 2. Monitor insect pest infestation in the crop field.
- 3. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.

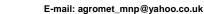
3. Add sanitize	a in utiliking water for	onus anu ammais. A	void leakage of rain water in sheds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cmTreat seeds with Carbendazim @ 2g/kg seeds.
		Thrips  Bacterial Leaf	<ul> <li>Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.</li> <li>After rains, spray Streptocycline @ 3g/ litre water against Bacterial</li> </ul>
		Blight	Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	<ul> <li>Avoid water logging if it rains heavy.</li> <li>Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre water.</li> </ul>
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		Red hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide after rains.
Millet	Sowing		<ul> <li>Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing.</li> <li>Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.</li> </ul>
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>

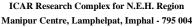


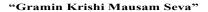


## "Gramin Krishi Mausam Seva"

				n newly established orchard, intercropping with cabbage/ cauliflower/ adish/ carrot or spinach may be followed.
Cucurbits	Fruiting to harvesting	Powdery mi	ldew -	Support/ stack properly to avoid any loss due to contact of fruits with oil and to avoid overcrowding of leaves/ branches.  If there is infestation of Powdery mildew in large scale, first harvest nature fruits and spray Bayleton @ 7 gm/ lit of water after rains.
Colocasia	Corm formation	on	- d	Weeding and earthing up of the soil at the base of the plant may be lone after rains to enhance corm development. Drain out excess water. Spray D-M 45 @ 2g/lit of water to protect from leaf spot.
Animal Sciences				
Name of bird/ anima	al Stage	Disease/ Managemen	nt	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Endoparasites		De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	age groups	Coccidiosis	of	As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit water.
		coli bacillosis	pui	ld sanitizer in drinking water and avoid muddy water for drinking rpose.
Pig	Above 3	Coccidial infection		Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or skin infection  Management		nject Neomac @ 1 ml/ 10 kg body weight.
				reat drinking water with potassium permanganate/ sanitizer. Provide aple ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis		De-worming with suitable Anthelmatics against Faciolasis.
	months of age	Endoparasite/ Ectoparasite		nject Parid @ 1 ml/ 50 kg body weight.
		Management	- E lev - P	Provide wholesome water. Protection from high temp may be ensured. Electrolytes in the form of powder/ liquid may be given. Increase salt wel in feed.  Protect animals from PICA (depraved appetite) by providing essential bdy salts (mineral forte powder) 25g/day.
Goat	All age groups except three	Fascioliosis  Endoparasite/ Ectoparasite		Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with amins like Livozyme @ 50ml twice daily.
	months or below			eworm using Minthal bolus @ ½ bolus per 20 kg body weight companied with Livozyme @ 50ml daily.
		Management		Ty repellent must be used. Disinfection of farm and premises are to be rried out strictly. Due care need to be taken to prevent spread of disease used by flies/ mosquitoes/ ticks, etc.
Fishery:				
	Seed production	Pond and Water		depth should be maintained at 2.0 m y lime 30 Kg/ha every 30 days interval
		Feed	Provide splits	Nutritionally well balanced feed @ 3.5% body weight per day in two
		Fish	Select fu	ully matured male and female brood fish for induced breeding
Hatchery Unit	2. Put only r	clean hapas (if hapa breeding is done) and incubators recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and e of water capacity)		
			having opt	timum dissolved oxygen and PH level for hatching.









#### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Imphal West

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

## Weather forecast for Patsoi (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate upto Sunday. The sky will remain mainly cloudy to overcast with average max. temp. 29.3 °C & mini. temp. 23.9 °C. Relative humidity may reach upto 97.2 % (max) & 80.2 % (min). The average wind speed may be 4.6 km/hr.

Block: Patsoi

Date of issue: 9th July, 2019

- 1. Harvest rain water wherever possible to cope up water shortage problems after rains.
- 2. Monitor insect pest infestation in the crop field.
- 3. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.

Field Crops	a in Grinking water for	on as and annuals. A	void leakage of rain water in sneds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cmTreat seeds with Carbendazim @ 2g/kg seeds.
		Thrips  Bacterial Leaf	<ul> <li>Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.</li> <li>After rains, spray Streptocycline @ 3g/ litre water against Bacterial</li> </ul>
	Direct seeding with drum seeder	Blight	Leaf Blight.  - Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated
			seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	<ul> <li>Avoid water logging if it rains heavy.</li> <li>Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre water.</li> </ul>
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		Red hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide after rains.
Millet	Sowing		- Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>





## "Gramin Krishi Mausam Seva"

				In newly established orchard, intercropping with cabbage/ cauliflower/ radish/ carrot or spinach may be followed.	
Cucurbits	Fruiting to harvesting	Powdery m	ildew	<ul> <li>Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.</li> <li>If there is infestation of Powdery mildew in large scale, first harvest mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.</li> </ul>	
Colocasia	Corm formation	on		<ul> <li>Weeding and earthing up of the soil at the base of the plant may be done after rains to enhance corm development. Drain out excess water.</li> <li>Spray D-M 45 @ 2g/lit of water to protect from leaf spot.</li> </ul>	
Animal Sciences					
Name of bird/ anim	nal Stage	Disease/ Manageme	ent	Agro-meteorological advisories	
Poultry (Chicken Duck)	susceptible	Endoparasites		- De-worm using Piperazine citrate Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.	
	age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.	
		coli bacillosis		Add sanitizer in drinking water and avoid muddy water for drinking purpose.	
Pig	Above 3 months of age	Coccidial infection Endo/ Ecto parasite or skin infection		<ul> <li>Ofloxacine/ Ornidazole (O<sub>2</sub>) tab twice daily for 5 days.</li> <li>Inject Neomac @ 1 ml/ 10 kg body weight.</li> </ul>	
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.	
	months of age	Endoparasite/ Ectoparasite		- Inject Parid @ 1 ml/ 50 kg body weight.	
		Management		<ul> <li>- Provide wholesome water. Protection from high temp may be ensured.</li> <li>- Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>- Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>	
Goat	All age groups except three	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
	months or below	Endoparasite/ Ectoparasite		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		Management		- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.	
Fishery:					
Carp culture	Seed production	Pond and Water		ater depth should be maintained at 2.0 m oply lime 30 Kg/ha every 30 days interval	
		Feed	Provi splits	ide Nutritionally well balanced feed @ 3.5% body weight per day in two	
		Fish		et fully matured male and female brood fish for induced breeding	
Hatchery Unit	2. Put only r 1275 litre	ecommended no. of e of water capacity)	ean hapas (if hapa breeding is done) and incubators commended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
	<ol><li>Supply on</li></ol>	only good water quality having optimum dissolved oxygen and PH level for hatching.			



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



#### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Imphal West

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

Weather forecast for Wangoi (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate upto Sunday. The sky will remain mainly cloudy to overcast with average max. temp. 29.9 °C & mini. temp. 23.6 °C. Relative humidity may reach upto 96.4 % (max) & 78.0 % (min). The average wind speed may be 4.8 km/hr.

Block: Wangoi

Date of issue: 9th July, 2019

- 1. Harvest rain water wherever possible to cope up water shortage problems after rains.
- 2. Monitor insect pest infestation in the crop field.
- 3. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.

Field Crops			void leakage of failt water in sneds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cmTreat seeds with Carbendazim @ 2g/kg seeds.
		Thrips  Bacterial Leaf	<ul> <li>Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.</li> <li>After rains, spray Streptocycline @ 3g/ litre water against Bacterial</li> </ul>
		Blight	Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	<ul> <li>Avoid water logging if it rains heavy.</li> <li>Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre water.</li> </ul>
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		Red hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide after rains.
Millet	Sowing		- Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Stage Planting	Pest and disease Lichen incidence	Agro-meteorological advisories  - If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>





## "Gramin Krishi Mausam Seva"

				In newly established orchard, intercropping with cabbage/ cauliflower/ radish/ carrot or spinach may be followed.	
Cucurbits	Fruiting to harvesting	Powdery m	ildew	<ul> <li>Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.</li> <li>If there is infestation of Powdery mildew in large scale, first harvest mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.</li> </ul>	
Colocasia	Corm formation	on		<ul> <li>Weeding and earthing up of the soil at the base of the plant may be done after rains to enhance corm development. Drain out excess water.</li> <li>Spray D-M 45 @ 2g/lit of water to protect from leaf spot.</li> </ul>	
Animal Sciences					
Name of bird/ anim	nal Stage	Disease/ Manageme	ent	Agro-meteorological advisories	
Poultry (Chicken Duck)	susceptible	Endoparasites		- De-worm using Piperazine citrate Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.	
	age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.	
		coli bacillosis		Add sanitizer in drinking water and avoid muddy water for drinking purpose.	
Pig	Above 3 months of age	Coccidial infection Endo/ Ecto parasite or skin infection		<ul> <li>Ofloxacine/ Ornidazole (O<sub>2</sub>) tab twice daily for 5 days.</li> <li>Inject Neomac @ 1 ml/ 10 kg body weight.</li> </ul>	
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.	
	months of age	Endoparasite/ Ectoparasite		- Inject Parid @ 1 ml/ 50 kg body weight.	
		Management		<ul> <li>- Provide wholesome water. Protection from high temp may be ensured.</li> <li>- Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>- Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>	
Goat	All age groups except three	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
	months or below	Endoparasite/ Ectoparasite		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		Management		- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.	
Fishery:					
Carp culture	Seed production	Pond and Water		ater depth should be maintained at 2.0 m oply lime 30 Kg/ha every 30 days interval	
		Feed	Provi splits	ide Nutritionally well balanced feed @ 3.5% body weight per day in two	
		Fish		et fully matured male and female brood fish for induced breeding	
Hatchery Unit	2. Put only r 1275 litre	ecommended no. of e of water capacity)	ean hapas (if hapa breeding is done) and incubators commended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
	<ol><li>Supply on</li></ol>	only good water quality having optimum dissolved oxygen and PH level for hatching.			





"Gramin Krishi Mausam Seva"



## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Imphal West

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

Weather forecast for Haorangsabal (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate upto Sunday. The sky will remain mainly cloudy to overcast with average max. temp. 29.0 °C & mini. temp. 23.9 °C. Relative humidity may reach upto 97.8 % (max) & 82.0 % (min). The average wind speed may be 4.4 km/hr.

Date of issue:  $9^{th}$  July, 2019

**Block:** Haorangsabal

# General Advisory:

1. Harvest rain water wherever possible to cope up water shortage problems after rains.

Phone: 2414654, 2414260, 2414749; Fax: (0385) 2414654, 2414749

- 2. Monitor insect pest infestation in the crop field.
- 3. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.

Field Crops	or in urming water for		void leakage of rain water in sneds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cmTreat seeds with Carbendazim @ 2g/kg seeds.
		Thrips  Bacterial Leaf	<ul> <li>Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.</li> <li>After rains, spray Streptocycline @ 3g/ litre water against Bacterial</li> </ul>
		Blight	Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	<ul> <li>- Avoid water logging if it rains heavy.</li> <li>- Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre water.</li> </ul>
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		Red hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide after rains.
Millet	Sowing		- Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>



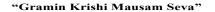


#### "Gramin Krishi Mausam Seva"

				ICAR	
				In newly established orchard, intercropping with cabbage/ cauliflower/ radish/ carrot or spinach may be followed.	
Cucurbits	Fruiting to harvesting	Powdery mi	ldew	<ul> <li>Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.</li> <li>If there is infestation of Powdery mildew in large scale, first harvest mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.</li> </ul>	
Colocasia	Corm formation	on		- Weeding and earthing up of the soil at the base of the plant may be done after rains to enhance corm development. Drain out excess water Spray D-M 45 @ 2g/lit of water to protect from leaf spot.	
Animal Sciences					
Name of bird/ animal	l Stage	Disease/ Managemen	nt	Agro-meteorological advisories	
Poultry (Chicken/ Duck)	All susceptible	Endoparasites		De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.	
	age groups	Coccidiosis	O	As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.	
		coli bacillosis	p	Add sanitizer in drinking water and avoid muddy water for drinking ourpose.	
Pig	Above 3	Coccidial infection		Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
	months of age	Endo/ Ecto parasite or skin infection		Inject Neomac @ 1 ml/ 10 kg body weight.	
		Management	a	Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Faciolasis		De-worming with suitable Anthelmatics against Faciolasis.	
	months of age	Endoparasite/ Ectoparasite		Inject Parid @ 1 ml/ 50 kg body weight.	
Management		Management	- 1 -	- Provide wholesome water. Protection from high temp may be ensured Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.	
Goat	All age groups except three	Fascioliosis	-	Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
	months or below	Endoparasite/ Ectoparasite	Ι	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		Management		Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.	
Fishery:					
	Seed production	Pond and Water		1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval	
		Feed Pro		de Nutritionally well balanced feed @ 3.5% body weight per day in two	
***	1 17 1			fully matured male and female brood fish for induced breeding	
Hatchery Unit	2. Put only r	clean hapas (if hapa breeding is done) and incubators recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and e of water capacity)			
3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.				optimum dissolved oxygen and PH level for hatching.	



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





#### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Imphal West

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

Weather forecast for Hiyangthang (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate upto Sunday. The sky will remain mainly cloudy to overcast with average max. temp.  $29.4~^{\circ}\text{C}$  & mini. temp.  $23.7~^{\circ}\text{C}$ . Relative humidity may reach upto 96.8~% (max) & 79.0~% (min). The average wind speed may be 4.8~km/hr.

Date of issue:  $9^{th}$  July, 2019

**Block:** Hiyangthang

- 1. Harvest rain water wherever possible to cope up water shortage problems after rains.
- 2. Monitor insect pest infestation in the crop field.

Field Crops			void leakage of rain water in sheds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cmTreat seeds with Carbendazim @ 2g/ kg seeds.
		Thrips	- Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- After rains, spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob		- Avoid water logging if it rains heavy.
	initiation	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		Red hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide after rains.
Millet	Sowing		- Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>



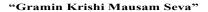


## "Gramin Krishi Mausam Seva"

				In newly established orchard, intercropping with cabbage/ cauliflower/ radish/ carrot or spinach may be followed.	
Cucurbits	Fruiting to harvesting	Powdery m	ildew	<ul> <li>Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.</li> <li>If there is infestation of Powdery mildew in large scale, first harvest mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.</li> </ul>	
Colocasia	Corm formation	on		<ul> <li>Weeding and earthing up of the soil at the base of the plant may be done after rains to enhance corm development. Drain out excess water.</li> <li>Spray D-M 45 @ 2g/lit of water to protect from leaf spot.</li> </ul>	
Animal Sciences					
Name of bird/ anim	nal Stage	Disease/ Manageme	ent	Agro-meteorological advisories	
Poultry (Chicken Duck)	susceptible	Endoparasites		- De-worm using Piperazine citrate Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.	
	age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.	
		coli bacillosis		Add sanitizer in drinking water and avoid muddy water for drinking purpose.	
Pig	Above 3 months of age	Coccidial infection Endo/ Ecto parasite or skin infection		<ul> <li>Ofloxacine/ Ornidazole (O<sub>2</sub>) tab twice daily for 5 days.</li> <li>Inject Neomac @ 1 ml/ 10 kg body weight.</li> </ul>	
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.	
	months of age	Endoparasite/ Ectoparasite		- Inject Parid @ 1 ml/ 50 kg body weight.	
		Management		<ul> <li>- Provide wholesome water. Protection from high temp may be ensured.</li> <li>- Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>- Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>	
Goat	All age groups except three	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
	months or below	Endoparasite/ Ectoparasite		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		Management		- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.	
Fishery:					
Carp culture	Seed production	Pond and Water		ater depth should be maintained at 2.0 m oply lime 30 Kg/ha every 30 days interval	
		Feed	Provi splits	ide Nutritionally well balanced feed @ 3.5% body weight per day in two	
		Fish		et fully matured male and female brood fish for induced breeding	
Hatchery Unit	2. Put only r 1275 litre	ecommended no. of e of water capacity)	ean hapas (if hapa breeding is done) and incubators commended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
	<ol><li>Supply on</li></ol>	only good water quality having optimum dissolved oxygen and PH level for hatching.			



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Bishnupur

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

# Weather forecast for Bishnupur (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 29-30  $^{\circ}$ C & mini. temp. 25-26  $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 91 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 9th July, 2019

- 1. Harvest rain water wherever possible to cope up water shortage problems after rains.
- 2. Monitor insect pest infestation in the crop field.
- 3. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.

Field Crops			void leakage of rain water in sneds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cmTreat seeds with Carbendazim @ 2g/kg seeds.
		Thrips  Bacterial Leaf	<ul> <li>Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.</li> <li>After rains, spray Streptocycline @ 3g/ litre water against Bacterial</li> </ul>
		Blight	Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	<ul><li>Avoid water logging if it rains heavy.</li><li>Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre</li></ul>
	initiation	Tan Army Worm	water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		Red hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide after rains.
Millet	Sowing		- Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>





## "Gramin Krishi Mausam Seva"

				n newly established orchard, intercropping with cabbage/ cauliflower/ adish/ carrot or spinach may be followed.
Cucurbits	Fruiting to harvesting	Powdery mi	ldew -	Support/ stack properly to avoid any loss due to contact of fruits with oil and to avoid overcrowding of leaves/ branches.  If there is infestation of Powdery mildew in large scale, first harvest nature fruits and spray Bayleton @ 7 gm/ lit of water after rains.
Colocasia	Corm formation	on	- d	Weeding and earthing up of the soil at the base of the plant may be lone after rains to enhance corm development. Drain out excess water. Spray D-M 45 @ 2g/lit of water to protect from leaf spot.
Animal Sciences				
Name of bird/ anima	al Stage	Disease/ Managemen	nt	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Endoparasites		De-worm using Piperazine citrate. Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
	age groups	Coccidiosis	of	As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit water.
		coli bacillosis	pui	ld sanitizer in drinking water and avoid muddy water for drinking rpose.
Pig	Above 3	Coccidial infection		Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or skin infection  Management		nject Neomac @ 1 ml/ 10 kg body weight.
				reat drinking water with potassium permanganate/ sanitizer. Provide aple ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis		De-worming with suitable Anthelmatics against Faciolasis.
	months of age	Endoparasite/ Ectoparasite		nject Parid @ 1 ml/ 50 kg body weight.
		Management	- E lev - P	Provide wholesome water. Protection from high temp may be ensured. Electrolytes in the form of powder/ liquid may be given. Increase salt wel in feed.  Protect animals from PICA (depraved appetite) by providing essential bdy salts (mineral forte powder) 25g/day.
Goat	All age groups except three	Fascioliosis  Endoparasite/ Ectoparasite		Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with amins like Livozyme @ 50ml twice daily.
	months or below			eworm using Minthal bolus @ ½ bolus per 20 kg body weight companied with Livozyme @ 50ml daily.
		Management		Ty repellent must be used. Disinfection of farm and premises are to be rried out strictly. Due care need to be taken to prevent spread of disease used by flies/ mosquitoes/ ticks, etc.
Fishery:				
	Seed production	Pond and Water		depth should be maintained at 2.0 m y lime 30 Kg/ha every 30 days interval
		Feed	Provide splits	Nutritionally well balanced feed @ 3.5% body weight per day in two
		Fish	Select fu	ully matured male and female brood fish for induced breeding
Hatchery Unit	2. Put only r	clean hapas (if hapa breeding is done) and incubators recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and e of water capacity)		
			having opt	timum dissolved oxygen and PH level for hatching.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Chandel

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

# Weather forecast for Chandel (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 29-30  $^{\circ}$ C & mini. temp. 25-26  $^{\circ}$ C. Relative humidity may reach upto 98 % (max) & 78 % (min). The average wind speed may be 4 km/hr.

Date of issue: 9th July, 2019

- 1. Harvest rain water wherever possible to cope up water shortage problems after rains.
- 2. Monitor insect pest infestation in the crop field.
- 3. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.

Field Crops	a in drinking water for	on as and annuals. A	void leakage of rain water in sneds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cmTreat seeds with Carbendazim @ 2g/kg seeds.
		Thrips  Bacterial Leaf	- Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.  - After rains, spray Streptocycline @ 3g/ litre water against Bacterial
	Direct seeding with drum seeder	Blight	Leaf Blight.  - Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	<ul> <li>Avoid water logging if it rains heavy.</li> <li>Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre water.</li> </ul>
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative	Red hairy	<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> <li>For control of red hairy caterpillars, apply any contact insecticide after</li> </ul>
Millet	Sowing	caterpillars	rains.  - Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Stage Planting	Pest and disease Lichen incidence	Agro-meteorological advisories  - If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>





## "Gramin Krishi Mausam Seva"

				In newly established orchard, intercropping with cabbage/ cauliflower/ radish/ carrot or spinach may be followed.	
Cucurbits	Fruiting to harvesting	_	Powdery mil	<ul> <li>Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.</li> <li>If there is infestation of Powdery mildew in large scale, first harvest mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.</li> </ul>	
Colocasia	Corm formation	on		<ul> <li>Weeding and earthing up of the soil at the base of the plant may be done after rains to enhance corm development. Drain out excess water.</li> <li>Spray D-M 45 @ 2g/lit of water to protect from leaf spot.</li> </ul>	
Animal Sciences					
Name of bird/ animal	Stage	Diseas	se/ Managemen	nt Agro-meteorological advisories	
Poultry (Chicken/ Duck)	All susceptible	Endopar		- De-worm using Piperazine citrate Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.	
	age groups	Coccidio		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.	
		coli baci		Add sanitizer in drinking water and avoid muddy water for drinking purpose.	
Pig	Above 3		al infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
	months of age	infection			
		Manager		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.	
	months of age	Endoparasite/ Ectoparasite		- Inject Parid @ 1 ml/ 50 kg body weight.	
		Management		<ul> <li>- Provide wholesome water. Protection from high temp may be ensured.</li> <li>- Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>- Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>	
Goat	All age groups except three	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
	months or below	Endoparasite/ Ectoparasite		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
	Manager		ment	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.	
Fishery:					
	eed production	Pond and	d Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval	
		Feed Fish		Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits  Select fully matured male and female brood fish for induced breeding	
Uataharr	1 Han only		os (if hono has		
Hatchery Unit	<ol> <li>Use only clean hapas (if hapa breeding is done) and incubators</li> <li>Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity)</li> </ol>				
	3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.				



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



#### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Churachandpur

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

Weather forecast for Churachandpur (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 29-30 °C & mini. temp. 25-26 °C. Relative humidity may reach upto 99 % (max) & 88 % (min). The average wind speed may be 4-5 km/hr.

Date of issue: 9th July, 2019

- 1. Harvest rain water wherever possible to cope up water shortage problems after rains.
- 2. Monitor insect pest infestation in the crop field.
- 3. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.

Field Crops	a in drinking water for	on as and annuals. A	void leakage of rain water in sneds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cmTreat seeds with Carbendazim @ 2g/kg seeds.
		Thrips  Bacterial Leaf	- Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.  - After rains, spray Streptocycline @ 3g/ litre water against Bacterial
	Direct seeding with drum seeder	Blight	Leaf Blight.  - Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	<ul> <li>Avoid water logging if it rains heavy.</li> <li>Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre water.</li> </ul>
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative	Red hairy	<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> <li>For control of red hairy caterpillars, apply any contact insecticide after</li> </ul>
Millet	Sowing	caterpillars	rains.  - Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Stage Planting	Pest and disease Lichen incidence	Agro-meteorological advisories  - If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>





## "Gramin Krishi Mausam Seva"

				In newly established orchard, intercropping with cabbage/ cauliflower/ radish/ carrot or spinach may be followed.	
Cucurbits	Fruiting to harvesting		Powdery mile	mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.	
Colocasia	Corm formation	on		<ul> <li>Weeding and earthing up of the soil at the base of the plant may be done after rains to enhance corm development. Drain out excess water.</li> <li>Spray D-M 45 @ 2g/lit of water to protect from leaf spot.</li> </ul>	
Animal Sciences					
Name of bird/ animal	Stage	Disea	se/ Management	Agro-meteorological advisories	
Poultry (Chicken/ Duck)	All susceptible	Endopa		<ul><li>- De-worm using Piperazine citrate.</li><li>- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.</li></ul>	
	age groups	Coccidi		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/lit of water.	
		coli bac		Add sanitizer in drinking water and avoid muddy water for drinking purpose.	
Pig	Above 3		al infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
	months of age	Endo/ Ecto parasite infection			
		Manage		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.	
	months of age	Endoparasite/ Ectoparasite		- Inject Parid @ 1 ml/ 50 kg body weight.	
		Management		<ul> <li>Provide wholesome water. Protection from high temp may be ensured.</li> <li>Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>	
Goat	All age groups except three	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
	months or below	Endopar Ectopar	asite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
			ment	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.	
Fishery:					
	eed production	Pond an	d Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval	
		Feed Fish		Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits	
Hatcher	1 171		og (if here b	Select fully matured male and female brood fish for induced breeding	
Hatchery Unit	<ol> <li>Use only clean hapas (if hapa breeding is done) and incubators</li> <li>Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity)</li> </ol>				
	3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.				



"Gramin Krishi Mausam Seva"



#### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Imphal East

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

Weather forecast for Imphal East (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 29-30 °C & mini. temp. 25-26 °C. Relative humidity may reach upto 97 % (max) & 87 % (min). The average wind speed may be 4-5 km/hr.

Date of issue: 9th July, 2019

# General Advisory:

1. Harvest rain water wherever possible to cope up water shortage problems after rains.

Phone: 2414654, 2414260, 2414749; Fax: (0385) 2414654, 2414749

- 2. Monitor insect pest infestation in the crop field.
- 3. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.

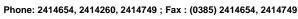
Field Crops			void leakage of rain water in sneds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cmTreat seeds with Carbendazim @ 2g/kg seeds.
		Thrips  Bacterial Leaf	<ul> <li>Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.</li> <li>After rains, spray Streptocycline @ 3g/ litre water against Bacterial</li> </ul>
		Blight	Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	<ul><li>Avoid water logging if it rains heavy.</li><li>Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre</li></ul>
		Tan Zanny Worm	water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		Red hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide after rains.
Millet	Sowing		- Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>





## "Gramin Krishi Mausam Seva"

				In newly established orchard, intercropping with cabbage/ cauliflower/ radish/ carrot or spinach may be followed.	
Cucurbits	Fruiting to harvesting	Powdery n	nildew	<ul> <li>Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.</li> <li>If there is infestation of Powdery mildew in large scale, first harvest mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.</li> </ul>	
Colocasia	Corm formation	on		<ul> <li>Weeding and earthing up of the soil at the base of the plant may be done after rains to enhance corm development. Drain out excess water.</li> <li>Spray D-M 45 @ 2g/lit of water to protect from leaf spot.</li> </ul>	
Animal Sciences					
Name of bird/ anim	nal Stage	Disease/ Manageme	ent	Agro-meteorological advisories	
Poultry (Chicken Duck)	susceptible	Endoparasites		- De-worm using Piperazine citrate Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.	
	age groups	Coccidiosis  coli bacillosis		<ul> <li>As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.</li> <li>Add sanitizer in drinking water and avoid muddy water for drinking</li> </ul>	
		con bacinosis		purpose.	
Pig	Above 3	Coccidial infection		- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
J	months of age	Endo/ Ecto parasite or skin infection		- Inject Neomac @ 1 ml/ 10 kg body weight.	
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.	
	months of age	Endoparasite/ Ectoparasite		- Inject Parid @ 1 ml/ 50 kg body weight.	
		Management		<ul> <li>- Provide wholesome water. Protection from high temp may be ensured.</li> <li>- Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>- Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>	
Goat	All age groups except three	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
	months or below	Endoparasite/ Ectoparasite		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
	Manaş			- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.	
Fishery:					
Carp culture	Seed production	Pond and Water		Vater depth should be maintained at 2.0 m Apply lime 30 Kg/ha every 30 days interval	
		Feed	split		
		Fish		ect fully matured male and female brood fish for induced breeding	
Hatchery Unit	2. Put only r 1275 litre	clean hapas (if hapa breeding is done) and incubators recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and e of water capacity)			
	3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.				



E-mail: agromet\_mnp@yahoo.co.uk



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





#### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Imphal West

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

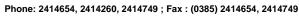
# Weather forecast for Imphal West (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 29-30 °C & mini. temp. 25-26 °C. Relative humidity may reach upto 100 % (max) & 98 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 9th July, 2019

- 1. Harvest rain water wherever possible to cope up water shortage problems after rains.
- 2. Monitor insect pest infestation in the crop field.
- 3. Proper drainage systems may be made in and around the crop fields and near the sheds of birds and animals to avoid water logging.
- 4. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.
- 5. Avoid draining of muddy water in culture ponds, also liming may be done @ 300kg/ha to improve water quality in ponds. Raise the level of ridges around the fish ponds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative		- Avoid water logging if it rains heavy.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		<ul> <li>- Avoid water logging if it rains heavy.</li> <li>- Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>- Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> <li>- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha or</li> </ul>
			spray Dichlorovos 7.6 EC 0.05% (0.6ml/ lit of water) after rains.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>- After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>- Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>- Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> <li>In newly established orchard, intercropping with cabbage/ cauliflower/ radish/ carrot or spinach may be followed.</li> </ul>



1275 litre of water capacity)

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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



Cucurbits

Fruiting to harvesting

Powdery mildew

- Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.

Powdery mildew

- If there is infestation of Powdery mildew in large scale, first harvest mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.

Colocasia

Corm formation

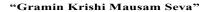
- Weeding and earthing up of the soil at the base of the plant may be

			mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.		
Colocasia	Corm formation	on	<ul> <li>- Weeding and earthing up of the soil at the base of the plant may be done after rains to enhance corm development. Drain out excess water.</li> <li>- Spray D-M 45 @ 2g/lit of water to protect from leaf spot.</li> </ul>		
Animal Sciences					
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken/ Duck)	All susceptible	Endoparasites	<ul><li>De-worm using Piperazine citrate.</li><li>Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.</li></ul>		
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/lit of water.		
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.		
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or skin infection			
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.		
Cattle	Above 3	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.		
	months of age	Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.		
		Management	<ul> <li>- Provide wholesome water. Protection from high temp may be ensured.</li> <li>- Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>- Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>		
Goat	All age groups except three	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.		
	months or below	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.		
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.		
Fishery:					
Carp culture   Se	ed production		1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval		
		Feed 1	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits		
		Fish S	Select fully matured male and female brood fish for induced breeding		
Hatchery Unit			ding is done) and incubators in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
	2. I at only recommended no. of eggs in the matering pools (1.0-1.2 millions of eggs/1.4 diameter, 0.76 m height and				

Supply only good water quality having optimum dissolved oxygen and PH level for hatching.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





# **MANIPUR AGROMET ADVISORY BULLETIN**

District: Senapati

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

# Weather forecast for Senapati (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 27-28  $^{\circ}$ C & mini. temp. 23-24  $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 93 % (min). The average wind speed may be 5-6 km/hr.

Date of issue: 9th July, 2019

- 1. Harvest rain water wherever possible to cope up water shortage problems after rains.
- 2. Monitor insect pest infestation in the crop field.
- 3. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.

Field Crops	a in Grinking water for	on as and annuals. A	void leakage of rain water in sneds.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cmTreat seeds with Carbendazim @ 2g/kg seeds.
		Thrips  Bacterial Leaf	<ul> <li>Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.</li> <li>After rains, spray Streptocycline @ 3g/ litre water against Bacterial</li> </ul>
	Direct seeding with drum seeder	Blight	Leaf Blight.  - Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated
			seeds.
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	<ul> <li>- Avoid water logging if it rains heavy.</li> <li>- Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre water.</li> </ul>
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		Red hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide after rains.
Millet	Sowing		- Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>





## "Gramin Krishi Mausam Seva"

				In newly established orchard, intercropping with cabbage/ cauliflower/ radish/ carrot or spinach may be followed.	
Cucurbits	Fruiting to harvesting	Powdery m	ildew	<ul> <li>Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.</li> <li>If there is infestation of Powdery mildew in large scale, first harvest mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.</li> </ul>	
Colocasia	Corm formation	on		<ul> <li>Weeding and earthing up of the soil at the base of the plant may be done after rains to enhance corm development. Drain out excess water.</li> <li>Spray D-M 45 @ 2g/lit of water to protect from leaf spot.</li> </ul>	
Animal Sciences					
Name of bird/ anim	nal Stage	Disease/ Manageme	ent	Agro-meteorological advisories	
Poultry (Chicken Duck)	susceptible	Endoparasites		- De-worm using Piperazine citrate Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.	
	age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.	
		coli bacillosis		Add sanitizer in drinking water and avoid muddy water for drinking purpose.	
Pig	Above 3 months of age	Coccidial infection Endo/ Ecto parasite or skin infection		<ul> <li>Ofloxacine/ Ornidazole (O<sub>2</sub>) tab twice daily for 5 days.</li> <li>Inject Neomac @ 1 ml/ 10 kg body weight.</li> </ul>	
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.	
	months of age	Endoparasite/ Ectoparasite		- Inject Parid @ 1 ml/ 50 kg body weight.	
		Management		<ul> <li>- Provide wholesome water. Protection from high temp may be ensured.</li> <li>- Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>- Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>	
Goat	All age groups except three	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
	months or below	Endoparasite/ Ectoparasite		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
	Mar			- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.	
Fishery:					
Carp culture	Seed production	Pond and Water		ater depth should be maintained at 2.0 m oply lime 30 Kg/ha every 30 days interval	
		Feed	Provi splits	ide Nutritionally well balanced feed @ 3.5% body weight per day in two	
		Fish		et fully matured male and female brood fish for induced breeding	
Hatchery Unit	2. Put only r 1275 litre	clean hapas (if hapa breeding is done) and incubators recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and e of water capacity)			
	3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.				



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Tamenglong

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

# Weather forecast for Tamenglong (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 27-28 °C & mini. temp. 23-24 °C. Relative humidity may reach upto 100 % (max) & 97 % (min). The average wind speed may be 4 km/hr.

Date of issue: 9th July, 2019

- 1. Harvest rain water wherever possible to cope up water shortage problems after rains.
- 2. Monitor insect pest infestation in the crop field.
- 3. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting	Thrips	<ul> <li>Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15<sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice.</li> <li>Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.</li> <li>Treat seeds with Carbendazim @ 2g/ kg seeds.</li> <li>Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @</li> </ul>
		Bacterial Leaf	1ml/ litre water against Thrips.  - After rains, spray Streptocycline @ 3g/ litre water against Bacterial
		Blight	Leaf Blight.
	Direct seeding with drum seeder		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative/ cob		- Avoid water logging if it rains heavy.
	initiation	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>
		Red hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide after rains.
Millet	Sowing		<ul> <li>Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing.</li> <li>Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.</li> </ul>
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Banana	Planting		<ul> <li>- After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>- Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>- Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>



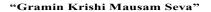


## "Gramin Krishi Mausam Seva"

					In newly established orchard, intercropping with cabbage/ cauliflower/ radish/ carrot or spinach may be followed.
Cucurbits	Fruiting to harvesting		Powdery mil	dew	<ul> <li>Support/ stack properly to avoid any loss due to contact of fruits with soil and to avoid overcrowding of leaves/ branches.</li> <li>If there is infestation of Powdery mildew in large scale, first harvest mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.</li> </ul>
Colocasia	Corm formation	on			<ul> <li>Weeding and earthing up of the soil at the base of the plant may be done after rains to enhance corm development. Drain out excess water.</li> <li>Spray D-M 45 @ 2g/lit of water to protect from leaf spot.</li> </ul>
Animal Sciences					
Name of bird/ anima	l Stage	Disea	se/ Managemen	t	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Endopar			<ul><li>De-worm using Piperazine citrate.</li><li>Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.</li></ul>
	age groups	Coccidio			- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
		coli baci			Add sanitizer in drinking water and avoid muddy water for drinking purpose.
Pig	Above 3		al infection		- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or skin infection			- Inject Neomac @ 1 ml/ 10 kg body weight.
		Manage			- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis			- De-worming with suitable Anthelmatics against Faciolasis.
	months of age	Endoparasite/ Ectoparasite			- Inject Parid @ 1 ml/ 50 kg body weight.
		Management			<ul> <li>- Provide wholesome water. Protection from high temp may be ensured.</li> <li>- Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>- Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>
Goat	All age groups except three	Fascioliosis			- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
	months or below	Ectopara	Endoparasite/ Ectoparasite		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
	Manage		ment		- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:					
	Seed production	Pond an	d Water		ater depth should be maintained at 2.0 m oply lime 30 Kg/ha every 30 days interval
		Feed Fish	Feed Prov split		ide Nutritionally well balanced feed @ 3.5% body weight per day in two
Hatchery	1 Use only		as (if hana hro		
Hatchery Unit	<ol> <li>Use only clean hapas (if hapa breeding is done) and incubators</li> <li>Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity)</li> </ol>				
	3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.				



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





#### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Thoubal

Past weather for the of Imphal West (5<sup>th</sup> to 8<sup>th</sup> July, 19):

**23.7 mm** rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.4-31.7 °C and minimum of 22.0-23.0 °C. Mean relative humidity of 88.8 % max & 72.0 % min was recorded in the past three days & average wind speed was 1.5-4.5 km/hr.

# Weather forecast for Thoubal (10<sup>th</sup> to 14<sup>th</sup> July, 2019):

Likely to have widespread light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 29-30  $^{\circ}$ C & mini. temp. 25-26  $^{\circ}$ C. Relative humidity may reach upto 98 % (max) & 82 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 9th July, 2019

- 1. Harvest rain water wherever possible to cope up water shortage problems after rains.
- 2. Monitor insect pest infestation in the crop field.
- 3. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sheds.

5. Add sanitizer in drinking water for birds and animals. Avoid leakage of rain water in sneds.  Field Crops						
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories			
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cmTreat seeds with Carbendazim @ 2g/kg seeds.			
		Thrips  Bacterial Leaf	<ul> <li>Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.</li> <li>After rains, spray Streptocycline @ 3g/ litre water against Bacterial</li> </ul>			
	Direct seeding with drum seeder	Blight	Leaf Blight.  - Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated			
			seeds.			
Kharif maize	Vegetative/ cob initiation	Fall Army Worm	<ul> <li>- Avoid water logging if it rains heavy.</li> <li>- Apply Emamectin benzoate@ 4g/litre water or Spinosad@ 3ml/ litre water.</li> </ul>			
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		<ul> <li>Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Avoid water logging during rainy days.</li> <li>Second hand weeding may be done after rains nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.</li> <li>Avoid earthing up after 40 days of sowing in <i>groundnut</i>.</li> </ul>			
		Red hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide after rains.			
Millet	Sowing		- Treat seeds with Carbendazim @ @ 2g/ kg seeds before sowing Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.			
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.			
Horticulture Crops						
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories			
Orange/Lime/ Lemon/Papaya/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.			
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.			
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.			
Banana	Planting		<ul> <li>After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and 1.8m x 2.4m for dwarf varieties.</li> <li>Pit size: 2x2x2 feet. Fill up the pit with soil &amp; FYM in the ratio 3:2.</li> <li>Plant one sucker (with broad base &amp; narrow leaves) per pit.</li> </ul>			





## "Gramin Krishi Mausam Seva"

				In newly established orchard, intercropping with cabbage/ cauliflower/ radish/ carrot or spinach may be followed.	
<b>Cucurbits</b> Fruiting to				- Support/ stack properly to avoid any loss due to contact of fruits with	
	harvesting	-		soil and to avoid overcrowding of leaves/ branches.	
			Powdery milde		
	G C	C C		mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.	
Colocasia	Corm formation	Corm formation		- Weeding and earthing up of the soil at the base of the plant may be	
				done after rains to enhance corm development. Drain out excess water Spray D-M 45 @ 2g/lit of water to protect from leaf spot.	
Animal Sciences				- Spray D-M 43 @ 2g/m of water to protect from lear spot.	
Name of bird/ animal	Stage	Disea	se/ Management	Agro-meteorological advisories	
Poultry (Chicken/ All		Endoparasites		- De-worm using Piperazine citrate.	
Duck)	susceptible	Litaoparasites		- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.	
	age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit	
				of water.	
		coli bacillosis		Add sanitizer in drinking water and avoid muddy water for drinking	
				purpose.	
Pig	Above 3	Coccidial infection		- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.	
~	months of age	Endo/ Ed infection	cto parasite or skir	- Inject Neomac @ 1 ml/ 10 kg body weight.	
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide	
	A1 2	Б 1	•	ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3 months of age	Faciolas		- De-worming with suitable Anthelmatics against Faciolasis.	
		Endopar		- Inject Parid @ 1 ml/ 50 kg body weight.	
	uge	Ectoparasite  Management		<ul> <li>- Provide wholesome water. Protection from high temp may be ensured.</li> <li>- Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.</li> <li>- Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>	
Goat	All age groups except three	Fascioli	osis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
	months or below	Endopar Ectopar		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.	
		Manage	ment	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.	
Fishery:					
	eed production	Pond an		.Water depth should be maintained at 2.0 m	
		Feed	F	2. Apply lime 30 Kg/ha every 30 days interval Provide Nutritionally well balanced feed @ 3.5% body weight per day in two plits	
Hotohow-	Fish  1 Use only clean hone			Select fully matured male and female brood fish for induced breeding	
Hatchery Unit	<ol> <li>Use only clean hapas (if hapa breeding is done) and incubators</li> <li>Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity)</li> </ol>				
3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.					