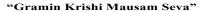


ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR AGROMET ADVISORY BULLETIN

District: Tamenglong

Past weather for the of Imphal West (1st to 3rd October, 2019):

22.3 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.3–29.0 °C and minimum of 20.0–21.2 °C. Mean relative humidity of 93.3 % max & 68.7 % min was recorded in the past three days & average wind speed was 1.7–2.6km/ hr.

Weather forecast for Tamenglong (5th to 9th October, 2019):

Likely to have widespread light rains from Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 27-31 °C & mini. temp. 22-23°C. Relative humidity may reach upto 99 % (max) & 79 % (min). The average wind speed may be 2-3 km/hr.

Date of issue: 4th October, 2019

- 1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
- 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 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	Dough stage to grain filling		 Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation. Weeding may be done. If required gap filling may be done.
		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 Nacla Black	sangam).
Soybean/	Pod formation to	Neck Blast	 Spray Tricyclazole 75% @ 10g/15 litres of water after rains. Monitor insect pest infestation.
Groundnut/ Rice Bean	maturity		
Millet/ Blackgram	Vegetative		- Monitor insect pest infestation.
Potato	Land preparation		 - Land preparation for planting potato in foothills and upland area may be done after rains. - 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
Cole Crops/ Onion	Nursery		- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Coriander may be sown after rains.
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.
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.
Mango	Appearance of new		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

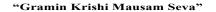




trees				(PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sciences	al Gran	D' / Mr		
Name of bird/ anima	- U	Disease/ Management		Agro-meteorological advisories
Poultry (Chicken/ 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
Pig	Above 3	Coccidial infect	ion	mix it properly. - Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
1 Ig	months of age	Endo/ Ecto parasi infection		- 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:				
	Nurseries/ grow- out	Pond and water	30k Bro	nintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-cg/ ha every month. Dadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Pro	ovide feed 2 times @ 5 % body weight per day. ovide good feed having 30% crude protein fortified with vitamins and meral.
		Fish	hec - St fee	r semi-intensive farming, 8000-10000 fingerlings can be stocked in one stare pond. tocking 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.
Fish Farming	In integrated Fish Farming Pig Abordance Pig Pig Pont Fold		Abopor fold	out 30-40 two months old pigs may be kept for fertilization of the one ha fish nd. 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 ovided once a week to avoid mineral deficiency.
	Duck		200 por	0-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha and.



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





MANIPUR AGROMET ADVISORY BULLETIN

District: Thoubal

Past weather for the of Imphal West (1st to 3rd October, 2019):

22.3 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $28.3–29.0~^{\circ}\text{C}$ and minimum of $20.0–21.2~^{\circ}\text{C}$. Mean relative humidity of 93.3~% max & 68.7~% min was recorded in the past three days & average wind speed was 1.7–2.6km/hr.

Weather forecast for Thoubal (5th to 9th October, 2019):

Likely to have widespread light rains from Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 27-29 °C & mini. temp. 22-24°C. Relative humidity may reach upto 98 % (max) & 86 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 4th October, 2019

- 1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
- 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 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	Dough stage to grain filling	Aphid, mealy bugs Bacterial leaf	- Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation Weeding may be done. If required gap filling may be done. Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water. 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 after rains.
Soybean/ Groundnut/ Rice Bean	Pod formation to maturity		- Monitor insect pest infestation.
Millet/ Blackgram	Vegetative		- Monitor insect pest infestation.
Potato	Land preparation		 - Land preparation for planting potato in foothills and upland area may be done after rains. - 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
Name of the crop Cole Crops/ Onion	Stage Nursery	Pest and disease	Agro-meteorological advisories - Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas.
Cole Crops/ Onion Carrot/ Radish/ Coriander	Nursery Sowing	Pest and disease	- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains.
Cole Crops/ Onion Carrot/ Radish/ Coriander Ginger/ Turmeric	Nursery Sowing Rhizome initiation stage	leaf blotch and leaf spot	- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains. - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.
Cole Crops/ Onion Carrot/ Radish/ Coriander	Nursery Sowing Rhizome initiation	leaf blotch and	- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains. - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after





trees				(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	al Gran	D' / Mr		
Name of bird/ anima	- U	Disease/ Management		Agro-meteorological advisories
Poultry (Chicken/ 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
Pig	Above 3	Coccidial infect	ion	mix it properly. - Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
1 Ig	months of age	Endo/ Ecto parasi infection		- 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:				
	Nurseries/ grow- out	Pond and water	30k Bro	nintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-cg/ ha every month. Dadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Pro	ovide feed 2 times @ 5 % body weight per day. ovide good feed having 30% crude protein fortified with vitamins and meral.
		Fish	hec - St fee	r semi-intensive farming, 8000-10000 fingerlings can be stocked in one stare pond. tocking 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.
Fish Farming	In integrated Fish Farming Pig Abordance Pig Pig Pont Fold		Abopor fold	out 30-40 two months old pigs may be kept for fertilization of the one ha fish nd. 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 ovided once a week to avoid mineral deficiency.
	Duck		200 por	0-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha and.





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"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Ukhrul

Past weather for the of Imphal West (1st to 3rd October, 2019): 22.3 mm rainfall was observed during the past three days. The skies

remained mainly cloudy to overcast. Maximum temperature ranged from 28.3-29.0 °C and minimum of 20.0-21.2 °C. Mean relative humidity of 93.3 % max & 68.7 % min was recorded in the past three days & average wind speed was 1.7-2.6km/ hr.

Weather forecast for Ukhrul (5th to 9th October, 2019):

Likely to have widespread light rains from Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 30-34 °C & mini. temp. 22-23°C. Relative humidity may reach upto 98 % (max) & 83 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 4th October, 2019

- 1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
- 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 to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/kg seeds before sowing

	November so to reduce	economic stress of f	armers. Treat seeds with Carbendazim@ 2g/kg seeds before sowing.
Field Crops	Ct	Dogt and discour	Agus mateausla-tail - Internita-
Name of the crop	Stage Dayah staga ta	Pest and disease	Agro-meteorological advisories Mointain vistor level of 5.9 cm in the grow field. Monitor insect root
Kharif Rice	Dough stage to		- Maintain water level of 5-8 cm in the crop field. Monitor insect pest
	grain filling		infestation.
			- Weeding may be done. If required gap filling may be done.
		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 after rains.
Soybean/	Pod formation to		- Monitor insect pest infestation.
Groundnut/ Rice	maturity		
Bean			
Millet/ Blackgram	Vegetative		- Monitor insect pest infestation.
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			<u> </u>
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole Crops/ Onion	Nursery		- Raise nurseries of Cole crops/ onion under low cost poly houses/
			temporary rain shelter areas.
Carrot/ Radish/	Sowing		Radish/ Carrot/ Coriander may be sown after rains.
Coriander			ř
Ginger/ Turmeric	Rhizome initiation		- Mulch the bed with paddy straw or green leaves especially leguminous
	stage		plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha
			leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains.
			- Mulching with leaves of Lantana camera is also useful for controlling
			shoot borer.
			- Pour cow-dung slurry or liquid manure to ensure microbial activity and
			nutrient availability.
			- Apply of Trichoderma along with bio-fertilizer (Azospirilium,
		1 611 1 1	Azotobacter and PSB, etc.).
		leaf blotch and	- To prevent occurrence/ spreading of leaf blotch and leaf spot, spray
		leaf spot	Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after
			rains.
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.
	sowing		
Mango	Appearance of new		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet
	flush in bearing		away from the trunk or plant growth promoting rhizobium bacteria
	trees		(PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10
	ucos		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.



 $\hbox{E-mail: agromet_mnp@yahoo.co.uk}$ ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004



"Gramin Krishi Mausam Seva"

Animal Sciences			
Name of bird/ ani	mal Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicke 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 si 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 age	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
	Man		- 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:			
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.
		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.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish
Fish Farming			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.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha
			pond.

(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 (1st to 3rd October, 2019):

22.3 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.3–29.0 °C and minimum of 20.0–21.2 °C. Mean relative humidity of 93.3 % max & 68.7 % min was recorded in the past three days & average wind speed was 1.7–2.6km/ hr.

Weather forecast for Bishnupur (5th to 9th October, 2019):

Likely to have widespread light rains from Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 29-30 °C & mini. temp. 22-24°C. Relative humidity may reach upto 99 % (max) & 89 % (min). The average wind speed may be 2-3 km/hr.

Date of issue: 4th October, 2019

- 1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
- 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 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	Dough stage to grain filling	Aphid, mealy bugs Bacterial leaf	- Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation Weeding may be done. If required gap filling may be done. Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water. 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 after rains.
Soybean/ Groundnut/ Rice Bean	Pod formation to maturity		- Monitor insect pest infestation.
Millet/ Blackgram	Vegetative		- Monitor insect pest infestation.
Potato	Land preparation		 - Land preparation for planting potato in foothills and upland area may be done after rains. - 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
Name of the crop Cole Crops/ Onion	Stage Nursery	Pest and disease	Agro-meteorological advisories - Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas.
Cole Crops/ Onion Carrot/ Radish/ Coriander	Nursery Sowing	Pest and disease	- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains.
Cole Crops/ Onion Carrot/ Radish/ Coriander Ginger/ Turmeric	Nursery Sowing Rhizome initiation stage	leaf blotch and leaf spot	- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains. - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.
Cole Crops/ Onion Carrot/ Radish/ Coriander	Nursery Sowing Rhizome initiation	leaf blotch and	- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains. - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after

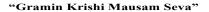




trees				(PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sciences	al Gran	D' / Mr		
Name of bird/ anima	- U	Disease/ Management		Agro-meteorological advisories
Poultry (Chicken/ 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
Pig	Above 3	Coccidial infect	ion	mix it properly. - Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
1 Ig	months of age	Endo/ Ecto parasi infection		- 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:				
	Nurseries/ grow- out	Pond and water	30k Bro	nintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-cg/ ha every month. Dadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Pro	ovide feed 2 times @ 5 % body weight per day. ovide good feed having 30% crude protein fortified with vitamins and meral.
		Fish	hec - St fee	r semi-intensive farming, 8000-10000 fingerlings can be stocked in one stare pond. tocking 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.
Fish Farming	In integrated Fish Farming Pig Abordance Pig Pig Pont Fold		Abopor fold	out 30-40 two months old pigs may be kept for fertilization of the one ha fish nd. 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 ovided once a week to avoid mineral deficiency.
	Duck		200 por	0-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha and.



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 (1st to 3rd October, 2019):

22.3 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $28.3–29.0~^{\circ}\text{C}$ and minimum of $20.0–21.2~^{\circ}\text{C}$. Mean relative humidity of 93.3~% max & 68.7~% min was recorded in the past three days & average wind speed was 1.7–2.6km/hr.

Weather forecast for Chandel (5th to 9th October, 2019):

Likely to have widespread light rains from Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 30-35 $^{\circ}\text{C}$ & mini. temp. 22-24 $^{\circ}\text{C}$. Relative humidity may reach upto 98 % (max) & 83 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 4th October, 2019

- 1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
- 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 to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/kg seeds before sowing.

Field Crops			armers. Treat seeds with Carbendazim@ 2g/ kg seeds before sowing.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Dough stage to grain filling		 Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation. Weeding may be done. If required gap filling may be done.
		Aphid, mealy bugs Bacterial leaf	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		blight	Spray Streptocycline @ 1g/15 litres of water (at least 5-6 pumps per sangam).
Soybean/ Groundnut/ Rice Bean	Pod formation to maturity	Neck Blast	 Spray Tricyclazole 75% @ 10g/15 litres of water after rains. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative		- Monitor insect pest infestation.
Potato	Land preparation		 Land preparation for planting potato in foothills and upland area may be done after rains. 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
Cole Crops/ Onion	Nursery		- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains.
Carrot/ Radish/	, and the second	leaf blotch and leaf spot	- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains. - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray
Carrot/ Radish/ Coriander Ginger/ Turmeric Broad bean/ Pea/	Sowing Rhizome initiation stage Land preparation/		- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains. - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains. Prepare land for sowing after rains. Procure healthy disease free seeds for
Carrot/ Radish/ Coriander Ginger/ Turmeric	Sowing Rhizome initiation stage		- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains. - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.





trees				(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	al Gran	D' / Mr		
Name of bird/ anima	- U	Disease/ Management		Agro-meteorological advisories
Poultry (Chicken/ 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
Pig	Above 3	Coccidial infect	ion	mix it properly. - Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
1 Ig	months of age	Endo/ Ecto parasi infection		- 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:				
	Nurseries/ grow- out	Pond and water	30k Bro	nintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-cg/ ha every month. Dadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Pro	ovide feed 2 times @ 5 % body weight per day. ovide good feed having 30% crude protein fortified with vitamins and meral.
		Fish	hec - St fee	r semi-intensive farming, 8000-10000 fingerlings can be stocked in one stare pond. tocking 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.
Fish Farming	In integrated Fish Farming Pig Abordance Pig Pig Pont Fold		Abopor fold	out 30-40 two months old pigs may be kept for fertilization of the one ha fish nd. 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 ovided once a week to avoid mineral deficiency.
	Duck		200 por	0-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha and.





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Manipur Centre, Lamphelpat, Imphal - 795 004
"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Churachandpur

Past weather for the of Imphal West (1st to 3rd October, 2019):

22.3 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $28.3–29.0~^{\circ}\text{C}$ and minimum of $20.0–21.2~^{\circ}\text{C}$. Mean relative humidity of 93.3~% max & 68.7~% min was recorded in the past three days & average wind speed was 1.7–2.6km/hr.

Weather forecast for Churachandpur (5th to 9th October, 2019):

Likely to have widespread light rains from Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 28-32 °C & mini. temp. 22-24°C. Relative humidity may reach upto 99 % (max) & 90 % (min). The average wind speed may be 2-3 km/hr.

Date of issue: 4th October, 2019

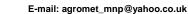
- 1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
- 2. For the fields where rice had failed due to uneven distribution of rainfall during 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 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	Dough stage to grain filling		 Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation. Weeding may be done. If required gap filling may be done.
		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 after rains.
Soybean/ Groundnut/ Rice Bean	Pod formation to maturity		- Monitor insect pest infestation.
Millet/ Blackgram	Vegetative		- Monitor insect pest infestation.
Potato	Land preparation		 Land preparation for planting potato in foothills and upland area may be done after rains. 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
Cole Crops/ Onion	Nursery		- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Coriander may be sown after rains.
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.
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.
Mango	Appearance of new flush in bearing		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





trees				(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	al Gran	D' / Mr		
Name of bird/ anima	- U	Disease/ Management		Agro-meteorological advisories
Poultry (Chicken/ 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
Pig	Above 3	Coccidial infect	ion	mix it properly. - Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
1 Ig	months of age	Endo/ Ecto parasi infection		- 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:				
	Nurseries/ grow- out	Pond and water	30k Bro	nintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-cg/ ha every month. Dadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Pro	ovide feed 2 times @ 5 % body weight per day. ovide good feed having 30% crude protein fortified with vitamins and meral.
		Fish	hec - St fee	r semi-intensive farming, 8000-10000 fingerlings can be stocked in one stare pond. tocking 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.
Fish Farming	In integrated Fish Farming Pig Abordance Pig Pig Pont Fold		Abopor fold	out 30-40 two months old pigs may be kept for fertilization of the one ha fish nd. 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 ovided once a week to avoid mineral deficiency.
	Duck		200 por	0-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha and.





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"Gramin Krishi Mausam Seva"

MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal East

Past weather for the of Imphal West (1st to 3rd October, 2019):

22.3 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.3-29.0 °C and minimum of 20.0-21.2 °C. Mean relative humidity of 93.3 % max & 68.7 % min was recorded in the past three days & average wind speed was 1.7-2.6km/ hr.

Weather forecast for Imphal East (5th to 9th October, 2019):

Likely to have widespread light rains from Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 29-32 °C & mini. temp. 22-23°C. Relative humidity may reach upto 97 % (max) & 56 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 4th October, 2019

- 1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
- 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 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	Dough stage to grain filling		 Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation. Weeding may be done. If required gap filling may be done. 	
		Aphid, mealy	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres	
		Bacterial leaf	of water. 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 after rains.	
Soybean/ Groundnut/ Rice Bean	Pod formation to maturity		- Monitor insect pest infestation.	
Millet/ Blackgram	Vegetative		- Monitor insect pest infestation.	
Potato	Land preparation		 - Land preparation for planting potato in foothills and upland area may be done after rains. - 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	
Cole Crops/ Onion	Nursery		- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas.	
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Coriander may be sown after rains.	
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains. 	
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.	
Mango	Appearance of new flush in bearing		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	





	trees			(PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1 kg 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/ anim		Diagogo/ Monogom	ont	A grap metaconal colorida
Poultry (Chicket Duck)	0	Disease/ Management Deworming Coccidiosis		Agro-meteorological advisories - 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			- 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 skin infection		- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	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			- 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	30 Br		intain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-cg/ ha every month. badcast Green AQ @2 litre/ha by mixing with water.
		Feed	Pro	wide feed 2 times @ 5 % body weight per day. wide good feed having 30% crude protein fortified with vitamins and meral.
		Fish	hec - St feed	r semi-intensive farming, 8000-10000 fingerlings can be stocked in one stare pond. stocking 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 Pig Duck			Abo pon folc pro	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.
			200 pon	0-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha and.



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



"Gramin Krishi Mausam Seva"

MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal West

Past weather for the of Imphal West (1st to 3rd October, 2019):

22.3 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 28.3–29.0 °C and minimum of 20.0–21.2 °C. Mean relative humidity of 93.3 % max & 68.7 % min was recorded in the past three days & average wind speed was 1.7–2.6km/hr.

Weather forecast for Imphal West (5th to 9th October, 2019):

Likely to have widespread light rains from Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 29-32 °C & mini. temp. 22-23°C. Relative humidity may reach upto 97 % (max) & 56 % (min). The average wind speed may be 3-4 km/hr.

Date of issue: 4th October, 2019

- 1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
- 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 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	Dough stage to grain filling	Aphid, mealy bugs Bacterial leaf	 - Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation. - Weeding may be done. If required gap filling may be done. Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water. 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 after rains.
Soybean/ Groundnut/ Rice Bean	Pod formation to maturity		- Monitor insect pest infestation.
Millet/ Blackgram	Vegetative		- Monitor insect pest infestation.
Potato	Land preparation		 - Land preparation for planting potato in foothills and upland area may be done after rains. - 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
Cole Crops/ Onion	Stage Nursery	Pest and disease	- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas.
Cole Crops/ Onion Carrot/ Radish/ Coriander	Nursery Sowing	Pest and disease	- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains.
Cole Crops/ Onion Carrot/ Radish/ Coriander Ginger/ Turmeric	Nursery Sowing Rhizome initiation stage	leaf blotch and leaf spot	- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains. - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.
Cole Crops/ Onion Carrot/ Radish/ Coriander	Nursery Sowing Rhizome initiation	leaf blotch and	- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas. Radish/ Carrot/ Coriander may be sown after rains. - Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. - Mulching with leaves of Lantana camera is also useful for controlling shoot borer. - Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. - Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.). - To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after

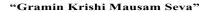




	trees			(PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1 kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sciences Name of bird/ anim		Diagogo/ Monogom	ont	A grap metaconal colorida
Poultry (Chicket Duck)	0	Disease/ Management Deworming Coccidiosis		Agro-meteorological advisories - 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			- 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 skin infection		- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	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			- 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	30 Br		intain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-cg/ ha every month. badcast Green AQ @2 litre/ha by mixing with water.
		Feed	Pro	wide feed 2 times @ 5 % body weight per day. wide good feed having 30% crude protein fortified with vitamins and meral.
		Fish	hec - St feed	r semi-intensive farming, 8000-10000 fingerlings can be stocked in one stare pond. stocking 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 Pig Duck			Abo pon folc pro	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.
			200 pon	0-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha and.



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





MANIPUR AGROMET ADVISORY BULLETIN

District: Senapati

Past weather for the of Imphal West (1st to 3rd October, 2019):

22.3 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from $28.3–29.0~^{\circ}\text{C}$ and minimum of $20.0–21.2~^{\circ}\text{C}$. Mean relative humidity of 93.3~% max & 68.7~% min was recorded in the past three days & average wind speed was 1.7–2.6km/hr.

Weather forecast for Senapati (5th to 9th October, 2019):

Likely to have widespread light rains from Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 28-30 $^{\circ}C$ & mini. temp. 23-24 $^{\circ}C$. Relative humidity may reach upto 99 % (max) & 85 % (min). The average wind speed may be 3 km/hr.

Date of issue: 4th October, 2019

- 1. Harvest rain water. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid inter-culture operations and insect pest control sprays during rainy days.
- 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 to reduce economic stress of farmers. Treat seeds with Carbendazim@ 2g/kg seeds before sowing.

Field Crops			farmers. Treat seeds with Carbendazim@ 2g/ kg seeds before sowing.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Dough stage to grain filling		 Maintain water level of 5-8 cm in the crop field. Monitor insect per infestation. Weeding may be done. If required gap filling may be done.
		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).
G	~	Neck Blast	- Spray Tricyclazole 75% @ 10g/15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Pod formation to maturity		- Monitor insect pest infestation.
Millet/ Blackgram	Vegetative		- Monitor insect pest infestation.
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
Cole Crops/ Onion	Nursery		- Raise nurseries of Cole crops/ onion under low cost poly houses/ temporary rain shelter areas.
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Coriander may be sown after rains.
Ginger/ Turmeric	Rhizome initiation stage	leaf blotch and leaf spot	 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ Sangam after rains. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply of Trichoderma along with bio-fertilizer (Azospirilium Azotobacter and PSB, etc.). To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.
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.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1½ 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.



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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	mal Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicke 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 si 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 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	Endoparasite/	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight
	months or below	Ectoparasite	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.
		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.
	7.		- Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish
Fish Farming			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.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha
			pond.

(I. Meghachandra Singh) Nodal Officer, GKMS