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# MANIPUR AGROMET ADVISORY BULLETIN

District:	Tamenglong	
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**Date of issue:** 1<sup>st</sup> October, 2019

Past weather for the of Imphal West (27 <sup>th</sup> to 30 <sup>th</sup> September, 2019):	Weather forecast for Tamenglong (2 <sup>nd</sup> to 6 <sup>th</sup> October, 2019):
19.5 mm rainfall was observed during the past four days. The skies	Likely to have widespread light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged	remain partly cloudy to mainly cloudy max. temp. 29-32 °C &
from 28.0-30.0 °C and minimum of 19.5-20.6 °C. Mean relative	mini. temp. 22-23°C. Relative humidity may reach upto 100 %
humidity of 92.3 % max & 60.0 % min was recorded in the past four	(max) & 75 % (min). The average wind speed may be 2-3 km/hr.
days.	

- 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	<ul> <li>Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> <li>Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres</li> </ul>
		bugs	of water.
		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		<ul> <li>Land preparation for planting potato in foothills and upland area may be done after rains.</li> <li>Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.</li> </ul>
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	<ul> <li>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.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>
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 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



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

"Gramin Krishi Mausam Seva"



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				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		1		
Name of bird/ anima	l Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Deworm	ning	- 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	Coccidio	osis	- 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 <sub>2</sub> ) tab twice daily for 5 days.
U .	months of age	Endo/ Ecto parasite or skin infection		
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Fasciolia	asis	- 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).
		Manager	ment	- Provide wholesome water.
				- Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups	Fasciolia	asis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
	except three	Endopara	asite/	Deworm using Minthal bolus @ 1/2 bolus per 20 kg body weight
months or below		Ectoparasite		accompanied with Livozyme daily.
Fishery:				
	Carp culture Nurseries/ grow- out			Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$ . Apply Lime @ 25-30kg/ ha every month.
		End		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	Pig			About 30-40 two months old pigs may be kept for fertilization of the one ha fish
Fish Farming	6			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.

"Gramin Krishi Mausam Seva"



# MANIPUR AGROMET ADVISORY BULLETIN

District:	Thoubal
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**Date of issue:** 1<sup>st</sup> October, 2019

Past weather for the of Imphal West (27 <sup>th</sup> to 30 <sup>th</sup> September, 2019):	Weather forecast for Thoubal (2 <sup>nd</sup> to 6 <sup>th</sup> October, 2019):
19.5 mm rainfall was observed during the past four days. The skies	Likely to have widespread light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged	remain partly cloudy to mainly cloudy max. temp. 31-34 °C &
from 28.0-30.0 °C and minimum of 19.5-20.6 °C. Mean relative	mini. temp. 22-23°C. Relative humidity may reach upto 99 %
humidity of 92.3 % max & 60.0 % min was recorded in the past four	(max) & 89 % (min). The average wind speed may be 2-4 km/hr.
days.	

- 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		<ul> <li>Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		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		<ul> <li>Land preparation for planting potato in foothills and upland area may be done after rains.</li> <li>Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.</li> </ul>
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			Ŭ Ž I
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	<ul> <li>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.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>
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 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



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				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		1		
Name of bird/ anima	l Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Deworm	ning	- 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	Coccidio	osis	- 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 <sub>2</sub> ) tab twice daily for 5 days.
U .	months of age	Endo/ Ecto parasite or skin infection		
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Fasciolia	asis	- 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).
		Manager	ment	- Provide wholesome water.
				- Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups	Fasciolia	asis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
	except three	Endopara	asite/	Deworm using Minthal bolus @ 1/2 bolus per 20 kg body weight
months or below		Ectoparasite		accompanied with Livozyme daily.
Fishery:				
	Carp culture Nurseries/ grow- out			Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$ . Apply Lime @ 25-30kg/ ha every month.
		End		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	Pig			About 30-40 two months old pigs may be kept for fertilization of the one ha fish
Fish Farming	6			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.

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# MANIPUR AGROMET ADVISORY BULLETIN

District. Ontifut	District:	Ukhrul
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**Date of issue:** 1<sup>st</sup> October, 2019

Past weather for the of Imphal West (27 <sup>th</sup> to 30 <sup>th</sup> September, 2019):	Weather forecast for Ukhrul (2 <sup>nd</sup> to 6 <sup>th</sup> October, 2019):
19.5 mm rainfall was observed during the past four days. The skies	Likely to have widespread light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged	remain partly cloudy to mainly cloudy max. temp. 31-33 °C &
from 28.0-30.0 °C and minimum of 19.5-20.6 °C. Mean relative	mini. temp. 22-23°C. Relative humidity may reach upto 99 %
humidity of 92.3 % max & 60.0 % min was recorded in the past four	(max) & 76 % (min). The average wind speed may be 3-4 km/hr.
days.	

- 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	<ul> <li>Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> <li>Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres</li> </ul>
		bugs	of water.
		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	<ul> <li>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.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>
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 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.

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



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"Gramin Krishi Mausam Seva"

Animal Sciences					
Name of bird/ ani	mal St	age	Disease/ Managem	ent	Agro-meteorological advisories
Poultry (Chicke	n/ All		Deworming		- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
Duck) susceptible				day with half the dose at regular interval of 3 weeks.	
	age gr	oups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit
					of water.
					- Give green grasses sufficiently & mix with ground maize/ rice bran.
Care &		Care & management	nt	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		Coccidial infection		- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	month age	ns of	Endo/ Ecto parasite or infection	r skin	- 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		Fascioliasis		- De-worming with suitable Anthelmatics against Faciolasis.
	month	ns 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		e groups	Fascioliasis		- Give Tolzan-F in association with vitamins like Livozyme twice daily.
	except months		Endoparasite/		Deworm using Minthal bolus @ 1/2 bolus per 20 kg body weight
	below	5 01	Ectoparasite		accompanied with Livozyme daily.
Fishery:	0010 //				
Carp culture	Nurseries/	grow-	Pond and water	Mai	intain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-
Ţ.	out	U			g/ ha every month.
					adcast Green AQ @2 litre/ha by mixing with water.
			Feed		vide feed 2 times @ 5 % body weight per day.
					vide good feed having 30% crude protein fortified with vitamins and
				min	neral.
			Fish	For	semi-intensive farming, 8000-10000 fingerlings can be stocked in one
					tare pond.
					ocking ratio may be maintained at 40% of surface feeder, 30% column
				der and 30% bottom feeder.	
					ampling of fish for growth, disease should be done regularly by netting.
In integrated	Pig				out 30-40 two months old pigs may be kept for fertilization of the one ha fish
Fish Farming					d. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal
					ler is also provided. Grass with interlocked soil in the root system (sod) is
	-				vided once a week to avoid mineral deficiency.
	Duck				0-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha
				pon	id.

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

"Gramin Krishi Mausam Seva"



## **MANIPUR AGROMET ADVISORY BULLETIN**

District:	Bishnupur
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Date of issue: 1st October, 2019

Past weather for the of Imphal West (27 <sup>th</sup> to 30 <sup>th</sup> September, 2019):	Weather forecast for Bishnupur (2 <sup>nd</sup> to 6 <sup>th</sup> October, 2019):
<b>19.5 mm</b> rainfall was observed during the past four days. The skies	Likely to have widespread light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged	remain partly cloudy to mainly cloudy max. temp. 30-34 °C &
from 28.0-30.0 °C and minimum of 19.5-20.6 °C. Mean relative	mini. temp. 22-24°C. Relative humidity may reach upto 100 %
humidity of 92.3 % max & 60.0 % min was recorded in the past four	(max) & 86 % (min). The average wind speed may be 1-3 km/hr.
days.	

- 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		<ul> <li>Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>	
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.	
		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		<ul> <li>Land preparation for planting potato in foothills and upland area may be done after rains.</li> <li>Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.</li> </ul>	
Seed storage	Post-harvest Management		<ul> <li>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.</li> <li>Check for moisture content or weight of charcoal and dry if required.</li> </ul>	
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	<ul> <li>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.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>	
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 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 + 1 kg of live	



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				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		1		
Name of bird/ anima	l Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible			- 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	Coccidio	osis	- 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	Coccidia	l infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
U .	months of age	Endo/ Ect infection	to parasite or ski	
		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	Deworm	ing	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 @ 1/2 bolus per 20 kg body weight
months or below		Ectoparasite		accompanied with Livozyme daily.
Fishery:				
	Nurseries/ grow- out	Pond and		Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$ . Apply Lime @ 25-30kg/ ha every month.
		End		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				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.	

"Gramin Krishi Mausam Seva"



# MANIPUR AGROMET ADVISORY BULLETIN

District:	Chandel
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**Date of issue:** 1<sup>st</sup> October, 2019

Past weather for the of Imphal West (27 <sup>th</sup> to 30 <sup>th</sup> September, 2019):	Weather forecast for Chandel (2 <sup>nd</sup> to 6 <sup>th</sup> October, 2019):
19.5 mm rainfall was observed during the past four days. The skies	Likely to have widespread light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged	remain partly cloudy to mainly cloudy max. temp. 32-34 °C &
from 28.0-30.0 °C and minimum of 19.5-20.6 °C. Mean relative	mini. temp. 22-24°C. Relative humidity may reach upto 98 %
humidity of 92.3 % max & 60.0 % min was recorded in the past four	(max) & 79 % (min). The average wind speed may be 2-4 km/hr.
days.	

- 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		<ul> <li>Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>	
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.	
		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		<ul> <li>Land preparation for planting potato in foothills and upland area may be done after rains.</li> <li>Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.</li> </ul>	
Seed storage	Post-harvest Management		<ul> <li>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.</li> <li>Check for moisture content or weight of charcoal and dry if required.</li> </ul>	
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	<ul> <li>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.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>	
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 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	



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

"Gramin Krishi Mausam Seva"



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				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		1		
Name of bird/ anima	l Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible			- 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	Coccidio	osis	- 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	Coccidia	l infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
U .	months of age	Endo/ Ect infection	to parasite or ski	
		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	Deworm	ing	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 @ 1/2 bolus per 20 kg body weight
months or below		Ectoparasite		accompanied with Livozyme daily.
Fishery:				
	Nurseries/ grow- out	Pond and		Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$ . Apply Lime @ 25-30kg/ ha every month.
		End		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				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.	

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## MANIPUR AGROMET ADVISORY BULLETIN

## District: Churachandpur

Date of issue: 1st October, 2019

Past weather for the of Imphal West (27 <sup>th</sup> to 30 <sup>th</sup> September, 2019):	Weather forecast for Churachandpur (2 <sup>nd</sup> to 6 <sup>th</sup> October, 2019):
<b>19.5 mm</b> rainfall was observed during the past four days. The skies	Likely to have widespread light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged	remain partly cloudy to mainly cloudy max. temp. 30-34 °C &
from 28.0-30.0 °C and minimum of 19.5-20.6 °C. Mean relative	mini. temp. 22-24°C. Relative humidity may reach upto 99 %
humidity of 92.3 % max & 60.0 % min was recorded in the past four	(max) & 71 % (min). The average wind speed may be 2-3 km/hr.
days.	

- 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		<ul> <li>Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>	
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.	
		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		<ul> <li>Land preparation for planting potato in foothills and upland area may be done after rains.</li> <li>Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.</li> </ul>	
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	
<b>Cole Crops/ Onion</b>	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	<ul> <li>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.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>	
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 1 $\frac{1}{2}$ 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 + 1 kg of live	





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

"Gramin Krishi Mausam Seva"



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				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		1		
Name of bird/ anima	l Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible			- 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	Coccidio	osis	- 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	Coccidia	l infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
U .	months of age	Endo/ Ect infection	to parasite or ski	
		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	Deworm	ing	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 @ 1/2 bolus per 20 kg body weight
months or below		Ectoparasite		accompanied with Livozyme daily.
Fishery:				
	Nurseries/ grow- out	Pond and		Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$ . Apply Lime @ 25-30kg/ ha every month.
		End		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				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.	

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# MANIPUR AGROMET ADVISORY BULLETIN

District: Impha	l East
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Date of issue: 1st October, 2019

Past weather for the of Imphal West (27 <sup>th</sup> to 30 <sup>th</sup> September, 2019):	Weather forecast for Imphal East (2 <sup>nd</sup> to 6 <sup>th</sup> October, 2019):
<b>19.5 mm</b> rainfall was observed during the past four days. The skies	Likely to have widespread light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged	remain partly cloudy to mainly cloudy max. temp. 31-32 °C &
from 28.0-30.0 °C and minimum of 19.5-20.6 °C. Mean relative	mini. temp. 22-23°C. Relative humidity may reach upto 98 %
humidity of 92.3 % max & 60.0 % min was recorded in the past four	(max) & 75 % (min). The average wind speed may be 3-4 km/hr.
days.	

- 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		<ul> <li>Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		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		<ul> <li>Land preparation for planting potato in foothills and upland area may be done after rains.</li> <li>Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.</li> </ul>
Seed storage	Post-harvest Management		<ul> <li>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.</li> <li>Check for moisture content or weight of charcoal and dry if required.</li> </ul>
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	<ul> <li>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.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>
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 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 + 1 kg of live



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

"Gramin Krishi Mausam Seva"



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				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		1		
Name of bird/ anima	l Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Deworm	ning	- 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	Coccidia	l infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
U .	months of age	Endo/ Ect infection	to parasite or ski	
		Manager	ment	- 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	Deworm	ing	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
	age			1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).
		Manager	ment	- Provide wholesome water.
				- Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups	Fasciolia	asis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
	except three	Endopara	asite/	Deworm using Minthal bolus @ 1/2 bolus per 20 kg body weight
	months or below	Ectoparasite		accompanied with Livozyme daily.
Fishery:				
	Nurseries/ grow- out	Pond and		Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$ . Apply Lime @ 25-30kg/ ha every month.
		End		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 Pig Ab			About 30-40 two months old pigs may be kept for fertilization of the one ha fish	
				pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal
				folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
]	Duck			200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Imp	hal West	
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Date of issue: 1 <sup>st</sup> October, 2019	)
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E-mail: agromet\_mnp@yahoo.co.uk

Past weather for the of Imphal West (27 <sup>th</sup> to 30 <sup>th</sup> September, 2019):	Weather forecast for Imphal West (2 <sup>nd</sup> to 6 <sup>th</sup> October, 2019):
19.5 mm rainfall was observed during the past four days. The skies	Likely to have widespread light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged	remain partly cloudy to mainly cloudy max. temp. 29-32 °C &
from 28.0-30.0 °C and minimum of 19.5-20.6 °C. Mean relative	mini. temp. 22-24°C. Relative humidity may reach upto 98 %
humidity of 92.3 % max & 60.0 % min was recorded in the past four	(max) & 57 % (min). The average wind speed may be 3-4 km/hr.
days.	

- 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		<ul> <li>Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.
		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		<ul> <li>Land preparation for planting potato in foothills and upland area may be done after rains.</li> <li>Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.</li> </ul>
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	<ul> <li>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.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>
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 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







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

"Gramin Krishi Mausam Seva"



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				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		1		
Name of bird/ anima	l Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Deworm	ning	- 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	Coccidia	l infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
U .	months of age	Endo/ Ect infection	to parasite or ski	
		Manager	ment	- 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	Deworm	ing	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
	age			1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).
		Manager	ment	- Provide wholesome water.
				- Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups	Fasciolia	asis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
	except three	Endopara	asite/	Deworm using Minthal bolus @ 1/2 bolus per 20 kg body weight
	months or below	Ectoparasite		accompanied with Livozyme daily.
Fishery:				
	Nurseries/ grow- out	Pond and		Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$ . Apply Lime @ 25-30kg/ ha every month.
		End		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 Pig Ab			About 30-40 two months old pigs may be kept for fertilization of the one ha fish	
				pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal
				folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
]	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:	Senapati
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**Date of issue:** 1<sup>st</sup> October, 2019

Past weather for the of Imphal West (27 <sup>th</sup> to 30 <sup>th</sup> September, 2019):	Weather forecast for Senapati (2 <sup>nd</sup> to 6 <sup>th</sup> October, 2019):
19.5 mm rainfall was observed during the past four days. The skies	Likely to have widespread light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged	remain partly cloudy to mainly cloudy max. temp. 30-33 °C &
from 28.0-30.0 °C and minimum of 19.5-20.6 °C. Mean relative	mini. temp. 22-23°C. Relative humidity may reach upto 99 %
humidity of 92.3 % max & 60.0 % min was recorded in the past four	(max) & 80 % (min). The average wind speed may be 3 km/hr.
days.	

- 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		<ul><li>Maintain water level of 5-8 cm in the crop field. Monitor insect pest infestation.</li><li>Weeding may be done. If required gap filling may be done.</li></ul>	
		Aphid, mealy bugs	Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7ml/ 15litres of water.	
		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	<ul> <li>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.</li> <li>Mulching with leaves of Lantana camera is also useful for controlling shoot borer.</li> <li>Pour cow-dung slurry or liquid manure to ensure microbial activity and nutrient availability.</li> <li>Apply of Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).</li> <li>To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mancozeb @ 2g/ litre of water at 7-10 days interval after rains.</li> </ul>	
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 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.	

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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/ anim	nal Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicker Duck)	All susceptible	Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
age groups		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			- Give green grasses sufficiently & mix with ground maize/ rice bran.
		Care & management	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3	Coccidial infection	- Ofloxacine/ Ornidazole $(O_2)$ tab twice daily for 5 days.
U U	months of age	Endo/ Ecto parasite or sk infection	
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	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	<ul> <li>Provide wholesome water.</li> <li>Give Amoxyline/ Salbactum or any antibiotic for 5 days.</li> </ul>
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 @ <sup>1</sup> / <sub>2</sub> bolus per 20 kg body weight accompanied with Livozyme daily.
Fishery:	below		
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.
In integrated Pig Ab			About 30-40 two months old pigs may be kept for fertilization of the one ha fish
			pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal
			folder is also provided. Grass with interlocked soil in the root system (sod) is
	D 1		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.
			pona.