

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 (13th to 16th Sept, 2019):

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9-31.5 °C and minimum of 20.1-22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6-5.4 km/ hr.

Weather forecast for Thoubal (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 33-34 °C & mini. temp. 24-25°C. Relative humidity may reach upto 98 % (max) & 79 % (min). The average wind speed may be 2-5 km/hr.

Date of issue: 17th September, 2019

- 1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
- 2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

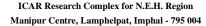
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation	Sheath blight/ sheath rot Aphid	 Maintain water level of 5-8 cm in the crop field. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application. Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
Bean		Aphid and leaf miner	- Spray Metasystox 25 EC @1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		 - Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
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
Cabbage/ Broccoli/ Cauliflower	Nursery		 Nursery site should be fertile and well drained. For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Roof may be made up of polythene/ tin/ paddy straw as per convenience. Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.

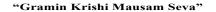




Broad bean/ F French bean	Pea/	Land prepara				epare land for sowing. Procure healthy disease free seeds for sowing. eat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean		Trees above			Apı	ply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Turmeric		age/ Bearing Rhizome init		Soil nutrition		pply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with l to improve soil fertility.
Animal Sciences	S				5011	
Name of bird/ ani		Stage	Disea	ase/ Management		Agro-meteorological advisories
Poultry (Chicke Duck)	en/	All susceptible	Dewori	ning		se Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next with half the dose at regular interval of 3 weeks.
		age groups	Coccidi	osis	- A:	s a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit water.
						ive green grasses sufficiently & mix with ground maize/rice bran.
			Care &	management		oper ventilation must be provided to protect excessive heat during day
				C		e. Use water sanitizer in drinking water/potassium permangnate (few
						ins). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and x it properly.
Pig		Above 3	Coccidi	al infection	- O:	floxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		months of age	Endo/ Ecto parasite or skin infection		in - In	nject Neomac @ 1 ml/ 10 kg body weight.
			Management			reat drinking water with potassium permanganate/ sanitizer. Provide ple ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle		Above 3	Fascioliasis Deworming Management			e-worming with suitable Anthelmatics against Faciolasis.
		months of age				we Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1/2kg body weight or 5.5ml/10 kg body weight (Ranizole).
						rovide wholesome water. Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat		All age groups except three months or	Fascioliosis Endoparasite/		- Gi	ive Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with amins like Livozyme @ 50ml twice daily.
						worm using Minthal bolus @ ½ bolus per 20 kg body weight
		below	Ectoparasite			companied with Livozyme @ 50ml daily.
Fishery:			F		110 0	
Carp culture	Nııı	rseries/ grow-	Pond ar	nd water	Maintain	n minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-
curp curcure	out		1 ona ui	ia water	30kg/ ha every month.	
					Broadcast Green AQ @2 litre/ha by mixing with water.	
			Feed			feed 2 times @ 5 % body weight per day.
					Provide g	good feed having 30% crude protein fortified with vitamins and
			Fish			i-intensive farming, 8000-10000 fingerlings can be stocked in one
					- Stockin	ng ratio may be maintained at 40% of surface feeder, 30% column and 30% bottom feeder.
						ng of fish for growth, disease should be done regularly by netting.
In integrated				0-40 two months old pigs may be kept for fertilization of the one ha fish		
Fish Farming	8					gs are feed on mash at an average of 1kg/day. Green grasses or animal
3						also provided. Grass with interlocked soil in the root system (sod) is
						I once a week to avoid mineral deficiency.
	Duc	ck				ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha
D.					pond.	1









MANIPUR AGROMET ADVISORY BULLETIN

District: Ukhrul

Past weather for the of Imphal West (13th to 16th Sept, 2019):

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of $14^{\rm th}$ and on $15^{\rm th}$ Sept. Maximum temperature ranged from 27.9–31.5 $^{\rm o}{\rm C}$ and minimum of 20.1–22.2 $^{\rm o}{\rm C}$. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Ukhrul (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 32-33 °C & mini. temp. 25°C. Relative humidity may reach upto 97 % (max) & 65 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 17th September, 2019

- 1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
- 2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field.
			- Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and
			maintain water level at 5-8 cm. If there is insect-pest infestations avoid
			fertilizer application.
		Sheath blight/	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain
		sheath rot	out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water
			after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval
Groundnut/ Rice			after rains.
Bean		Aphid and leaf miner	- Spray Metasystox 25 EC @1ml/ litre of water after rains.
		Tikka disease in	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka
		groundnut	disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with
			linseed oil as sticker at an interval of 15 days are effective in checking
		**	the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
			control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after
Millet/ Blackgram	Vegetative	Hairy caterpillar	rains. Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Williet/ Blackgrain	vegetative	Hairy caterpinar	Spray Chloropyriphos 20 EC @ 2.5 ml/ in or water after rams.
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	a.	I I	
Name of the crop	Stage Nursery	Pest and disease	Agro-meteorological advisories - Nursery site should be fertile and well drained.
Cabbage/ Broccoli/	Nursery		- For the present situation of weather, make shift arrangement like
Cauliflower			temperory rain shelter. Temporary roof of the nursery bed should be in the
Caumiowei			slanting position (6 feet in the East and 4 feet in the west at a height of 4
			feet. Roof may be made up of polythene/ tin/ paddy straw as per
			convenience. Apply Captan 50 WP@ 5g/m2 after preparation of the
			nursery bed. After application keep it covered for at least 24-48 hours.
Broad bean/ Pea/	Land preparation/		Prepare land for sowing. Procure healthy disease free seeds for sowing.
French bean	seed collection to		Treat seeds with Carbendazim @ 2g/kg seeds before sowing.
	sowing		
Tree bean	Trees above 7yrs		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
	age/ Bearing plants		
Turmeric	Rhizome initiation	Soil nutrition	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
		management	soil to improve soil fertility.



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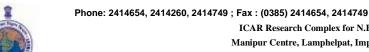
ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004



"Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ ani	imal	Stage	Disease/ Managemen	nt	Agro-meteorological advisories
Poultry (Chicke	en/	All	Deworming		- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
Duck)		susceptible			day with half the dose at regular interval of 3 weeks.
		age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit
					of water.
					- Give green grasses sufficiently & mix with ground maize/ rice bran.
			Care & management		Proper ventilation must be provided to protect excessive heat during day
					time. Use water sanitizer in drinking water/potassium permangnate (few
					grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and
					mix it properly.
Pig		Above 3	Coccidial infection	1.	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		months of age	Endo/ Ecto parasite or sinfection	skın	- Inject Neomac @ 1 ml/ 10 kg body weight.
		C	Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide
					ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle		Above 3	Fascioliasis		- De-worming with suitable Anthelmatics against Faciolasis.
		months of	Deworming		Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
		age			1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
			Management		- Provide wholesome water.
					- Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat		All age groups	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
		except three months or below			vitamins like Livozyme @ 50ml twice daily.
			Endoparasite/		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight
TI I			Ectoparasite		accompanied with Livozyme @ 50ml daily.
Fishery:	_			_	
Carp culture		rseries/ grow-	Pond and water		intain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-
	out				rg/ ha every month.
			F 1	Bro	padcast Green AQ @2 litre/ha by mixing with water.
			Feed		vide feed 2 times @ 5 % body weight per day.
					vide good feed having 30% crude protein fortified with vitamins and
			Fish		neral. semi-intensive farming, 8000-10000 fingerlings can be stocked in one
			1.1811		tare pond.
					ocking ratio may be maintained at 40% of surface feeder, 30% column
					der and 30% bottom feeder.
					ampling of fish for growth, disease should be done regularly by netting.
In integrated Pig				out 30-40 two months old pigs may be kept for fertilization of the one ha fish	
Fish Farming	1 - 2				id. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal
					ler is also provided. Grass with interlocked soil in the root system (sod) is
					vided once a week to avoid mineral deficiency.
	Du	ck			0-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha
				pon	
				_	

(I. Meghachandra Singh) Nodal Officer, GKMS



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 (13th to 16th Sept, 2019):

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9-31.5 °C and minimum of 20.1-22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6-5.4 km/ hr.

Weather forecast for Bishnupur (18th to 22nd Sept, 2019):

E-mail: agromet_mnp@yahoo.co.uk

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 32-34 °C & mini. temp. 24-25°C. Relative humidity may reach upto 98 % (max) & 75 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 17th September, 2019

- 1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
- 2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation	Sheath blight/ sheath rot Aphid	 Maintain water level of 5-8 cm in the crop field. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application. Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
Bean		Aphid and leaf miner	- Spray Metasystox 25 EC @1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		 - Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
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
Cabbage/ Broccoli/ Cauliflower	Nursery		 Nursery site should be fertile and well drained. For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Roof may be made up of polythene/ tin/ paddy straw as per convenience. Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.





Broad bean/ F French bean	Pea/	Land prepara				epare land for sowing. Procure healthy disease free seeds for sowing. eat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean		Trees above			Apı	ply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Turmeric		age/ Bearing Rhizome init		Soil nutrition		pply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with l to improve soil fertility.
Animal Sciences	S				5011	
Name of bird/ ani		Stage	Disea	ase/ Management		Agro-meteorological advisories
Poultry (Chicke Duck)	en/	All susceptible	Dewori	ning		se Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next with half the dose at regular interval of 3 weeks.
		age groups	Coccidi	osis	- A:	s a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit water.
						ive green grasses sufficiently & mix with ground maize/rice bran.
			Care &	management		oper ventilation must be provided to protect excessive heat during day
				C		e. Use water sanitizer in drinking water/potassium permangnate (few
						ins). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and x it properly.
Pig		Above 3	Coccidi	al infection	- O:	floxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		months of age	Endo/ Ecto parasite or skin infection		in - In	nject Neomac @ 1 ml/ 10 kg body weight.
			Management			reat drinking water with potassium permanganate/ sanitizer. Provide ple ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle		Above 3	Fascioliasis Deworming Management			e-worming with suitable Anthelmatics against Faciolasis.
		months of age				we Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1/2kg body weight or 5.5ml/10 kg body weight (Ranizole).
						rovide wholesome water. Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat		All age groups except three months or	Fascioliosis Endoparasite/		- Gi	ive Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with amins like Livozyme @ 50ml twice daily.
						worm using Minthal bolus @ ½ bolus per 20 kg body weight
		below	Ectoparasite			companied with Livozyme @ 50ml daily.
Fishery:			F		110 0	
Carp culture	Nııı	rseries/ grow-	Pond ar	nd water	Maintain	n minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-
Curp curcure	out		1 ona ui	ia water	30kg/ ha every month.	
					Broadcast Green AQ @2 litre/ha by mixing with water.	
			Feed			feed 2 times @ 5 % body weight per day.
					Provide g	good feed having 30% crude protein fortified with vitamins and
			Fish			i-intensive farming, 8000-10000 fingerlings can be stocked in one
					- Stockin	ng ratio may be maintained at 40% of surface feeder, 30% column and 30% bottom feeder.
						ng of fish for growth, disease should be done regularly by netting.
In integrated				0-40 two months old pigs may be kept for fertilization of the one ha fish		
Fish Farming	8					gs are feed on mash at an average of 1kg/day. Green grasses or animal
3						also provided. Grass with interlocked soil in the root system (sod) is
						I once a week to avoid mineral deficiency.
	Duc	ck				ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha
D.					pond.	1



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



MANIPUR AGROMET ADVISORY BULLETIN

District: Chandel

Past weather for the of Imphal West (13th to 16th Sept, 2019):

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9-31.5 °C and minimum of 20.1-22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6-5.4 km/ hr.

Weather forecast for Chandel (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 30-33 °C & mini. temp. 24-25°C. Relative humidity may reach upto 96 % (max) & 66 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 17th September, 2019

- 1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
- 2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation	1 est anu uistast	- Maintain water level of 5-8 cm in the crop field.
			- Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and
			maintain water level at 5-8 cm. If there is insect-pest infestations avoid
			fertilizer application.
		Sheath blight/	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain
		sheath rot	out water from field before the spray. Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water
		Aphid	after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
Bean		Aphid and leaf miner	- Spray Metasystox 25 EC @1ml/ litre of water after rains.
		Tikka disease in	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka
		groundnut	disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking
			the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
			control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production
			of seed in foothills and upland area Procure healthy good quality suitable variety seed tuber from reliable
			source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
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.
Hantiaultuna Cuana			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
Cabbage/	Nursery	i est and disease	- Nursery site should be fertile and well drained.
Broccoli/			- For the present situation of weather, make shift arrangement like
Cauliflower			temperory rain shelter. Temporary roof of the nursery bed should be in the
			slanting position (6 feet in the East and 4 feet in the west at a height of 4
			feet.
			- Roof may be made up of polythene/ tin/ paddy straw as per convenience.
			- Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After
			application keep it covered for at least 24-48 hours.





Broad bean/ F French bean	Pea/	Land prepara				epare land for sowing. Procure healthy disease free seeds for sowing. eat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean		Trees above			Apı	ply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Turmeric		age/ Bearing Rhizome init		Soil nutrition		pply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with l to improve soil fertility.
Animal Sciences	S				5011	
Name of bird/ ani		Stage	Disea	ase/ Management		Agro-meteorological advisories
Poultry (Chicke Duck)	en/	All susceptible	Dewori	ning		se Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next with half the dose at regular interval of 3 weeks.
		age groups	Coccidi	osis	- A:	s a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit water.
						ive green grasses sufficiently & mix with ground maize/rice bran.
			Care &	management		oper ventilation must be provided to protect excessive heat during day
				C		e. Use water sanitizer in drinking water/potassium permangnate (few
						ins). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and x it properly.
Pig		Above 3	Coccidi	al infection	- O:	floxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		months of age	Endo/ Ecto parasite or skin infection		in - In	nject Neomac @ 1 ml/ 10 kg body weight.
			Management			reat drinking water with potassium permanganate/ sanitizer. Provide ple ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle		Above 3	Fascioliasis Deworming Management			e-worming with suitable Anthelmatics against Faciolasis.
		months of age				we Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1/2kg body weight or 5.5ml/10 kg body weight (Ranizole).
						rovide wholesome water. Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat		All age groups except three months or	Fascioliosis Endoparasite/		- Gi	ive Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with amins like Livozyme @ 50ml twice daily.
						worm using Minthal bolus @ ½ bolus per 20 kg body weight
		below	Ectoparasite			companied with Livozyme @ 50ml daily.
Fishery:			F		110 0	
Carp culture	Nııı	rseries/ grow-	Pond ar	nd water	Maintain	n minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-
Curp curcure	out		1 ona ui	ia water	30kg/ ha every month.	
					Broadcast Green AQ @2 litre/ha by mixing with water.	
			Feed			feed 2 times @ 5 % body weight per day.
					Provide g	good feed having 30% crude protein fortified with vitamins and
			Fish			i-intensive farming, 8000-10000 fingerlings can be stocked in one
					- Stockin	ng ratio may be maintained at 40% of surface feeder, 30% column and 30% bottom feeder.
						ng of fish for growth, disease should be done regularly by netting.
In integrated				0-40 two months old pigs may be kept for fertilization of the one ha fish		
Fish Farming	8					gs are feed on mash at an average of 1kg/day. Green grasses or animal
3						also provided. Grass with interlocked soil in the root system (sod) is
						I once a week to avoid mineral deficiency.
	Duc	ck				ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha
D.					pond.	1



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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: Churachandpur

Past weather for the of Imphal West (13th to 16th Sept, 2019):

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9-31.5 °C and minimum of 20.1-22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6-5.4 km/ hr.

Weather forecast for Churachandpur (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 30-34 °C & mini. temp. 24-25°C. Relative humidity may reach upto 98 % (max) & 67 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 17th September, 2019

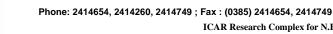
- 1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
- 2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

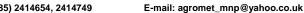
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field.
			- Apply 33 kg Urea/ha at panicle initiation stage after complete removal
			of water after rains. Irrigate field after 48 hrs of top dressing and
			maintain water level at 5-8 cm. If there is insect-pest infestations avoid
			fertilizer application.
		Sheath blight/	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain
		sheath rot	out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water
		Tipina	after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval
Groundnut/ Rice	Trutting pessins	Tast in Boyocan	after rains.
Bean		Aphid and leaf	- Spray Metasystox 25 EC @1ml/ litre of water after rains.
		miner	Spray Metasystox 25 Le & Hill/ little of water after railis.
		Tikka disease in	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka
		groundnut	disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with
			linseed oil as sticker at an interval of 15 days are effective in checking
			the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
			control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after
			rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production
	Zuna propuration		of seed in foothills and upland area.
			- Procure healthy good quality suitable variety seed tuber from reliable
			source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
	172411450110110		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
Cabbage/	Nursery		- Nursery site should be fertile and well drained.
Broccoli/			- For the present situation of weather, make shift arrangement like
Cauliflower			temperory rain shelter. Temporary roof of the nursery bed should be in the
			slanting position (6 feet in the East and 4 feet in the west at a height of 4
			feet.
			- Roof may be made up of polythene/ tin/ paddy straw as per convenience.
			- Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After
			application keep it covered for at least 24-48 hours.





Broad bean/ F French bean	Pea/	Land prepara				epare land for sowing. Procure healthy disease free seeds for sowing. eat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean		Trees above			Apı	ply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Turmeric		age/ Bearing Rhizome init		Soil nutrition		pply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with l to improve soil fertility.
Animal Sciences	S				5011	
Name of bird/ ani		Stage	Disea	ase/ Management		Agro-meteorological advisories
Poultry (Chicke Duck)	en/	All susceptible	Dewori	ning		se Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next with half the dose at regular interval of 3 weeks.
		age groups	Coccidi	osis	- A:	s a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit water.
						ive green grasses sufficiently & mix with ground maize/rice bran.
			Care &	management		oper ventilation must be provided to protect excessive heat during day
				C		e. Use water sanitizer in drinking water/potassium permangnate (few
						ins). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and x it properly.
Pig		Above 3	Coccidi	al infection	- O:	floxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		months of age	Endo/ Ecto parasite or skin infection		in - In	nject Neomac @ 1 ml/ 10 kg body weight.
			Management			reat drinking water with potassium permanganate/ sanitizer. Provide ple ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle		Above 3	Fascioliasis Deworming Management			e-worming with suitable Anthelmatics against Faciolasis.
		months of age				we Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1/2kg body weight or 5.5ml/10 kg body weight (Ranizole).
						rovide wholesome water. Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat		All age groups except three months or	Fascioliosis Endoparasite/		- Gi	ive Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with amins like Livozyme @ 50ml twice daily.
						worm using Minthal bolus @ ½ bolus per 20 kg body weight
		below	Ectoparasite			companied with Livozyme @ 50ml daily.
Fishery:			F		110 0	
Carp culture	Nııı	rseries/ grow-	Pond ar	nd water	Maintain	n minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-
Curp curcure	out		1 ona ui	ia water	30kg/ ha every month.	
					Broadcast Green AQ @2 litre/ha by mixing with water.	
			Feed			feed 2 times @ 5 % body weight per day.
					Provide g	good feed having 30% crude protein fortified with vitamins and
			Fish			i-intensive farming, 8000-10000 fingerlings can be stocked in one
					- Stockin	ng ratio may be maintained at 40% of surface feeder, 30% column and 30% bottom feeder.
						ng of fish for growth, disease should be done regularly by netting.
In integrated				0-40 two months old pigs may be kept for fertilization of the one ha fish		
Fish Farming	8					gs are feed on mash at an average of 1kg/day. Green grasses or animal
3						also provided. Grass with interlocked soil in the root system (sod) is
						I once a week to avoid mineral deficiency.
	Duc	ck				ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha
D.					pond.	1





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



"Gramin Krishi Mausam Seva"

MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal East

Past weather for the of Imphal West (13th to 16th Sept, 2019):

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of $14^{\rm th}$ and on $15^{\rm th}$ Sept. Maximum temperature ranged from 27.9–31.5 $^{\rm o}{\rm C}$ and minimum of 20.1–22.2 $^{\rm o}{\rm C}$. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Imphal East (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 30-31 °C & mini. temp. 21°C. Relative humidity may reach upto 96 % (max) & 66 % (min). The average wind speed may be 4-7 km/hr.

Date of issue: 17th September, 2019

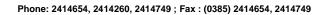
- 1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
- 2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation	T est and disease	- Maintain water level of 5-8 cm in the crop field.
			- Apply 33 kg Urea/ha at panicle initiation stage after complete removal
			of water after rains. Irrigate field after 48 hrs of top dressing and
			maintain water level at 5-8 cm. If there is insect-pest infestations avoid
			fertilizer application.
		Sheath blight/	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain
		sheath rot	out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water
		Apina	after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval
Groundnut/ Rice	Truiting pegging	Rust III Boybean	after rains.
Bean		Aphid and leaf	- Spray Metasystox 25 EC @1ml/ litre of water after rains.
		miner	Spray Metasystox 25 Le & Hill/ little of water after railis.
		Tikka disease in	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka
		groundnut	disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with
			linseed oil as sticker at an interval of 15 days are effective in checking
			the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
			control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after
			rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production
	1 1		of seed in foothills and upland area.
			- Procure healthy good quality suitable variety seed tuber from reliable
			source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> 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
Cabbage/	Nursery		- Nursery site should be fertile and well drained.
Broccoli/			- For the present situation of weather, make shift arrangement like
Cauliflower			temperory rain shelter. Temporary roof of the nursery bed should be in the
			slanting position (6 feet in the East and 4 feet in the west at a height of 4
			feet.
			- Roof may be made up of polythene/ tin/ paddy straw as per convenience.
			- Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After
			application keep it covered for at least 24-48 hours.





Broad bean/ F French bean	Pea/	Land prepara				epare land for sowing. Procure healthy disease free seeds for sowing. eat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean		Trees above			Apı	ply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Turmeric		age/ Bearing Rhizome init		Soil nutrition		pply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with l to improve soil fertility.
Animal Sciences	S				5011	
Name of bird/ ani		Stage	Disea	ase/ Management		Agro-meteorological advisories
Poultry (Chicke Duck)	en/	All susceptible	Dewori	ning		se Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next with half the dose at regular interval of 3 weeks.
		age groups	Coccidi	osis	- A:	s a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit water.
						ive green grasses sufficiently & mix with ground maize/rice bran.
			Care &	management		oper ventilation must be provided to protect excessive heat during day
				C		e. Use water sanitizer in drinking water/potassium permangnate (few
						ins). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and x it properly.
Pig		Above 3	Coccidi	al infection	- O:	floxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		months of age	Endo/ Ecto parasite or skin infection		in - In	nject Neomac @ 1 ml/ 10 kg body weight.
			Management			reat drinking water with potassium permanganate/ sanitizer. Provide ple ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle		Above 3	Fascioliasis Deworming Management			e-worming with suitable Anthelmatics against Faciolasis.
		months of age				we Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1/2kg body weight or 5.5ml/10 kg body weight (Ranizole).
						rovide wholesome water. Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat		All age groups except three months or	Fascioliosis Endoparasite/		- Gi	ive Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with amins like Livozyme @ 50ml twice daily.
						worm using Minthal bolus @ ½ bolus per 20 kg body weight
		below	Ectoparasite			companied with Livozyme @ 50ml daily.
Fishery:			F		110 0	
Carp culture	Nııı	rseries/ grow-	Pond ar	nd water	Maintain	n minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-
Curp curcure	out		1 ona ui	ia water	30kg/ ha every month.	
					Broadcast Green AQ @2 litre/ha by mixing with water.	
			Feed			feed 2 times @ 5 % body weight per day.
					Provide g	good feed having 30% crude protein fortified with vitamins and
			Fish			i-intensive farming, 8000-10000 fingerlings can be stocked in one
					- Stockin	ng ratio may be maintained at 40% of surface feeder, 30% column and 30% bottom feeder.
						ng of fish for growth, disease should be done regularly by netting.
In integrated				0-40 two months old pigs may be kept for fertilization of the one ha fish		
Fish Farming	8					gs are feed on mash at an average of 1kg/day. Green grasses or animal
3						also provided. Grass with interlocked soil in the root system (sod) is
						I once a week to avoid mineral deficiency.
	Duc	ck				ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha
D.					pond.	1



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

Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal West

Past weather for the of Imphal West (13th to 16th Sept, 2019):

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14^{th} and on 15^{th} Sept. Maximum temperature ranged from 27.9–31.5 °C and minimum of 20.1–22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Imphal West (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy max. temp. 30-31 °C & mini. temp. 21°C. Relative humidity may reach upto 99 % (max) & 62 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 17th September, 2019

- 1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
- 2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

E! 11 C				
Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories	
Kharif Rice	Panicle initiation	rest and disease	- Maintain water level of 5-8 cm in the crop field Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.	
		Sheath blight/ sheath rot Aphid	 Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray. Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains. 	
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.	
Soybean/ Groundnut/ Rice	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.	
Bean		Aphid and leaf miner	- Spray Metasystox 25 EC @1ml/ litre of water after rains.	
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.	
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.	
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.	
Potato	Land preparation		 - Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing. 	
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		1		
Name of the crop Cabbage/ Broccoli/ Cauliflower	Nursery Stage	Pest and disease	- Nursery site should be fertile and well drained For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet Roof may be made up of polythene/ tin/ paddy straw as per convenience Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.	
Broad bean/ Pea/ French bean	Land preparation/ seed collection to		Prepare land for sowing. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.	



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



	sowing				
Tree bean		Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.	
Turmeric Rhizome init					
Animal Sciences					
Name of bird/ anin			ase/ Management	Agro-meteorological advisories	
Poultry (Chicker Duck)	susceptible	Deworming		- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.	
	age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.	
				- Give green grasses sufficiently & mix with ground maize/ rice bran.	
		Care & management		Proper ventilation must be provided to protect excessive heat during day	
				time. Use water sanitizer in drinking water/potassium permangnate (few	
				grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.	
Pig	Above 3	Coccidial infection		- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
	months of age	Endo/ Ecto parasite or skin infection		, , , , , , , , , , , , , , , , , , ,	
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide	
				ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Fascioliasis		- De-worming with suitable Anthelmatics against Faciolasis.	
	months of	Deworming		Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @	
	age			1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).	
		Manage	ement	- Provide wholesome water.	
				- Give Amoxyline/ Salbactum or any antibiotic for 5 days.	
Goat	All age groups except three	Fascioli	iosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.	
	months or	Endopa	rosito/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight	
	below	Endopa		accompanied with Livozyme @ 50ml daily.	
F:1		Ectopai	asite	accompanied with Livozynie & John dany.	
Fishery:					
Carp culture	Nurseries/ grow- out	Pond ar		Maintain minimum depth of 1.0 - 1.5 m and pH at $7.0 - 7.5$. Apply Lime @ 280kg/ ha every month.	
	out			Broadcast Green AQ @2 litre/ha by mixing with water.	
		Feed		Provide feed 2 times @ 5 % body weight per day.	
		T cca		Provide good feed having 30% crude protein fortified with vitamins and	
				nineral.	
		Fish		For semi-intensive farming, 8000-10000 fingerlings can be stocked in one	
				nectare pond.	
				Stocking ratio may be maintained at 40% of surface feeder, 30% column	
				Feeder and 30% bottom feeder.	
				Sampling of fish for growth, disease should be done regularly by netting.	
In integrated	Pig			About 30-40 two months old pigs may be kept for fertilization of the one ha fish	
Fish Farming	5			bond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal	
				Folder is also provided. Grass with interlocked soil in the root system (sod) is	
				provided once a week to avoid mineral deficiency.	
	Duck			200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha	
				oond.	



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 (13th to 16th Sept, 2019):

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9-31.5 °C and minimum of 20.1-22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6-5.4 km/ hr.

Weather forecast for Senapati (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 30-33 °C & mini. temp. 24-25°C. Relative humidity may reach upto 98 % (max) & 73 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 17th September, 2019

- 1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
- 2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		 Maintain water level of 5-8 cm in the crop field. Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
Bean		Aphid and leaf miner	- Spray Metasystox 25 EC @1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage/ Broccoli/ Cauliflower	Nursery		- Nursery site should be fertile and well drained For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Roof may be made up of polythene/ tin/ paddy straw as per convenience. Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Broad bean/ Pea/ French bean	Land preparation/ seed collection to sowing		Prepare land for sowing. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.



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



"Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ ani	imal	Stage	Disease/ Managemen	nt	Agro-meteorological advisories
Poultry (Chicke	en/	All	Deworming		- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
Duck)		susceptible			day with half the dose at regular interval of 3 weeks.
		age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit
					of water.
					- Give green grasses sufficiently & mix with ground maize/ rice bran.
			Care & management		Proper ventilation must be provided to protect excessive heat during day
					time. Use water sanitizer in drinking water/potassium permangnate (few
					grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and
		G : I' 1 : C :		mix it properly.	
Pig		Above 3	Coccidial infection		- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		months of age	Endo/ Ecto parasite or skin infection		- Inject Neomac @ 1 ml/ 10 kg body weight.
		S	Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide
					ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle		Above 3	Fascioliasis		- De-worming with suitable Anthelmatics against Faciolasis.
		months of	Deworming		Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
		age			1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
			Management		- Provide wholesome water.
					- Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat		All age groups except three months or below	Fascioliosis		- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with
			75. 1		vitamins like Livozyme @ 50ml twice daily.
			Endoparasite/		Deworm using Minthal bolus @ ½ bolus per 20 kg body weight
T1 1			Ectoparasite		accompanied with Livozyme @ 50ml daily.
Fishery:					
Carp culture		rseries/ grow-	Pond and water		intain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-
	out				rg/ ha every month.
			F 1	Bro	padcast Green AQ @2 litre/ha by mixing with water.
			Feed		vide feed 2 times @ 5 % body weight per day.
					vide good feed having 30% crude protein fortified with vitamins and
			Fish		neral. semi-intensive farming, 8000-10000 fingerlings can be stocked in one
			1/1811		tare pond.
					ocking ratio may be maintained at 40% of surface feeder, 30% column
					der and 30% bottom feeder.
					ampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming Duck				out 30-40 two months old pigs may be kept for fertilization of the one ha fish	
					ad. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal
					der is also provided. Grass with interlocked soil in the root system (sod) is
					vided once a week to avoid mineral deficiency.
		ck			0-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha
			pon		

(I. Meghachandra Singh) Nodal Officer, GKMS



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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 (13th to 16th Sept, 2019):

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14^{th} and on 15^{th} Sept. Maximum temperature ranged from 27.9–31.5 °C and minimum of 20.1–22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Tamenglong (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 28-32 °C & mini. temp. 24-25°C. Relative humidity may reach upto 99 % (max) & 63 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 17th September, 2019

- 1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
- 2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		Maintain water level of 5-8 cm in the crop field.Apply 33 kg Urea/ha at panicle initiation stage after complete removal
			of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid
		C1 41. 1.11 . 1.47	fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
Bean		Aphid and leaf miner	- Spray Metasystox 25 EC @1ml/ litre of water after rains.
		Tikka disease in	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka
		groundnut	disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with
			linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to
			control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area.
			- Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
Ü	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
Cabbage/	Nursery		- Nursery site should be fertile and well drained.
Broccoli/			- For the present situation of weather, make shift arrangement like
Cauliflower			temperory rain shelter. Temporary roof of the nursery bed should be in the
			slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet.
			- Roof may be made up of polythene/ tin/ paddy straw as per convenience.
			- Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After
			application keep it covered for at least 24-48 hours.



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Broad bean/ Per French bean	Land prepara seed collecti sowing			Prepare land for sowing. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean				Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Turmeric Rhizome init				
Animal Sciences				
Name of bird/ anim	al Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken Duck)	/ All susceptible	Deworming		- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
	age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
				- Give green grasses sufficiently & mix with ground maize/rice bran.
		Care & management		Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3	Coccidial infection		- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or skin infection		
	1.6-	Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Fascioliasis		- De-worming with suitable Anthelmatics against Faciolasis.
	months of age	Deworming		Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Manager	ment	- Provide wholesome water.- Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups except three	Fasciolio	osis	- 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.
Fishery:				·
Carp culture	Nurseries/ grow- out	30l Bro		Maintain minimum depth of 1.0 - 1.5 m and pH at $7.0 - 7.5$. Apply Lime @ 25- 30kg/ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	1	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	1	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
In integrated Fish Farming	Pig		1	- Sampling of fish for growth, disease should be done regularly by netting. About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
D	Duck			200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha

pond.