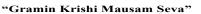




ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR AGROMET ADVISORY BULLETIN

District: Ukhrul

Past weather for the of Imphal West (9th and 10th October, 2019):

3.4 mm rainfall was observed during the past two days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 25.3–29.4 °C and minimum of 19.2–21.0 °C. Mean relative humidity of 91.0 % max & 63.5 % min was recorded in the past five days & average wind speed was 1.2–2.3 km/hr.

Weather forecast for Ukhrul (12th to 16th October, 2019):

Likely to have no rains upto Wednesday. The sky will remain partly cloudy to mainly cloudy with max. temp. 26-28 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 98 % (max) & 71 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 11th October, 2019

- 1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture and avoid loss of water from water bodies. Use water economically to ensure its availability in coming months.
- 2. For the fields where rice had failed due to uneven distribution of rainfall during the growing season, cultivation of Blackgram (urad dal)/ Lentil (masoor dal)/ Green gram (moong dal)/ Lathyrus (kachari) may be done as contingency crop by the mid of November so as to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/ kg seeds before sowing.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Flowering and Grain filling to		- Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation. Weeding may be done.
	maturity	Rice false smut	Spray Propiconazole @ 2ml/ litre water or Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 L water or Hexaconazole @ 2ml/ L water.
		Brown Plant Hopper or any sucking insect	Imidachloprid @ 7ml/ 15 litres of water.
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		Bacterial leaf blight	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
Soybean/ Groundnut/ Rice Bean	Pod formation to maturity		- Monitor insect pest infestation. Weeding may be done proper utilization of nutrients and moisture by the crop and avoid insect pest.
Millet/ Blackgram	Vegetative	Hairy caterpillars	 Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.
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		T = 1 = 1	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana			De-suckering and earthing-up - Maintain three suckers (including mother plant). Uproot excess suckers. - Remove dried/ diseased or decayed leaves. - Earthing-up should be done to avoid water logging at the base of the
			plant Spray 0.3% Phosphamidon around the base of the plant against rhizome weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic measure against Anthracnose.
Onion	Nursery raising		- Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate.
Broad bean/ Pea/ French bean	Land preparation/ seed collection to sowing		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.





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

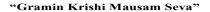


Mango	Appearance flush in bear trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or plant growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sciences Name of bird/ anima	ıl Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)		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.
		Care & management	- Give green grasses sufficiently & mix with ground maize/ rice bran. 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 slinfection	- Inject Neomac @ 1 ml/ 10 kg body weight.
	uge .	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).
		Management	- Provide wholesome water.- Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
	except three months or below	Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.
Fishery:			
Carp culture	Nurseries/ grow- out	Pond and water	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	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
F		Fish	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. - Sampling of fish for growth, disease should be done regularly by netting.
]	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR AGROMET ADVISORY BULLETIN

District: Bishnupur

Past weather for the of Imphal West (9th and 10th October, 2019):

3.4 mm rainfall was observed during the past two days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 25.3-29.4 °C and minimum of 19.2-21.0 °C. Mean relative humidity of 91.0 % max & 63.5 % min was recorded in the past five days & average wind speed was 1.2-2.3 km/ hr.

Weather forecast for Bishnupur (12th to 16th October, 2019):

E-mail: agromet_mnp@yahoo.co.uk

Likely to have no rains upto Wednesday. The sky will remain partly cloudy to mainly cloudy with max. temp. 29-34 °C & mini. temp. 17-22 °C. Relative humidity may reach upto 99 % (max) & 69 % (min). The average wind speed may be 2-5 km/hr.

Date of issue: 11th October, 2019

- 1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture and avoid loss of water from water bodies. Use water economically to ensure its availability in coming months.
- For the fields where rice had failed due to uneven distribution of rainfall during the growing season, cultivation of Blackgram (urad dal)/ Lentil (masoor dal)/ Green gram (moong dal)/ Lathyrus (kachari) may be done as contingency crop by the mid of November so as to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/ kg seeds before sowing

sowing.			
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Flowering and		- Maintain water level of 5-8 cm in the crop field. Monitor insect pest
	Grain filling to		infestation. Weeding may be done.
	maturity	Rice false smut	Spray Propiconazole @ 2ml/ litre water or Kocide @ 5g/15lit water
			(spray after 2:00 pm only) to the crops in flowering stage.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 L water or Hexaconazole @ 2ml/ L
			water.
		Brown Plant	Imidachloprid @ 7ml/ 15 litres of water.
		Hopper or any	
		sucking insect	
		Aphid, mealy	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres
		bugs	of water.
		Bacterial leaf	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per
		blight	sangam).
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
Soybean/	Pod formation to	TCCK Diast	- Monitor insect pest infestation. Weeding may be done proper
Groundnut/ Rice	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.
Bean	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.
Millet/ Blackgram	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
8			- Weeding may be done at 30 days after sowing for proper utilization of
			nutrients and moisture by the crop and avoid insect pest.
Potato	Land preparation to		- Land preparation for planting potato may be done as soon as optimum
	planting		soil moisture for land preparation is attained. Ploughing and planking
	Frames		may be done to attain well pulverized and leveled seed bed. Apply 20-
			30tons of well decomposed FYM at least two weeks before planting.
			- Select healthy and pure seeds of high yielding variety, free from insect
			pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to
			50g tuber seeds may be planted at row to row spacing of 55-60cm and
			plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
Secu storage	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
	ivianagement		Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			Check for moisture content or weight of charcoal and dry if required.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana	Stage		De-suckering and earthing-up
Danana			- Maintain three suckers (including mother plant). Uproot excess suckers.
			 - Maintain three suckers (including mother plant). Oproof excess suckers. - Remove dried/ diseased or decayed leaves.
			- Keniove dried/ diseased of decayed leaves Earthing-up should be done to avoid water logging at the base of the
			plant.
			- Spray 0.3% Phosphamidon around the base of the plant against rhizome
			weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic
			measure against Anthracnose.



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

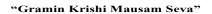


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Onion	Nursery raisi	ing		- Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate.	
Broad bean/ Pea/	Land prepara	ation/		Prepare land for sowing after rains. Procure healthy disease free seeds for	
French bean	seed collection			sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.	
Mango	Appearance flush in bear trees			At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or plant growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.	
Animal Sciences					
Name of bird/ animal	Stage	Disease/ M	anagement	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 & ma		ngement	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 inf	ection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
119	months of age	Endo/ Ecto parasite or skin infection			
	uge	Management	Ţ	- 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).	
		Management		- Provide wholesome water.- Give Amoxyline/ Salbactum or any antibiotic for 5 days.	
Goat	All age groups	Fascioliasis		- Give Tolzan-F in association with vitamins like Livozyme twice daily.	
	except three months or below	Endoparasite Ectoparasite	·/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.	
Fishery:	1 0010				
	furseries/ grow-	Pond and wa	tor 1	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-	
_	ut grow-	Pond and wa	3	Hamtain minimum depth of 1.0 - 1.3 in and pri at 7.0 - 7.3. Apply Linie @ 23-10kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.	
		Food			
		Feed	P	Provide feed 2 times @ 5 % body weight per day. 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	
			-	Stocking ratio may be maintained at 40% of surface feeder, 30% column	
				eeder and 30% bottom feeder.	
				Sampling of fish for growth, disease should be done regularly by netting.	
D	ruck			200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha bond.	



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





MANIPUR AGROMET ADVISORY BULLETIN

District: Chandel

Past weather for the of Imphal West (9th and 10th October, 2019):

3.4 mm rainfall was observed during the past two days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 25.3–29.4 °C and minimum of 19.2–21.0 °C. Mean relative humidity of 91.0 % max & 63.5 % min was recorded in the past five days & average wind speed was 1.2–2.3 km/ hr.

Weather forecast for Chandel (12th to 16th October, 2019):

E-mail: agromet_mnp@yahoo.co.uk

Likely to have no rains upto Wednesday. The sky will remain partly cloudy to mainly cloudy with max. temp. 27-28 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 97 % (max) & 76 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 11th October, 2019

- 1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture and avoid loss of water from water bodies. Use water economically to ensure its availability in coming months.
- 2. For the fields where rice had failed due to uneven distribution of rainfall during the growing season, cultivation of Blackgram (urad dal)/ Lentil (masoor dal)/ Green gram (moong dal)/ Lathyrus (kachari) may be done as contingency crop by the mid of November so as to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/ kg seeds before sowing.

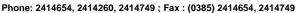
sowing.			
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Flowering and		- Maintain water level of 5-8 cm in the crop field. Monitor insect pest
	Grain filling to		infestation. Weeding may be done.
	maturity	Rice false smut	Spray Propiconazole @ 2ml/ litre water or Kocide @ 5g/15lit water
			(spray after 2:00 pm only) to the crops in flowering stage.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 L water or Hexaconazole @ 2ml/ L
			water.
		Brown Plant	Imidachloprid @ 7ml/ 15 litres of water.
		Hopper or any	
		sucking insect	
		Aphid, mealy	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres
		bugs	of water.
		Bacterial leaf	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per
		blight	sangam).
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
Soybean/	Pod formation to	TCCK Diast	- Monitor insect pest infestation. Weeding may be done proper
Groundnut/ Rice	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.
Bean	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.
Millet/ Blackgram	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
8			- Weeding may be done at 30 days after sowing for proper utilization of
			nutrients and moisture by the crop and avoid insect pest.
Potato	Land preparation to		- Land preparation for planting potato may be done as soon as optimum
	planting		soil moisture for land preparation is attained. Ploughing and planking
	Frames		may be done to attain well pulverized and leveled seed bed. Apply 20-
			30tons of well decomposed FYM at least two weeks before planting.
			- Select healthy and pure seeds of high yielding variety, free from insect
			pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to
			50g tuber seeds may be planted at row to row spacing of 55-60cm and
			plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
Secu storage	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
	ivianagement		Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			Check for moisture content or weight of charcoal and dry if required.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana	Stage		De-suckering and earthing-up
Danana			- Maintain three suckers (including mother plant). Uproot excess suckers.
			 - Maintain three suckers (including mother plant). Oproof excess suckers. - Remove dried/ diseased or decayed leaves.
			- Keniove dried/ diseased of decayed leaves Earthing-up should be done to avoid water logging at the base of the
			plant.
			- Spray 0.3% Phosphamidon around the base of the plant against rhizome
			weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic
			measure against Anthracnose.



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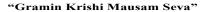


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Onion	Nursery raisi	ing		- Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate.	
Broad bean/ Pea/	Land prepara	ation/		Prepare land for sowing after rains. Procure healthy disease free seeds for	
French bean	seed collection			sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.	
Mango	Appearance flush in bear trees			At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or plant growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.	
Animal Sciences					
Name of bird/ animal	Stage	Disease/ M	anagement	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 & ma		ngement	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 inf	ection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
119	months of age	Endo/ Ecto parasite or skin infection			
	uge	Management	Ţ	- 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).	
		Management		- Provide wholesome water.- Give Amoxyline/ Salbactum or any antibiotic for 5 days.	
Goat	All age groups	Fascioliasis		- Give Tolzan-F in association with vitamins like Livozyme twice daily.	
	except three months or below	Endoparasite Ectoparasite	·/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.	
Fishery:	1 0010				
	furseries/ grow-	Pond and wa	tor 1	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-	
_	ut grow-	Pond and wa	3	Hamtain minimum depth of 1.0 - 1.3 in and pri at 7.0 - 7.3. Apply Linie @ 23-10kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.	
		Food			
		Feed	P	Provide feed 2 times @ 5 % body weight per day. 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	
			-	Stocking ratio may be maintained at 40% of surface feeder, 30% column	
				eeder and 30% bottom feeder.	
				Sampling of fish for growth, disease should be done regularly by netting.	
D	ruck			200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha bond.	





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 (9th and 10th October, 2019):

3.4 mm rainfall was observed during the past two days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 25.3–29.4 °C and minimum of 19.2–21.0 °C. Mean relative humidity of 91.0 % max & 63.5 % min was recorded in the past five days & average wind speed was 1.2–2.3 km/hr.

Weather forecast for Churachandpur (12th to 16th October, 2019):

Date of issue: 11th October, 2019

Likely to have no rains upto Wednesday. The sky will remain partly cloudy to mainly cloudy with max. temp. 26-28 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 99 % (max) & 75 % (min). The average wind speed may be 3-4 km/hr.

- 1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture and avoid loss of water from water bodies. Use water economically to ensure its availability in coming months.
- 2. For the fields where rice had failed due to uneven distribution of rainfall during the growing season, cultivation of Blackgram (urad dal)/ Lentil (masoor dal)/ Green gram (moong dal)/ Lathyrus (kachari) may be done as contingency crop by the mid of November so as to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/ kg seeds before sowing.

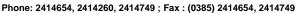
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Flowering and		- Maintain water level of 5-8 cm in the crop field. Monitor insect pest
	Grain filling to		infestation. Weeding may be done.
	maturity	Rice false smut	Spray Propiconazole @ 2ml/ litre water or Kocide @ 5g/15lit water
			(spray after 2:00 pm only) to the crops in flowering stage.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 L water or Hexaconazole @ 2ml/ L
		21450	water.
		Brown Plant	Imidachloprid @ 7ml/ 15 litres of water.
		Hopper or any	initiatinopria e /inii/13 littos of water.
		sucking insect	
		Aphid, mealy	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres
		bugs	of water.
		Bacterial leaf	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per
		blight	sangam).
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
Soybean/	Pod formation to		- Monitor insect pest infestation. Weeding may be done proper
Groundnut/ Rice	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.
Bean	,		, , ,
Millet/ Blackgram	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
			- Weeding may be done at 30 days after sowing for proper utilization of
			nutrients and moisture by the crop and avoid insect pest.
Potato	Land preparation to		- Land preparation for planting potato may be done as soon as optimum
	planting		soil moisture for land preparation is attained. Ploughing and planking
			may be done to attain well pulverized and leveled seed bed. Apply 20-
			30tons of well decomposed FYM at least two weeks before planting.
			- Select healthy and pure seeds of high yielding variety, free from insect
			pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to
			50g tuber seeds may be planted at row to row spacing of 55-60cm and
			plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
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	Α.		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana			De-suckering and earthing-up
			- Maintain three suckers (including mother plant). Uproot excess suckers.
			- Remove dried/ diseased or decayed leaves.
			- Earthing-up should be done to avoid water logging at the base of the
			plant.
			- Spray 0.3% Phosphamidon around the base of the plant against rhizome
			weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic
			measure against Anthracnose.

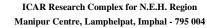


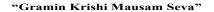
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Onion	Nursery raisi	ing		- Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate.	
Broad bean/ Pea/	Land prepara	ation/		Prepare land for sowing after rains. Procure healthy disease free seeds for	
French bean	seed collection			sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.	
Mango	Appearance flush in bear trees			At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or plant growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.	
Animal Sciences					
Name of bird/ animal	Stage	Disease/ M	anagement	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 & ma		ngement	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 inf	ection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
119	months of age	Endo/ Ecto parasite or skin infection			
	uge	Management	Ţ	- 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).	
		Management		- Provide wholesome water.- Give Amoxyline/ Salbactum or any antibiotic for 5 days.	
Goat	All age groups	Fascioliasis		- Give Tolzan-F in association with vitamins like Livozyme twice daily.	
	except three months or below	Endoparasite Ectoparasite	·/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.	
Fishery:	1 0010				
	furseries/ grow-	Pond and wa	tor 1	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-	
_	ut grow-	Pond and wa	3	Hamtain minimum depth of 1.0 - 1.3 in and pri at 7.0 - 7.3. Apply Linie @ 23-10kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.	
		Food			
		Feed	P	Provide feed 2 times @ 5 % body weight per day. 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	
			-	Stocking ratio may be maintained at 40% of surface feeder, 30% column	
				eeder and 30% bottom feeder.	
				Sampling of fish for growth, disease should be done regularly by netting.	
D	ruck			200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha bond.	









MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal East

Past weather for the of Imphal West (9th and 10th October, 2019):

3.4 mm rainfall was observed during the past two days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 25.3–29.4 °C and minimum of 19.2–21.0 °C. Mean relative humidity of 91.0 % max & 63.5 % min was recorded in the past five days & average wind speed was 1.2–2.3 km/hr.

Weather forecast for Imphal East (12th to 16th October, 2019):

Likely to have no rains upto Wednesday. The sky will remain partly cloudy to mainly cloudy with max. temp. 28-29 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 97 % (max) & 66 % (min). The average wind speed may be 4-6 km/hr.

Date of issue: 11th October, 2019

- 1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture and avoid loss of water from water bodies. Use water economically to ensure its availability in coming months.
- 2. For the fields where rice had failed due to uneven distribution of rainfall during the growing season, cultivation of Blackgram (urad dal)/ Lentil (masoor dal)/ Green gram (moong dal)/ Lathyrus (kachari) may be done as contingency crop by the mid of November so as to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/ kg seeds before sowing.

sowing.			
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Flowering and		- Maintain water level of 5-8 cm in the crop field. Monitor insect pest
	Grain filling to		infestation. Weeding may be done.
	maturity	Rice false smut	Spray Propiconazole @ 2ml/ litre water or Kocide @ 5g/15lit water
			(spray after 2:00 pm only) to the crops in flowering stage.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 L water or Hexaconazole @ 2ml/ L
			water.
		Brown Plant	Imidachloprid @ 7ml/ 15 litres of water.
		Hopper or any	
		sucking insect	
		Aphid, mealy	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres
		bugs	of water.
		Bacterial leaf	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per
		blight	sangam).
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
Soybean/	Pod formation to	TCCK Diast	- Monitor insect pest infestation. Weeding may be done proper
Groundnut/ Rice	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.
Bean	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.
Millet/ Blackgram	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
8			- Weeding may be done at 30 days after sowing for proper utilization of
			nutrients and moisture by the crop and avoid insect pest.
Potato	Land preparation to		- Land preparation for planting potato may be done as soon as optimum
	planting		soil moisture for land preparation is attained. Ploughing and planking
	Frames		may be done to attain well pulverized and leveled seed bed. Apply 20-
			30tons of well decomposed FYM at least two weeks before planting.
			- Select healthy and pure seeds of high yielding variety, free from insect
			pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to
			50g tuber seeds may be planted at row to row spacing of 55-60cm and
			plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
Secu storage	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
	ivianagement		Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			Check for moisture content or weight of charcoal and dry if required.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana	Stage		De-suckering and earthing-up
Danana			- Maintain three suckers (including mother plant). Uproot excess suckers.
			 - Maintain three suckers (including mother plant). Oproof excess suckers. - Remove dried/ diseased or decayed leaves.
			- Keniove dried/ diseased of decayed leaves Earthing-up should be done to avoid water logging at the base of the
			plant.
			- Spray 0.3% Phosphamidon around the base of the plant against rhizome
			weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic
			measure against Anthracnose.



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Onion	Nursery raisi	ing		- Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate.	
Broad bean/ Pea/	Land prepara	ation/		Prepare land for sowing after rains. Procure healthy disease free seeds for	
French bean	seed collection			sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.	
Mango	Appearance flush in bear trees			At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or plant growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.	
Animal Sciences					
Name of bird/ animal	Stage	Disease/ M	anagement	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 & ma		ngement	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 inf	ection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
119	months of age	Endo/ Ecto parasite or skin infection			
	uge	Management	Ţ	- 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).	
		Management		- Provide wholesome water.- Give Amoxyline/ Salbactum or any antibiotic for 5 days.	
Goat	All age groups	Fascioliasis		- Give Tolzan-F in association with vitamins like Livozyme twice daily.	
	except three months or below	Endoparasite Ectoparasite	·/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.	
Fishery:	1 0010				
	furseries/ grow-	Pond and wa	tor 1	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-	
_	ut grow-	Pond and wa	3	Hamtain minimum depth of 1.0 - 1.3 in and pri at 7.0 - 7.3. Apply Linie @ 23-10kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.	
		Food			
		Feed	P	Provide feed 2 times @ 5 % body weight per day. 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	
			-	Stocking ratio may be maintained at 40% of surface feeder, 30% column	
				eeder and 30% bottom feeder.	
				Sampling of fish for growth, disease should be done regularly by netting.	
D	ruck			200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha bond.	



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 (9th and 10th October, 2019):

3.4 mm rainfall was observed during the past two days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 25.3-29.4 °C and minimum of 19.2-21.0 °C. Mean relative humidity of 91.0 % max & 63.5 % min was recorded in the past five days & average wind speed was 1.2-2.3 km/ hr.

Weather forecast for Imphal West (12th to 16th October, 2019):

E-mail: agromet_mnp@yahoo.co.uk

Likely to have no rains upto Wednesday. The sky will remain partly cloudy to mainly cloudy with max. temp. 28-29 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 95 % (max) & 57 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 11th October, 2019

- 1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture and avoid loss of water from water bodies. Use water economically to ensure its availability in coming months.
- For the fields where rice had failed due to uneven distribution of rainfall during the growing season, cultivation of Blackgram (urad dal)/ Lentil (masoor dal)/ Green gram (moong dal)/ Lathyrus (kachari) may be done as contingency crop by the mid of November so as to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/ kg seeds before sowing

sowing.			
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Flowering and		- Maintain water level of 5-8 cm in the crop field. Monitor insect pest
	Grain filling to		infestation. Weeding may be done.
	maturity	Rice false smut	Spray Propiconazole @ 2ml/ litre water or Kocide @ 5g/15lit water
			(spray after 2:00 pm only) to the crops in flowering stage.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 L water or Hexaconazole @ 2ml/ L
			water.
		Brown Plant	Imidachloprid @ 7ml/ 15 litres of water.
		Hopper or any	
		sucking insect	
		Aphid, mealy	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres
		bugs	of water.
		Bacterial leaf	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per
		blight	sangam).
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
Soybean/	Pod formation to	TCCK Diast	- Monitor insect pest infestation. Weeding may be done proper
Groundnut/ Rice	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.
Bean	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.
Millet/ Blackgram	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
8			- Weeding may be done at 30 days after sowing for proper utilization of
			nutrients and moisture by the crop and avoid insect pest.
Potato	Land preparation to		- Land preparation for planting potato may be done as soon as optimum
	planting		soil moisture for land preparation is attained. Ploughing and planking
	Frames		may be done to attain well pulverized and leveled seed bed. Apply 20-
			30tons of well decomposed FYM at least two weeks before planting.
			- Select healthy and pure seeds of high yielding variety, free from insect
			pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to
			50g tuber seeds may be planted at row to row spacing of 55-60cm and
			plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
Secu storage	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
	ivianagement		Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			Check for moisture content or weight of charcoal and dry if required.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Banana	Stage		De-suckering and earthing-up
Danana			- Maintain three suckers (including mother plant). Uproot excess suckers.
			 - Maintain three suckers (including mother plant). Oproof excess suckers. - Remove dried/ diseased or decayed leaves.
			- Keniove dried/ diseased of decayed leaves Earthing-up should be done to avoid water logging at the base of the
			plant.
			- Spray 0.3% Phosphamidon around the base of the plant against rhizome
			weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic
			measure against Anthracnose.

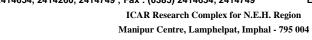


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Onion	Nursery raisi	ing		- Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate.	
Broad bean/ Pea/	Land prepara	ation/		Prepare land for sowing after rains. Procure healthy disease free seeds for	
French bean	seed collection			sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.	
Mango	Appearance flush in bear trees			At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or plant growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.	
Animal Sciences					
Name of bird/ animal	Stage	Disease/ M	anagement	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 & ma		ngement	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 inf	ection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
119	months of age	Endo/ Ecto parasite or skin infection			
	uge	Management	Ţ	- 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).	
		Management		- Provide wholesome water.- Give Amoxyline/ Salbactum or any antibiotic for 5 days.	
Goat	All age groups	Fascioliasis		- Give Tolzan-F in association with vitamins like Livozyme twice daily.	
	except three months or below	Endoparasite Ectoparasite	·/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.	
Fishery:	1 0010				
	furseries/ grow-	Pond and wa	tor 1	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-	
_	ut grow-	Pond and wa	3	Hamtain minimum depth of 1.0 - 1.3 in and pri at 7.0 - 7.3. Apply Linie @ 23-10kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.	
		Food			
		Feed	P	Provide feed 2 times @ 5 % body weight per day. 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	
			-	Stocking ratio may be maintained at 40% of surface feeder, 30% column	
				eeder and 30% bottom feeder.	
				Sampling of fish for growth, disease should be done regularly by netting.	
D	ruck			200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha bond.	







MANIPUR AGROMET ADVISORY BULLETIN

District: Senapati

Past weather for the of Imphal West (9th and 10th October, 2019):

3.4 mm rainfall was observed during the past two days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 25.3–29.4 °C and minimum of 19.2–21.0 °C. Mean relative humidity of 91.0 % max & 63.5 % min was recorded in the past five days & average wind speed was 1.2–2.3 km/hr.

Weather forecast for Senapati (12th to 16th October, 2019):

Likely to have no rains upto Wednesday. The sky will remain partly cloudy to mainly cloudy with max. temp. 26-27 $^{\circ}$ C & mini. temp. 18-19 $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 77 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 11th October, 2019

General Advisory:

1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture and avoid loss of water from water bodies. Use water economically to ensure its availability in coming months.

"Gramin Krishi Mausam Seva"

2. For the fields where rice had failed due to uneven distribution of rainfall during the growing season, cultivation of Blackgram (urad dal)/ Lentil (masoor dal)/ Green gram (moong dal)/ Lathyrus (kachari) may be done as contingency crop by the mid of November so as to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/ kg seeds before sowing.

sowing.				
Field Crops				
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories	
Kharif Rice	Flowering and		- Maintain water level of 5-8 cm in the crop field. Monitor insect pest	
	Grain filling to		infestation. Weeding may be done.	
	maturity	Rice false smut	Spray Propiconazole @ 2ml/ litre water or Kocide @ 5g/15lit water	
			(spray after 2:00 pm only) to the crops in flowering stage.	
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 L water or Hexaconazole @ 2ml/ L	
		21000	water.	
		Brown Plant	Imidachloprid @ 7ml/ 15 litres of water.	
		Hopper or any	initiation opita & /ini/ 13 intes of water.	
		sucking insect		
		Aphid, mealy	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres	
			of water.	
		bugs	33 11 11 12 1	
		Bacterial leaf	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per	
		blight	sangam).	
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.	
Soybean/	Pod formation to		- Monitor insect pest infestation. Weeding may be done proper	
Groundnut/ Rice	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.	
Bean	XX	XX ' ' '11	D' 11	
Millet/ Blackgram	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.	
			- Weeding may be done at 30 days after sowing for proper utilization of	
			nutrients and moisture by the crop and avoid insect pest.	
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	
Banana			De-suckering and earthing-up	
			- Maintain three suckers (including mother plant). Uproot excess suckers.	
			- Remove dried/ diseased or decayed leaves.	
			- Earthing-up should be done to avoid water logging at the base of the	
			plant.	
			- Spray 0.3% Phosphamidon around the base of the plant against rhizome	
			weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic	
			measure against Anthracnose.	
Onion	Nursery raising		- Prepare raised nursery beds, after sowing it must be covered with paddy	
	l land		straw or gunny bags. These must again be removed after 5-7 days as soon	
			as the seeds germinate.	
Broad bean/ Pea/	Land preparation/		Prepare land for sowing after rains. Procure healthy disease free seeds for	
French bean	seed collection to		sowing. Treat seeds with Carbendazim @ 2g/kg seeds before sowing.	
French Dean			sowing. That seeds with Carbendazini & 2g/ kg seeds before sowing.	
	sowing			





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



Mango	Appearance flush in bear trees		away (PG) litres fores	his stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet by from the trunk or plant growth promoting rhizobium bacteria PR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 s cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live st soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation be times a day. Use it for 1 acre with irrigation water.
Animal Sciences Name of bird/ anim	nal Stage	D' (M.		Agro-meteorological advisories
		Disease/ Management		
Poultry (Chicken Duck)	susceptible	Deworming	day	e 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	Coccidiosis	of w	a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit rater.
				we green grasses sufficiently & mix with ground maize/ rice bran.
		Care & management		per ventilation must be provided to protect excessive heat during day be. Use water sanitizer in drinking water/potassium permangnate (few eas). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and
				it properly.
Pig	Above 3	Coccidial infection		loxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	months of age	Endo/ Ecto parasite or skin infection		ect Neomac @ 1 ml/ 10 kg body weight.
	1.61	Management		eat drinking water with potassium permanganate/ sanitizer. Provide
Cattle	Above 3	Fascioliasis		le ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	months of	Deworming		-worming with suitable Anthelmatics against Faciolasis. e Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
	age	Deworming		² 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Management		ovide wholesome water. ve Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups	Fascioliasis		we Tolzan-F in association with vitamins like Livozyme twice daily.
	except three months or below	Endoparasite/ Ectoparasite		orm using Minthal bolus @ ½ bolus per 20 kg body weight ompanied with Livozyme daily.
Fishery:	·			
Carp culture	Nurseries/ grow- out	Pond and water	30kg/ha	minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-every month. t Green AQ @2 litre/ha by mixing with water.
		Feed	Provide fe	eed 2 times @ 5 % body weight per day. ood feed having 30% crude protein fortified with vitamins and
		Fish	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.	
	Duck		200-400 d	g of fish for growth, disease should be done regularly by netting. lucks of 2-3 months old are sufficient to adequately fertilize a 1 ha
			pond.	





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 (9th and 10th October, 2019):

3.4 mm rainfall was observed during the past two days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 25.3–29.4 °C and minimum of 19.2–21.0 °C. Mean relative humidity of 91.0 % max & 63.5 % min was recorded in the past five days & average wind speed was 1.2–2.3 km/hr.

Weather forecast for Tamenglong (12th to 16th October, 2019):

Likely to have no rains upto Wednesday. The sky will remain partly cloudy to mainly cloudy with max. temp. 26-28 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 98 % (max) & 72 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 11th October, 2019

- 1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture and avoid loss of water from water bodies. Use water economically to ensure its availability in coming months.
- 2. For the fields where rice had failed due to uneven distribution of rainfall during the growing season, cultivation of Blackgram (urad dal)/ Lentil (masoor dal)/ Green gram (moong dal)/ Lathyrus (kachari) may be done as contingency crop by the mid of November so as to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/ kg seeds before sowing.

sowing.			
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Flowering and Grain filling to		- Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation. Weeding may be done.
	maturity	Rice false smut	Spray Propiconazole @ 2ml/ litre water or Kocide @ 5g/15lit water (spray after 2:00 pm only) to the crops in flowering stage.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 L water or Hexaconazole @ 2ml/ L
		D DI	water.
		Brown Plant Hopper or any	Imidachloprid @ 7ml/ 15 litres of water.
		sucking insect	
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		Bacterial leaf blight	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
Soybean/	Pod formation to		- Monitor insect pest infestation. Weeding may be done proper
Groundnut/ Rice Bean	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.
Millet/ Blackgram	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
			- Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.
Potato	Land preparation to		- Land preparation for planting potato may be done as soon as optimum
2 00000	planting		soil moisture for land preparation is attained. Ploughing and planking
			may be done to attain well pulverized and leveled seed bed. Apply 20-
			30tons of well decomposed FYM at least two weeks before planting.
			- Select healthy and pure seeds of high yielding variety, free from insect
			pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to
			50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
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
Banana			De-suckering and earthing-up
			- Maintain three suckers (including mother plant). Uproot excess suckers.
			- Remove dried/ diseased or decayed leaves.
			- Earthing-up should be done to avoid water logging at the base of the
			plant.
			- Spray 0.3% Phosphamidon around the base of the plant against rhizome
			weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic measure against Anthracnose.
			measure against Antinachose.



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

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



Mile Sellin

Onion Nursery raising - Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate. Land preparation/ Prepare land for sowing after rains. Procure healthy disease free seeds for **Broad bean/ Pea/** seed collection to French bean sowing. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. sowing At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet Appearance of new Mango flush in bearing away from the trunk or plant growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 trees litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water. Animal Sciences Name of bird/ animal Stage Disease/ Management Agro-meteorological advisories - Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next Poultry (Chicken/ All Deworming 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. Proper ventilation must be provided to protect excessive heat during day Care & management 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 (O2) tab twice daily for 5 days. Endo/ Ecto parasite or skin months of - Inject Neomac @ 1 ml/ 10 kg body weight. infection age Management - Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/dry bedding. Avoid dampness in sheds. - De-worming with suitable Anthelmatics against Faciolasis. Cattle Above 3 Fascioliasis 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. All age groups - Give Tolzan-F in association with vitamins like Livozyme twice daily. Goat Fascioliasis except three Endoparasite/ Deworm using Minthal bolus @ ½ bolus per 20 kg body weight months or Ectoparasite accompanied with Livozyme daily. below Fishery: Carp culture Pond and water Nurseries/ grow-Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month. out Broadcast Green AQ @2 litre/ha by mixing with water. Provide feed 2 times @ 5 % body weight per day. Feed Provide good feed having 30% crude protein fortified with vitamins and mineral. Fish 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. - Sampling of fish for growth, disease should be done regularly by netting. Duck 200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.







"Gramin Krishi Mausam Seva"

MANIPUR AGROMET ADVISORY BULLETIN

District: Thoubal

Past weather for the of Imphal West (9th and 10th October, 2019):

3.4 mm rainfall was observed during the past two days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 25.3-29.4 °C and minimum of 19.2-21.0 °C. Mean relative humidity of 91.0 % max & 63.5 % min was recorded in the past five days & average wind speed was 1.2-2.3 km/ hr.

Weather forecast for Thoubal (12th to 16th October, 2019):

E-mail: agromet_mnp@yahoo.co.uk

Likely to have no rains upto Wednesday. The sky will remain partly cloudy to mainly cloudy with max. temp. 28-29 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 99 % (max) & 82 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 11th October, 2019

- 1. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture and avoid loss of water from water bodies. Use water economically to ensure its availability in coming months.
- For the fields where rice had failed due to uneven distribution of rainfall during the growing season, cultivation of Blackgram (urad dal)/ Lentil (masoor dal)/ Green gram (moong dal)/ Lathyrus (kachari) may be done as contingency crop by the mid of November so as to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/ kg seeds before

sowing.			
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Flowering and		- Maintain water level of 5-8 cm in the crop field. Monitor insect pest
	Grain filling to		infestation. Weeding may be done.
	maturity	Rice false smut	Spray Propiconazole @ 2ml/ litre water or Kocide @ 5g/15lit water
			(spray after 2:00 pm only) to the crops in flowering stage.
		Blast	Spray Tricyclazole 75WP @ 9 g/ 15 L water or Hexaconazole @ 2ml/ L
			water.
		Brown Plant	Imidachloprid @ 7ml/ 15 litres of water.
		Hopper or any	
		sucking insect	
		Aphid, mealy	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres
		bugs	of water.
		Bacterial leaf	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per
		blight	sangam).
		Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water.
Soybean/	Pod formation to		- Monitor insect pest infestation. Weeding may be done proper
Groundnut/ Rice	maturity		utilization of nutrients and moisture by the crop and avoid insect pest.
Bean	1114041109		difference of numerous and moissant by the trop and avoid insect positi
Millet/ Blackgram	Vegetative	Hairy caterpillars	- Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days.
			- Weeding may be done at 30 days after sowing for proper utilization of
			nutrients and moisture by the crop and avoid insect pest.
Potato	Land preparation to		- Land preparation for planting potato may be done as soon as optimum
	planting		soil moisture for land preparation is attained. Ploughing and planking
			may be done to attain well pulverized and leveled seed bed. Apply 20-
			30tons of well decomposed FYM at least two weeks before planting.
			- Select healthy and pure seeds of high yielding variety, free from insect
			pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to
			50g tuber seeds may be planted at row to row spacing of 55-60cm and
			plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
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
Banana			De-suckering and earthing-up
			- Maintain three suckers (including mother plant). Uproot excess suckers.
			- Remove dried/ diseased or decayed leaves.
			- Earthing-up should be done to avoid water logging at the base of the
			plant.
			- Spray 0.3% Phosphamidon around the base of the plant against rhizome
			weevil and also Carbendazim 50% WP @ 2 g/lit of water as prophylactic
			measure against Anthracnose.

grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and

- Ofloxacine/ Ornidazole (O2) tab twice daily for 5 days.



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Coccidial infection





Onion Nursery raising - Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate. Land preparation/ Prepare land for sowing after rains. Procure healthy disease free seeds for **Broad bean/ Pea/** French bean seed collection to sowing. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. sowing At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet Appearance of new Mango away from the trunk or plant growth promoting rhizobium bacteria flush in bearing (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 trees litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water. Animal Sciences Name of bird/ animal Stage Disease/ Management Agro-meteorological advisories - Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next Poultry (Chicken/ All Deworming Duck) day with half the dose at regular interval of 3 weeks. susceptible 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. Proper ventilation must be provided to protect excessive heat during day Care & management time. Use water sanitizer in drinking water/potassium permangnate (few

	age	infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide
			ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	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	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
	except three	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight
	months or below	Ectoparasite	accompanied with Livozyme daily.
Fishery:			

mix it properly.

Fish	nery:
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Pig

Above 3

Carp culture	Nurseries/ grow-	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at $7.0 - 7.5$. Apply Lime @ 25-
	out		30kg/ ha every month.
			Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and
			mineral.
		Fish	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.
			- Sampling of fish for growth, disease should be done regularly by netting.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha
			pond.