



"Gramin Krishi Mausam Seva"

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

District: Imphal West

Past weather for the of Imphal West (9<sup>th</sup> to 11<sup>th</sup> July, 19):

**38.8 mm** rainfall was observed during the past three days. The skies remained overcast. Maximum temperature ranged from 25.5 – 28.6 °C and minimum of 22.3 – 23.6 °C. Mean relative humidity of 94 % max & 86.0 % min was recorded in the past three days & average wind speed was 1.1-1.9 km/hr.

### Weather forecast for Imphal West (13<sup>th</sup> to 17<sup>th</sup> July, 2019):

Likely to have fairly widespread moderate to heavy rains upto Sunday then light rains thereafter. The sky will remain mainly cloudy to overcast with max. temp. 26-29 °C & mini. temp. 22-23 °C. Relative humidity may reach upto 100 % (max) & 96 % (min). The average wind speed may be 2-4 km/hr.

Date of issue: 12th 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.

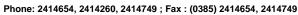
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting	Thrips  Bacterial Leaf	<ul> <li>Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15<sup>th</sup> July (plot size: 4 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 @ 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	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		- 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

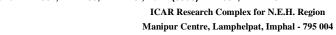


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				RAR
				Imidachloprid @ 5 ml/10 lit water.
Banana	Planting			- After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and
				1.8m x 2.4m for dwarf varieties.
				- Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2.
				- Plant one sucker (with broad base & narrow leaves) per pit.
				In newly established orchard, intercropping with cabbage/ cauliflower/
				radish/ carrot or spinach may be followed.
Cucurbits	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 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	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	1 0	73.6		
Name of bird/ anim	8	Disease/ Manageme		Agro-meteorological advisories
Poultry (Chicken		Endoparasites		- De-worm using Piperazine citrate.
Duck)	susceptible	G		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
Total Control of the	41 2	G 11 1 1 6 1		purpose.
Pig	Above 3	Coccidial infection		- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of	Endo/ Ecto parasite or skin infection  Management		- Inject Neomac @ 1 ml/ 10 kg body weight.
	age			- Treat drinking water with potassium permanganate/ sanitizer. Provide
		1viunugement		ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of	Endoparasite/		- Inject Parid @ 1 ml/ 50 kg body weight.
	age	Ectoparasite		Janes and the Grand and Grand
		Management		- 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	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
	except three			vitamins like Livozyme @ 50ml twice daily.
	months or below	Endoparasite/		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight
	below	Ectoparasite		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		ter depth should be maintained at 2.0 m
				ply lime 30 Kg/ha every 30 days interval
		Feed		de Nutritionally well balanced feed @ 3.5% body weight per day in two
			splits	
		Fish		t fully matured male and female brood fish for induced breeding
Hatchery				s done) and incubators
Unit  2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of egg 1275 litre of water capacity)			e hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and	
	3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.			







### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Senapati

Past weather for the of Imphal West (9<sup>th</sup> to 11<sup>th</sup> July, 19):

**38.8 mm** rainfall was observed during the past three days. The skies remained overcast. Maximum temperature ranged from 25.5 – 28.6 °C and minimum of 22.3 – 23.6 °C. Mean relative humidity of 94 % max & 86.0 % min was recorded in the past three days & average wind speed was 1.1-1.9 km/hr.

# Weather forecast for Senapati (13<sup>th</sup> to 17<sup>th</sup> July, 2019):

Likely to have fairly widespread moderate to heavy rains upto Sunday then light rains thereafter. The sky will remain mainly cloudy to overcast with max. temp. 26-27  $^{\circ}$ C & mini. temp. 22-23  $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 97 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 12th July, 2019

#### General Advisory:

- 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.

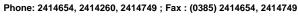
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting	Thrips	- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice.  - Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.  -Treat seeds with Carbendazim @ 2g/kg seeds.  - Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @
		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 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 groundnut.</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



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				RAR
				Imidachloprid @ 5 ml/10 lit water.
Banana	Planting			- After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and
				1.8m x 2.4m for dwarf varieties.
				- Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2.
				- Plant one sucker (with broad base & narrow leaves) per pit.
				In newly established orchard, intercropping with cabbage/ cauliflower/
				radish/ carrot or spinach may be followed.
Cucurbits	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 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	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.
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Animal Sciences	1 0	73.6		
Name of bird/ anim	8	Disease/ Manageme		Agro-meteorological advisories
Poultry (Chicken		Endoparasites		- De-worm using Piperazine citrate.
Duck)	susceptible	G 111 1		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
Total Control of the	41 2	G 11 1 1 6 1		purpose.
Pig	Above 3	Coccidial infection		- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of	Endo/ Ecto parasite or skin infection  Management		- Inject Neomac @ 1 ml/ 10 kg body weight.
	age			- Treat drinking water with potassium permanganate/ sanitizer. Provide
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		Management		- 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
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Goat	All age groups	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
	except three			vitamins like Livozyme @ 50ml twice daily.
	months or below	Endoparasite/		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight
	below	Ectoparasite		accompanied with Livozyme @ 50ml daily.
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Hatchery				s done) and incubators
Unit  2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of egg 1275 litre of water capacity)			e hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and	
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Tamenglong

Past weather for the of Imphal West (9<sup>th</sup> to 11<sup>th</sup> July, 19):

**38.8 mm** rainfall was observed during the past three days. The skies remained overcast. Maximum temperature ranged from 25.5 – 28.6  $^{\circ}$ C and minimum of 22.3 – 23.6  $^{\circ}$ C. Mean relative humidity of 94 % max & 86.0 % min was recorded in the past three days & average wind speed was 1.1-1.9 km/hr.

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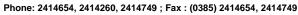
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		Thrips	- Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- After rains, spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
	Direct seeding with drum seeder		- 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.
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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>
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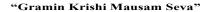


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Fishery:				
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#### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Thoubal

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**38.8 mm** rainfall was observed during the past three days. The skies remained overcast. Maximum temperature ranged from 25.5 – 28.6  $^{\circ}$ C and minimum of 22.3 – 23.6  $^{\circ}$ C. Mean relative humidity of 94 % max & 86.0 % min was recorded in the past three days & average wind speed was 1.1-1.9 km/hr.

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Likely to have fairly widespread moderate to heavy rains upto Sunday then light rains thereafter. The sky will remain mainly cloudy to overcast with max. temp. 26-29 °C & mini. temp. 22-23 °C. Relative humidity may reach upto 98 % (max) & 94 % (min). The average wind speed may be 2-4 km/hr.

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- 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.

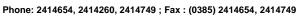
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting	Thrips  Bacterial Leaf Blight	- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 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 20x10cm.  -Treat seeds with Carbendazim @ 2g/ kg seeds.  - Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.  - 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 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



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				RAR
				Imidachloprid @ 5 ml/10 lit water.
Banana	Planting			- After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and
				1.8m x 2.4m for dwarf varieties.
				- Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2.
				- Plant one sucker (with broad base & narrow leaves) per pit.
				In newly established orchard, intercropping with cabbage/ cauliflower/
				radish/ carrot or spinach may be followed.
Cucurbits	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 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	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	1 0	73.6		
Name of bird/ anim	8	Disease/ Manageme		Agro-meteorological advisories
Poultry (Chicken		Endoparasites		- De-worm using Piperazine citrate.
Duck)	susceptible	G		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
Total Control of the	41 2	G 11 1 1 6 1		purpose.
Pig	Above 3	Coccidial infection		- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of	Endo/ Ecto parasite or skin infection  Management		- Inject Neomac @ 1 ml/ 10 kg body weight.
	age			- Treat drinking water with potassium permanganate/ sanitizer. Provide
		1viunugement		ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of	Endoparasite/		- Inject Parid @ 1 ml/ 50 kg body weight.
	age	Ectoparasite		Janes and the Grand and Grand
		Management		- 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	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
	except three			vitamins like Livozyme @ 50ml twice daily.
	months or below	Endoparasite/		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight
	below	Ectoparasite		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		ter depth should be maintained at 2.0 m
				ply lime 30 Kg/ha every 30 days interval
		Feed		de Nutritionally well balanced feed @ 3.5% body weight per day in two
			splits	
		Fish		t fully matured male and female brood fish for induced breeding
Hatchery				s done) and incubators
Unit  2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of egg 1275 litre of water capacity)			e hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and	
	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: Ukhrul

Past weather for the of Imphal West (9<sup>th</sup> to 11<sup>th</sup> July, 19):

**38.8 mm** rainfall was observed during the past three days. The skies remained overcast. Maximum temperature ranged from 25.5 – 28.6  $^{\circ}$ C and minimum of 22.3 – 23.6  $^{\circ}$ C. Mean relative humidity of 94 % max & 86.0 % min was recorded in the past three days & average wind speed was 1.1-1.9 km/hr.

# Weather forecast for Ukhrul (13<sup>th</sup> to 17<sup>th</sup> July, 2019):

Likely to have fairly widespread moderate to heavy rains upto Sunday then light rains thereafter. The sky will remain mainly cloudy to overcast with max. temp. 26-29  $^{\circ}$ C & mini. temp. 22-23  $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 96 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 12th 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.

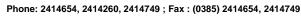
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice.  - Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.  -Treat 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	g ·	- 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> </ul>
		Red hairy caterpillars	<ul> <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 rains.</li> </ul>
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



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				RAR
				Imidachloprid @ 5 ml/10 lit water.
Banana	Planting			- After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and
				1.8m x 2.4m for dwarf varieties.
				- Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2.
				- Plant one sucker (with broad base & narrow leaves) per pit.
				In newly established orchard, intercropping with cabbage/ cauliflower/
				radish/ carrot or spinach may be followed.
Cucurbits	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 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	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	1 0	73.6		
Name of bird/ anim	8	Disease/ Manageme		Agro-meteorological advisories
Poultry (Chicken		Endoparasites		- De-worm using Piperazine citrate.
Duck)	susceptible	G		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
Total Control of the	41 2	G 11 1 1 6 1		purpose.
Pig	Above 3	Coccidial infection		- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of	Endo/ Ecto parasite or skin infection  Management		- Inject Neomac @ 1 ml/ 10 kg body weight.
	age			- Treat drinking water with potassium permanganate/ sanitizer. Provide
		1viunugement		ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of	Endoparasite/		- Inject Parid @ 1 ml/ 50 kg body weight.
	age	Ectoparasite		Janes and the Grand and Grand
		Management		- 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	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
	except three			vitamins like Livozyme @ 50ml twice daily.
	months or below	Endoparasite/		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight
	below	Ectoparasite		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		ter depth should be maintained at 2.0 m
				ply lime 30 Kg/ha every 30 days interval
		Feed		de Nutritionally well balanced feed @ 3.5% body weight per day in two
			splits	
		Fish		t fully matured male and female brood fish for induced breeding
Hatchery				s done) and incubators
Unit  2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of egg 1275 litre of water capacity)			e hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and	
	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: Bishnupur

Past weather for the of Imphal West (9<sup>th</sup> to 11<sup>th</sup> July, 19):

**38.8 mm** rainfall was observed during the past three days. The skies remained overcast. Maximum temperature ranged from 25.5 – 28.6  $^{\circ}$ C and minimum of 22.3 – 23.6  $^{\circ}$ C. Mean relative humidity of 94 % max & 86.0 % min was recorded in the past three days & average wind speed was 1.1-1.9 km/hr.

# Weather forecast for Bishnupur (13<sup>th</sup> to 17<sup>th</sup> July, 2019):

Likely to have fairly widespread moderate to heavy rains upto Sunday then light rains thereafter. The sky will remain mainly cloudy to overcast with max. temp. 26-29  $^{\circ}$ C & mini. temp. 22-23  $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 94 % (min). The average wind speed may be 2-4 km/hr.

Date of issue: 12th 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	Thrips  Bacterial Leaf Blight	- 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 20x10cm.  -Treat seeds with Carbendazim @ 2g/ kg seeds.  - Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.  - 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 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



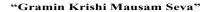
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				RAR
				Imidachloprid @ 5 ml/10 lit water.
Banana	Planting			- After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and
				1.8m x 2.4m for dwarf varieties.
				- Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2.
				- Plant one sucker (with broad base & narrow leaves) per pit.
				In newly established orchard, intercropping with cabbage/ cauliflower/
				radish/ carrot or spinach may be followed.
Cucurbits	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 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	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	1 0	73.6		
Name of bird/ anim	8	Disease/ Manageme		Agro-meteorological advisories
Poultry (Chicken		Endoparasites		- De-worm using Piperazine citrate.
Duck)	susceptible	G 111 1		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.
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Total Control of the	41 2	G 11 1 1 6 1		purpose.
Pig	Above 3	Coccidial infection		- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of	Endo/ Ecto parasite or skin infection  Management		- Inject Neomac @ 1 ml/ 10 kg body weight.
	age			- Treat drinking water with potassium permanganate/ sanitizer. Provide
		1viunugement		ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Faciolasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of	Endoparasite/		- Inject Parid @ 1 ml/ 50 kg body weight.
	age	Ectoparasite		Janes and the Grand and Grand
		Management		- 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	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
	except three			vitamins like Livozyme @ 50ml twice daily.
	months or below	Endoparasite/		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight
	below	Ectoparasite		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
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Fishery:				
Carp culture	Seed production	Pond and Water		ter depth should be maintained at 2.0 m
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		Feed		de Nutritionally well balanced feed @ 3.5% body weight per day in two
			splits	
		Fish		t fully matured male and female brood fish for induced breeding
Hatchery				s done) and incubators
Unit  2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of egg 1275 litre of water capacity)			e hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and	
	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: Chandel

Past weather for the of Imphal West (9th to 11th July, 19):

**38.8 mm** rainfall was observed during the past three days. The skies remained overcast. Maximum temperature ranged from 25.5 – 28.6 °C and minimum of 22.3 – 23.6 °C. Mean relative humidity of 94 % max & 86.0 % min was recorded in the past three days & average wind speed was 1.1-1.9 km/hr.

# Weather forecast for Chandel (13<sup>th</sup> to 17<sup>th</sup> July, 2019):

Likely to have fairly widespread moderate to heavy rains upto Sunday then light rains thereafter. The sky will remain mainly cloudy to overcast with max. temp. 26-29  $^{\circ}$ C & mini. temp. 22-23  $^{\circ}$ C. Relative humidity may reach upto 98 % (max) & 92 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 12th July, 2019

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- 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.

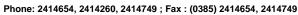
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting	Thrips	- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 4 x 20 ft for transplanting in a sangam). Choose medium or late variety of rice.  - Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.  -Treat seeds with Carbendazim @ 2g/kg seeds.  - Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @
		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 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 groundnut.</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

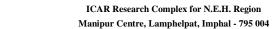


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			A.AR		
			Imidachloprid @ 5 ml/10 lit water.		
Banana	Planting		- After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and		
			1.8m x 2.4m for dwarf varieties.		
			- Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2.		
			- Plant one sucker (with broad base & narrow leaves) per pit.		
			In newly established orchard, intercropping with cabbage/ cauliflower/		
			radish/ carrot or spinach may be followed.		
Cucurbits	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 mi			
			mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.		
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	1 0	73.6			
Name of bird/ anin	8	Disease/ Managemen			
Poultry (Chicker		Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible	a	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.		
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit		
		11.1 111 1	of water.		
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking		
Total Control of the	41 2	G : 11: 1 : 6 ::	purpose.		
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
	months of	Endo/ Ecto parasite or s infection	- Inject Neomac @ 1 ml/ 10 kg body weight.		
	age	Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide		
		Wanagement	ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.		
Cattle	Cattle Above 3		- De-worming with suitable Anthelmatics against Faciolasis.		
	months of	Faciolasis Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite	January and Brandy and		
		Management	- 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	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
	except three		vitamins like Livozyme @ 50ml twice daily.		
	months or below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
	below	Ectoparasite	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	1.Water depth should be maintained at 2.0 m		
			2. Apply lime 30 Kg/ha every 30 days interval		
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
			splits		
		Fish	Select fully matured male and female brood fish for induced breeding		
Hatchery			eeding is done) and incubators		
Unit		2. 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)			
	3. Supply on	ily good water quality l	naving optimum dissolved oxygen and PH level for hatching.		





"Gramin Krishi Mausam Seva"





### **MANIPUR AGROMET ADVISORY BULLETIN**

District: Churachandpur

Past weather for the of Imphal West (9<sup>th</sup> to 11<sup>th</sup> July, 19):

**38.8 mm** rainfall was observed during the past three days. The skies remained overcast. Maximum temperature ranged from 25.5 – 28.6  $^{\circ}$ C and minimum of 22.3 – 23.6  $^{\circ}$ C. Mean relative humidity of 94 % max & 86.0 % min was recorded in the past three days & average wind speed was 1.1-1.9 km/hr.

# Weather forecast for Churachandpur (13<sup>th</sup> to 17<sup>th</sup> July, 2019):

Likely to have fairly widespread moderate to heavy rains upto Sunday then light rains thereafter. The sky will remain mainly cloudy to overcast with max. temp. 26-29 °C & mini. temp. 22-23 °C. Relative humidity may reach upto 99 % (max) & 95 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 12th 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.

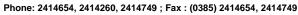
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting	Thrips  Bacterial Leaf Blight	- Community nursery or Dapog nursery or Dry nursery beds may be prepared for raising nursery upto 15 <sup>th</sup> July (plot size: 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 20x10cm.  -Treat seeds with Carbendazim @ 2g/ kg seeds.  - Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.  - 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/	Sowing to		- Sowing may be done in upland fields. Treat seeds with Carbendazim @
Blackgram/ Rice Bean	Vegetative		<ul> <li>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



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			A.AR		
			Imidachloprid @ 5 ml/10 lit water.		
Banana	Planting		- After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and		
			1.8m x 2.4m for dwarf varieties.		
			- Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2.		
			- Plant one sucker (with broad base & narrow leaves) per pit.		
			In newly established orchard, intercropping with cabbage/ cauliflower/		
			radish/ carrot or spinach may be followed.		
Cucurbits	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 mi			
			mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.		
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	1 0	73.6			
Name of bird/ anin	8	Disease/ Managemen			
Poultry (Chicker		Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible	a	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.		
	age groups	Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit		
		11.1 111 1	of water.		
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking		
Total	41 2	G : 1: 1 : 6 ::	purpose.		
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.		
	months of	Endo/ Ecto parasite or s infection	- Inject Neomac @ 1 ml/ 10 kg body weight.		
	age	Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide		
		Wanagement	ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.		
Cattle	Cattle Above 3		- De-worming with suitable Anthelmatics against Faciolasis.		
	months of	Faciolasis Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite	January and Brandy and		
		Management	- 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	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
	except three		vitamins like Livozyme @ 50ml twice daily.		
	months or below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
	below	Ectoparasite	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	1.Water depth should be maintained at 2.0 m		
			2. Apply lime 30 Kg/ha every 30 days interval		
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
			splits		
		Fish	Select fully matured male and female brood fish for induced breeding		
Hatchery			eeding is done) and incubators		
Unit		2. 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)			
	3. Supply on	ily good water quality l	naving 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 East

Past weather for the of Imphal West (9<sup>th</sup> to 11<sup>th</sup> July, 19):

**38.8 mm** rainfall was observed during the past three days. The skies remained overcast. Maximum temperature ranged from 25.5 – 28.6  $^{\circ}$ C and minimum of 22.3 – 23.6  $^{\circ}$ C. Mean relative humidity of 94 % max & 86.0 % min was recorded in the past three days & average wind speed was 1.1-1.9 km/hr.

### Weather forecast for Imphal East (13<sup>th</sup> to 17<sup>th</sup> July, 2019):

Likely to have fairly widespread moderate to heavy rains upto Sunday then light rains thereafter. The sky will remain mainly cloudy to overcast with max. temp. 26-29  $^{\circ}$ C & mini. temp. 22-23  $^{\circ}$ C. Relative humidity may reach upto 98 % (max) & 90 % (min). The average wind speed may be 2-5 km/hr.

Date of issue: 12th 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	Thrips  Bacterial Leaf Blight	- 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 20x10cm.  -Treat seeds with Carbendazim @ 2g/ kg seeds.  - Use Blue Sticky Cards@ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.  - 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 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



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			A.AR		
			Imidachloprid @ 5 ml/10 lit water.		
Banana	Planting		- After rains, plant banana at a spacing of 2.7m x 3m for tall varieties and		
			1.8m x 2.4m for dwarf varieties.		
			- Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2.		
			- Plant one sucker (with broad base & narrow leaves) per pit.		
			In newly established orchard, intercropping with cabbage/ cauliflower/		
			radish/ carrot or spinach may be followed.		
Cucurbits	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 mi			
			mature fruits and spray Bayleton @ 7 gm/ lit of water after rains.		
Colocasia	Corm formation	on	- Weeding and earthing up of the soil at the base of the plant may be		
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Animal Sciences	1 0	73.6			
Name of bird/ anin	8	Disease/ Managemen			
Poultry (Chicker		Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible	a	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.		
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	months of	Endo/ Ecto parasite or s infection	- Inject Neomac @ 1 ml/ 10 kg body weight.		
	age	Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide		
		Wanagement	ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.		
Cattle	Cattle Above 3		- De-worming with suitable Anthelmatics against Faciolasis.		
	months of	Faciolasis Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite	January and Brandy and		
		Management	- 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	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
	except three		vitamins like Livozyme @ 50ml twice daily.		
	months or below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
	below	Ectoparasite	accompanied with Livozyme @ 50ml daily.		
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be		
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Unit		2. 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			
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