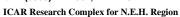
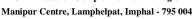
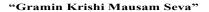


Phone: 2414654, 2414260, 2414749; Fax: (0385) 2414654, 2414749









MANIPUR AGROMET ADVISORY BULLETIN

District: Chandel

Past weather for the of Imphal West (19th to 22nd July, 19):

15.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 30.0-35.0 °C and minimum of 20.2-22.0 °C. Mean relative humidity of 85.7 % max & 56.0 % min was recorded in the past three days & average wind speed was 1.8 - 3.4 km/hr.

Weather forecast for Chandel (24th to 28th July, 2019):

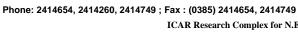
E-mail: agromet_mnp@yahoo.co.uk

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-30 °C & mini. temp. 23-24 °C. Relative humidity may reach upto 99 % (max) & 69 % (min). The average wind speed may be 3-4 km/hr.

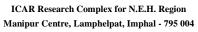
Date of issue: 23rd July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		 Choose medium or late variety of rice. Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- 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	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		 Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars. Avoid earthing up after 40 days of sowing in <i>groundnut</i>.
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
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/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Litchi/ Tree bean			- Prune the disease infected twigs and burn them outside the farm area.- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to transplanting		 For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation. Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric +	Rhizome formation		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
French Bean	in turmeric		- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.









"Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ anim	al Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken	/ All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- 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 ₂) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or sk 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	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		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 except three	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
	months or	Endamental	vitamins like Livozyme @ 50ml twice daily. Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
	below	Endoparasite/ Ectoparasite	accompanied with Livozyme @ 50ml daily.		
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be		
		Management	carried out strictly. Due care need to be taken to prevent spread of disease		
			caused by flies/ mosquitoes/ ticks, etc.		
Fishery:			caused by most most areas, etc.		
	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m		
Carp culture	seed production	rond and water	2. Apply lime 30 Kg/ha every 30 days interval		
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
		rccu	splits		
		Fish	Select fully matured male and female brood fish for induced breeding		
Hatchery	1. Use only		eding is done) and incubators		
Unit			s in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
		of water capacity)	5 m and materials provide (1.0 1.2 minimum of 0555) 111 diameter, 0.70 m neight und		
			aving optimum dissolved oxygen and PH level for hatching.		
5. Supply only good water quarty naving openium dissolved oxygen and 111 level for nateming.					





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





MANIPUR AGROMET ADVISORY BULLETIN

District: Churachandpur

Past weather for the of Imphal West (19th to 22nd July, 19):

15.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $30.0-35.0~^{\circ}\text{C}$ and minimum of $20.2-22.0~^{\circ}\text{C}$. Mean relative humidity of 85.7~% max & 56.0~% min was recorded in the past three days & average wind speed was 1.8-3.4~km/hr.

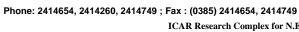
Weather forecast for Churachandpur (24th to 28th July, 2019):

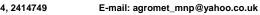
Date of issue: 23rd July, 2019

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-30 $^{\circ}$ C & mini. temp. 23-24 $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 74 % (min). The average wind speed may be 3-4 km/hr.

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field		- Choose medium or late variety of rice.
	preparation and		- Uproot the seedlings at 16-21 days after sowing. Transplant at a
	transplanting		spacing of 20x10cm.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @
		•	1ml/ litre water against Thrips.
		Bacterial Leaf	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Blight	
	Direct seeding with		- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and
	drum seeder		level it. Drain out water 24 hrs before sowing. Use just pre-germinated
			seeds.
Kharif maize	Vegetative/ cob	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre
	initiation		water.
Soybean/ Groundnut/	Sowing to		- Sowing may be done in upland fields. Treat seeds with Carbendazim @
Blackgram/ Rice Bean	Vegetative		2g/ kg seeds before sowing.
			- For crops in vegetative stage, second hand weeding may be done nearly
			at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.
			- Avoid earthing up after 40 days of sowing in <i>groundnut</i> .
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
Millet	Sowing	7 1	- 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		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
o o	Management		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/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with
Lemon/Papaya/			Bordeaux paste or Benlate.
Litchi/ Tree bean			- Prune the disease infected twigs and burn them outside the farm area.
			- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to		- For nursery raising of early cauliflower in 10-15cm high beds under
	transplanting		temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery
			bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early
			varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg
			DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose
			at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric +	Rhizome formation		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
French Bean	in turmeric		- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot
			disease.
Chilli	Fruiting to	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7
Ciliii			









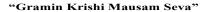
"Gramin Krishi Mausam Seva"

Animal Sciences						
Name of bird/ anima	Ü	Disease/ Management				
Poultry (Chicken/	All	Endoparasites	- De-worm using Piperazine citrate.			
Duck)	susceptible		- 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 ₂) tab twice daily for 5 days.			
	months of	Endo/ Ecto parasite or sk	in - Inject Neomac @ 1 ml/ 10 kg body weight.			
	age	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	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.			
	age	Ectoparasite				
		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			
	Delow	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	1. Use only		eding is done) and incubators			
Unit			s in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and			
		1275 litre of water capacity)				
			aving optimum dissolved oxygen and PH level for hatching.			
	- 2-FF-,, 6 dume, manag optimization on John and 111 10-11 101 materials.					





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 (19th to 22nd July, 19):

15.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $30.0-35.0~^{\circ}\text{C}$ and minimum of $20.2-22.0~^{\circ}\text{C}$. Mean relative humidity of 85.7~% max & 56.0~% min was recorded in the past three days & average wind speed was 1.8-3.4~km/hr.

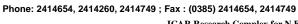
Weather forecast for Imphal East (24th to 28th July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-30 $^{\circ}$ C & mini. temp. 23-24 $^{\circ}$ C. Relative humidity may reach upto 98 % (max) & 62 % (min). The average wind speed may be 4-5 km/hr.

Date of issue: 23rd July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field		- Choose medium or late variety of rice.
	preparation and		- Uproot the seedlings at 16-21 days after sowing. Transplant at a
	transplanting		spacing of 20x10cm.
	1 0	Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @
		P *	1ml/ litre water against Thrips.
		Bacterial Leaf	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Blight	spray surprocycline C 3g/ nac water against Bacterial Beat Bright.
	Direct seeding with	Biight	- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and
	drum seeder		level it. Drain out water 24 hrs before sowing. Use just pre-germinated
	drum seeder		seeds.
Kharif maize	Vegetative/ cob	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre
Kilai ii iliaizc	initiation	Tan Army Worm	water.
Soybean/ Groundnut/			
Blackgram/ Rice Bean	Sowing to		- Sowing may be done in upland fields. Treat seeds with Carbendazim @
	Vegetative		2g/ kg seeds before sowing.
			- For crops in vegetative stage, second hand weeding may be done nearly
			at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.
			- Avoid earthing up after 40 days of sowing in <i>groundnut</i> .
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
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		- For seed purpose store the seeds in RC-Seed Bin after proper drying
	Management		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/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with
Lemon/Papaya/			Bordeaux paste or Benlate.
Litchi/ Tree bean			- Prune the disease infected twigs and burn them outside the farm area.
			- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to		- For nursery raising of early cauliflower in 10-15cm high beds under
	transplanting		temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery
			bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early
			varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg
			DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose
			at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric +	Rhizome formation		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
French Bean	in turmeric		- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot
1 Tolich Deali	(011110110		disease.
Chilli	Fruiting to	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7
Cilili	harvesting	Antinaciose	to 10 days interval twice or thrice depending upon the incidence.
	nai vesting		to 10 days merval twice of united depending upon the incluence.



Disease/ Management

E-mail: agromet_mnp@yahoo.co.uk

Agro-meteorological advisories



Name of bird/ animal

Stage

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



"Gramin Krishi Mausam Seva"

Poultry (Chicken Duck)		Endoparasites	- De-worm using Piperazine citrate.
Duck	susceptible age groups	Coccidiosis	 - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. - 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 ₂) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or sk infection	in - 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	 - 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	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	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
			Select fully matured male and female brood fish for induced breeding
Hatchery Unit	 Use only clean hapas (if hapa breeding is done) and incubators Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m heigh 1275 litre of water capacity) 		
	Supply or	nly good water quality ha	wing 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 (19th to 22nd July, 19):

15.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $30.0-35.0~^{\circ}\text{C}$ and minimum of $20.2-22.0~^{\circ}\text{C}$. Mean relative humidity of 85.7~% max & 56.0~% min was recorded in the past three days & average wind speed was 1.8-3.4~km/hr.

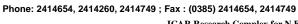
Weather forecast for Imphal West (24th to 28th July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-30 $^{\circ}$ C & mini. temp. 23-24 $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 65 % (min). The average wind speed may be 4-5 km/hr.

Date of issue: 23rd July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field		- Choose medium or late variety of rice.
	preparation and		- Uproot the seedlings at 16-21 days after sowing. Transplant at a
	transplanting		spacing of 20x10cm.
	1 0	Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @
		P *	1ml/ litre water against Thrips.
		Bacterial Leaf	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Blight	spray surprocycline C 3g/ nac water against Bacterial Beat Bright.
	Direct seeding with	Biight	- Treat seed with Humicil @ 5ml/ kg seed. Puddle the field properly and
	drum seeder		level it. Drain out water 24 hrs before sowing. Use just pre-germinated
	drum seeder		seeds.
Kharif maize	Vegetative/ cob	Fall Army Worm	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre
Kilai ii iliaizc	initiation	Tan Army Worm	water.
Soybean/ Groundnut/			
Blackgram/ Rice Bean	Sowing to		- Sowing may be done in upland fields. Treat seeds with Carbendazim @
	Vegetative		2g/ kg seeds before sowing.
			- For crops in vegetative stage, second hand weeding may be done nearly
			at 35 days after sowing to avoid leaf eating insects/hairy caterpillars.
			- Avoid earthing up after 40 days of sowing in <i>groundnut</i> .
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
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		- For seed purpose store the seeds in RC-Seed Bin after proper drying
	Management		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/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with
Lemon/Papaya/			Bordeaux paste or Benlate.
Litchi/ Tree bean			- Prune the disease infected twigs and burn them outside the farm area.
			- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to		- For nursery raising of early cauliflower in 10-15cm high beds under
	transplanting		temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery
			bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early
			varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg
			DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose
			at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric +	Rhizome formation		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
French Bean	in turmeric		- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot
1 Tolich Deali	(011110110		disease.
Chilli	Fruiting to	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7
Cilili	harvesting	Antinaciose	to 10 days interval twice or thrice depending upon the incidence.
	nai vesting		to 10 days merval twice of united depending upon the incluence.



Disease/ Management

E-mail: agromet_mnp@yahoo.co.uk

Agro-meteorological advisories



Name of bird/ animal

Stage

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



"Gramin Krishi Mausam Seva"

Poultry (Chicken Duck)		Endoparasites	- De-worm using Piperazine citrate.
Duck	susceptible age groups	Coccidiosis	 - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds. - 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 ₂) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or sk infection	in - 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	 - 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	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	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
			Select fully matured male and female brood fish for induced breeding
Hatchery Unit	 Use only clean hapas (if hapa breeding is done) and incubators Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m heigh 1275 litre of water capacity) 		
	Supply or	nly good water quality ha	wing 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: Senapati

Past weather for the of Imphal West (19th to 22nd July, 19):

15.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $30.0-35.0~^{\circ}\text{C}$ and minimum of $20.2-22.0~^{\circ}\text{C}$. Mean relative humidity of 85.7~% max & 56.0~% min was recorded in the past three days & average wind speed was 1.8-3.4~km/hr.

Weather forecast for Senapati (24th to 28th July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-30 $^{\circ}$ C & mini. temp. 23-24 $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 74 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 23rd July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		 Choose medium or late variety of rice. Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- 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	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		 Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars. Avoid earthing up after 40 days of sowing in <i>groundnut</i>.
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
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/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Litchi/ Tree bean			Prune the disease infected twigs and burn them outside the farm area.Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to transplanting		 For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation. Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.

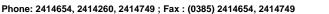


ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



"Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ anima	8	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken/	/ All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- 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 ₂) tab twice daily for 5 days.		
	months of	Endo/ Ecto parasite or sk	in - Inject Neomac @ 1 ml/ 10 kg body weight.		
	age	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	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		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 months or		vitamins like Livozyme @ 50ml twice daily.		
	below	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
	001011	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		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		
			Select fully matured male and female brood fish for induced breeding		
Hatchery			eding is done) and incubators		
Unit			s in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
		5 litre of water capacity)			
	Supply or	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: Tamenglong

Past weather for the of Imphal West (19th to 22nd July, 19):

15.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $30.0-35.0~^{\circ}\text{C}$ and minimum of $20.2-22.0~^{\circ}\text{C}$. Mean relative humidity of $85.7~^{\circ}\text{M}$ max & $56.0~^{\circ}\text{M}$ min was recorded in the past three days & average wind speed was 1.8-3.4~km/hr.

Weather forecast for Tamenglong (24th to 28th July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-30 $^{\circ}$ C & mini. temp. 23-24 $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 73 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 23rd July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		 Choose medium or late variety of rice. Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- 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	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		 Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars. Avoid earthing up after 40 days of sowing in <i>groundnut</i>.
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
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/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Litchi/ Tree bean			Prune the disease infected twigs and burn them outside the farm area.Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to transplanting		 For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation. Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.



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



"Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken/	All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- 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 ₂) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or sk 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	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		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		
Goat	except three months or below	1 doctoriosis	vitamins like Livozyme @ 50ml twice daily.		
		Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
		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 S	eed 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			eding is done) and incubators		
Unit			s in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and		
		75 litre of water capacity)			
	Supply or	ly 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: Thoubal

Past weather for the of Imphal West (19th to 22nd July, 19):

15.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $30.0-35.0~^{\circ}\text{C}$ and minimum of $20.2-22.0~^{\circ}\text{C}$. Mean relative humidity of 85.7~% max & 56.0~% min was recorded in the past three days & average wind speed was 1.8-3.4~km/hr.

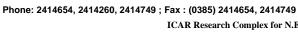
Weather forecast for Thoubal (24th to 28th July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-30 $^{\circ}\text{C}$ & mini. temp. 23-24 $^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max) & 76 % (min). The average wind speed may be 3-5 km/hr.

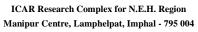
Date of issue: 23rd July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		 Choose medium or late variety of rice. Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- 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	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		 Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars. Avoid earthing up after 40 days of sowing in <i>groundnut</i>.
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
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.Prune the disease infected twigs and burn them outside the farm area.
F 1 C 10	N		- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to transplanting		 For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation. Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric +	Rhizome formation		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
French Bean	in turmeric		- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.



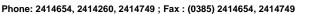






"Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ anim	al Stage	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken	/ All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- 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 ₂) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or sk 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	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		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 except three	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
	months or	En demonsite /	vitamins like Livozyme @ 50ml twice daily. Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
	below	Endoparasite/ Ectoparasite	accompanied with Livozyme @ 50ml daily.		
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be		
		Management	carried out strictly. Due care need to be taken to prevent spread of disease		
			caused by flies/ mosquitoes/ ticks, etc.		
Fishery:			caused by most most areas, etc.		
	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m		
Carp culture	seed production	rond and water	2. Apply lime 30 Kg/ha every 30 days interval		
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
		rccu	splits		
		Fish	Select fully matured male and female brood fish for induced breeding		
Hatchery	1. Use only	Use only clean hapas (if hapa breeding is done) and incubators			
Unit					
		re of water capacity)			
		only good water quality having optimum dissolved oxygen and PH level for hatching.			
5. Supply only good water quality naving optimum dissolved oxygen and 111 level for natening.					





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

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Ukhrul

Past weather for the of Imphal West (19th to 22nd July, 19):

15.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $30.0-35.0~^{\circ}\text{C}$ and minimum of $20.2-22.0~^{\circ}\text{C}$. Mean relative humidity of 85.7~% max & 56.0~% min was recorded in the past three days & average wind speed was 1.8-3.4~km/hr.

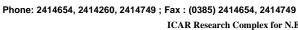
Weather forecast for Ukhrul (24th to 28th July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-30 $^{\circ}$ C & mini. temp. 23-24 $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 70 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 23rd July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		 Choose medium or late variety of rice. Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- 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	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		 Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars. Avoid earthing up after 40 days of sowing in <i>groundnut</i>.
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
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/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Litchi/ Tree bean			- Prune the disease infected twigs and burn them outside the farm area.- Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to transplanting		 For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation. Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		 Sow short duration crop like Pant Anupam as intercrop with turmeric. Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.



Disease/ Management



Agro-meteorological advisories



Name of bird/ animal

Stage

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"Gramin Krishi Mausam Seva"

- 100	585				
Poultry (Chicker	ı/ All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- 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 ₂) tab twice daily for 5 days.		
	months of	Endo/ Ecto parasite or sk	in - Inject Neomac @ 1 ml/ 10 kg body weight.		
	age	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	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		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		only clean hapas (if hapa breeding is done) and incubators			
Unit	2. Put only r	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	1275 litre of water capacity)			
	Supply or	nly good water quality ha	aving optimum dissolved oxygen and PH level for hatching.		



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

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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: Bishnupur

Past weather for the of Imphal West (19th to 22nd July, 19):

15.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $30.0-35.0~^{\circ}\text{C}$ and minimum of $20.2-22.0~^{\circ}\text{C}$. Mean relative humidity of 85.7~% max & 56.0~% min was recorded in the past three days & average wind speed was 1.8-3.4~km/hr.

Weather forecast for Bishnupur (24th to 28th July, 2019):

Likely to have light rains on Saturday and Sunday then moderate rains from Monday. The sky will remain partly cloudy to mainly cloudy and overcast thereafter with max. temp. 29-30 $^{\circ}$ C & mini. temp. 23-24 $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 69 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 23rd July, 2019

- 1. Monitor insect pest infestation and water requirement in the crop field.
- 2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		 Choose medium or late variety of rice. Uproot the seedlings at 16-21 days after sowing. Transplant at a spacing of 20x10cm.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- 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	- Apply Emamectin benzoate@ 4g/litre water or Spinosad @ 3ml/ litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative		 Sowing may be done in upland fields. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. For crops in vegetative stage, second hand weeding may be done nearly at 35 days after sowing to avoid leaf eating insects/hairy caterpillars. Avoid earthing up after 40 days of sowing in <i>groundnut</i>.
		hairy caterpillars	- For control of red hairy caterpillars, apply any contact insecticide.
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/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate.
Litchi/ Tree bean			Prune the disease infected twigs and burn them outside the farm area.Spray Copper oxychloride @ 3ml/lit to control fungal disease.
Early Cauliflower	Nursery to transplanting		 For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m²of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc. Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation. Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.





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



"Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ anima	8	Disease/ Management	Agro-meteorological advisories		
Poultry (Chicken/	All	Endoparasites	- De-worm using Piperazine citrate.		
Duck)	susceptible		- 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 ₂) tab twice daily for 5 days.		
	months of age	Endo/ Ecto parasite or skinfection			
		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	Endoparasite/	- Inject Parid @ 1 ml/ 50 kg body weight.		
	age	Ectoparasite			
		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 except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with		
		7.1	vitamins like Livozyme @ 50ml twice daily.		
		Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight		
		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		
F: .1			caused by flies/ mosquitoes/ ticks, etc.		
Fishery:					
Carp culture Se	Seed production		1. Water depth should be maintained at 2.0 m		
			2. Apply lime 30 Kg/ha every 30 days interval		
			Provide Nutritionally well balanced feed @ 3.5% body weight per day in two		
			splits		
II o 4 ols over	Fish Select fully matured male and female brood fish for induced breeding				
Hatchery	1. Use only clean hapas (if hapa breeding 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)			
	5. Supply of	aly good water quality having optimum dissolved oxygen and PH level for hatching.			