"Gramin Krishi Mausam Seva"



Date of issue: 24<sup>th</sup> September, 2019

## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Ukhrul	
Past weather for the of Imphal West (20 <sup>th</sup> to 23 <sup>rd</sup> Sept, 2019):	Weather forecast for Ukhrul (25 <sup>th</sup> to 29 <sup>th</sup> Sept, 2019):
104.0 mm rainfall was observed during the past four days. The skies	Likely to have scattered light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged from	remain partly cloudy to mainly cloudy max. temp. 30-32 °C &
26.8-31.9 °C and minimum of 20.4-22.0 °C. Mean relative humidity of	mini. temp. 24-25°C. Relative humidity may reach upto 99 %
93.0 % max & 71.8 % min was recorded in the past four days & average	(max) & 87 % (min). The average wind speed may be 3-4
wind speed was 1.6–3.1km/ hr.	km/hr.

- **1.** Harvest rain water during rainy days.
- 2. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid water logging.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initia flowering	ation to		<ul> <li>Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>
Soybean/ Groundnut/ Rice Bean	Fruiting/ peg	gging		- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative			- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Seed storage	Post-harvest Managemen			<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. 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
Cabbage/ Broccoli/ Cauliflower Broad bean/ Pea/	Nursery (late         Land prepara			<ul> <li>Nursery site should be fertile and well drained. Avoid water logging.</li> <li>For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet.</li> <li>Roof may be made up of polythene/ tin/ paddy straw as per convenience.</li> <li>Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.</li> <li>Prepare land for sowing after rains. Procure healthy disease free seeds for</li> </ul>
French bean	seed collection to sowing			sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above age/ Bearing	plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Turmeric	Rhizome ini	tiation	Soil nutrition management	<ul> <li>Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains.</li> <li>Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.</li> </ul>
Animal Sciences	<u> </u>			
Name of bird/ animal Poultry (Chicken/ Duck)	Stage All susceptible	Dewor	ase/ Management ming	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 Coccid		iosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			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	Coccid	ial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of	Endo/ E	cto parasite or skin	- Inject Neomac @ 1 ml/ 10 kg body weight.

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"



	age	infection			
	-	Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide	
				ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Fascioliasis		- De-worming with suitable Anthelmatics against Faciolasis.	
	months of	Deworming		Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @	
	age			1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).	
		Management		- Provide wholesome water.	
				- Give Amoxyline/ Salbactum or any antibiotic for 5 days.	
Goat	All age groups	Fascioliasis		- Give Tolzan-F in association with vitamins like Livozyme twice daily.	
	except three	Endoparasite/		Deworm using Minthal bolus @ 1/2 bolus per 20 kg body weight	
	months or below	Ectoparasite		accompanied with Livozyme daily.	
Fishery:	·				
Carp culture	Nurseries/ grow-	Pond and water		tain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-	
	out			/ ha every month.	
				dcast Green AQ @2 litre/ha by mixing with water.	
		Feed	Provide feed 2 times @ 5 % body weight per day.		
			Provi miner	ide good feed having 30% crude protein fortified with vitamins and	
		Fish		emi-intensive farming, 8000-10000 fingerlings can be stocked in one	
				hectare pond.	
				cking ratio may be maintained at 40% of surface feeder, 30% column	
				er and 30% bottom feeder.	
			- Sam	npling of fish for growth, disease should be done regularly by netting.	
In integrated	Pig		Abou	at 30-40 two months old pigs may be kept for fertilization of the one ha fish	
Fish Farming				. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal	
				r is also provided. Grass with interlocked soil in the root system (sod) is	
				ided once a week to avoid mineral deficiency.	
	Duck		200-4	400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha	
			pond.		

"Gramin Krishi Mausam Seva"



Date of issue: 24<sup>th</sup> September, 2019

## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Bishnupur	
Past weather for the of Imphal West (20 <sup>th</sup> to 23 <sup>rd</sup> Sept, 2019):	Weather forecast for Bishnupur (25 <sup>th</sup> to 29 <sup>th</sup> Sept, 2019):
104.0 mm rainfall was observed during the past four days. The skies	Likely to have scattered light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged from	remain partly cloudy to mainly cloudy max. temp. 32-33 °C &
26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of	mini. temp. 24-25°C. Relative humidity may reach upto 99 %
93.0 % max & 71.8 % min was recorded in the past four days & average	(max) & 90 % (min). The average wind speed may be 2-7
wind speed was 1.6–3.1km/ hr.	km/hr.

- **1.** Harvest rain water during rainy days.
- 2. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid water logging.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initia flowering	ation to		<ul> <li>Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>
Soybean/ Groundnut/ Rice Bean	Fruiting/ peg	gging		- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative			- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Potato	Land prepara	ation		<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. 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
Cabbage/ Broccoli/ Cauliflower Broad bean/ Pea/ French bean Tree bean Turmeric	Land prepara seed collections Trees above age/ Bearing Rhizome init	ation/ on to 7yrs plants	Soil nutrition management	<ul> <li>Nursery site should be fertile and well drained. Avoid water logging.</li> <li>For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet.</li> <li>Roof may be made up of polythene/ tin/ paddy straw as per convenience.</li> <li>Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.</li> <li>Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.</li> <li>Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains.</li> <li>Drain out excess water. Avoid water logging in crop field. Monitor insect</li> </ul>
Animal Sciences				pest infestation.
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Dewor	ming	<ul> <li>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.</li> <li>As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.</li> </ul>
		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



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E-mail: agromet\_mnp@yahoo.co.uk

			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.
	months of age	Endo/ Ecto parasite or ski infection	n - Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
	months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
	age	Ũ	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:			
Carp culture	Nurseries/ grow-		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.
			Provide feed 2 times @ 5 % body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and mineral.
			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			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: Chandel	
Past weather for the of Imphal West (20 <sup>th</sup> to 23 <sup>rd</sup> Sept, 2019):	Weather forecast for Chandel (25 <sup>th</sup> to 29 <sup>th</sup> Sept, 2019):
104.0 mm rainfall was observed during the past four days. The skies	Likely to have scattered light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged from	remain partly cloudy to mainly cloudy max. temp. 30-33 °C &
26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of	mini. temp. 24-25°C. Relative humidity may reach upto 99 %
93.0 % max & 71.8 % min was recorded in the past four days & average	(max) & 83 % (min). The average wind speed may be 2-5
wind speed was 1.6–3.1km/ hr.	km/hr.

#### General Advisory:

- **1.** Harvest rain water during rainy days.
- 2. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid water logging.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initia flowering	ation to		<ul> <li>Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>
Soybean/ Groundnut/ Rice Bean	Fruiting/ peg	ging		- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative			- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Potato	Land prepara	ation		<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 Managemen			<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. 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
Cabbage/ Broccoli/ Cauliflower Broad bean/ Pea/ French bean Tree bean Turmeric	Nursery (late         Nursery (late         Seed collecti         sowing         Trees above         age/ Bearing         Rhizome initial	ation/ on to 7yrs plants	Soil nutrition management	<ul> <li>Nursery site should be fertile and well drained. Avoid water logging.</li> <li>For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet.</li> <li>Roof may be made up of polythene/ tin/ paddy straw as per convenience.</li> <li>Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.</li> <li>Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.</li> <li>Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains.</li> <li>Drain out excess water. Avoid water logging in crop field. Monitor insect</li> </ul>
				pest infestation.
Animal Sciences Name of bird/ animal	Stere	Dia	aso/Management	Agene material advisories
	Stage		ase/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	susception		ming	- 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	Coccidi	10515	- 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

# Date of issue: 24<sup>th</sup> September, 2019



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			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.
	months of age	Endo/ Ecto parasite or ski infection	n - Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
	months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
	age	Ũ	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:			
Carp culture	Nurseries/ grow-		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.
			Provide feed 2 times @ 5 % body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and mineral.
			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			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.

E-mail: agromet\_mnp@yahoo.co.uk

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#### **MANIPUR AGROMET ADVISORY BULLETIN**

District:	Churachandpur	
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Date of issue: 24<sup>th</sup> September, 2019

Past weather for the of Imphal West (20 <sup>th</sup> to 23 <sup>rd</sup> Sept, 2019):	Weather forecast for Churachandpur (25 <sup>th</sup> to 29 <sup>th</sup> Sept, 2019):
104.0 mm rainfall was observed during the past four days. The skies	Likely to have scattered light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged from	remain partly cloudy to mainly cloudy max. temp. 30-32 °C &
26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of	mini. temp. 24-25°C. Relative humidity may reach upto 99 %
93.0 % max & 71.8 % min was recorded in the past four days & average	(max) & 85 % (min). The average wind speed may be 2-5
wind speed was 1.6–3.1km/ hr.	km/hr.

- **1.** Harvest rain water during rainy days.
- 2. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid water logging.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initia flowering	ation to		<ul> <li>Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>
Soybean/ Groundnut/ Rice Bean	Fruiting/ peg	gging		- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative			- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Potato	Land prepara	ation		<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 Managemen			<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. 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
Cabbage/ Broccoli/ Cauliflower Broad bean/ Pea/ French bean Tree bean Turmeric	Nursery (late         Nursery (late         Land prepara         seed collecti         sowing         Trees above         age/ Bearing         Rhizome initial	ation/ on to 7yrs plants	Soil nutrition management	<ul> <li>Nursery site should be fertile and well drained. Avoid water logging.</li> <li>For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet.</li> <li>Roof may be made up of polythene/ tin/ paddy straw as per convenience.</li> <li>Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.</li> <li>Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.</li> <li>Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains.</li> <li>Drain out excess water. Avoid water logging in crop field. Monitor insect</li> </ul>
				pest infestation.
Animal Sciences	State 1			
Name of bird/ animal	Stage		ase/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)			0	<ul> <li>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.</li> <li>As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit</li> </ul>
	age groups	Coccid	10212	<ul> <li>As a preventive measure against Coccidiosis, provide Supercox @ 1g/ it of water.</li> <li>Give green grasses sufficiently &amp; mix with ground maize/ rice bran.</li> </ul>
		Care &	management	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permangnate (few



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			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.	
	months of age	Endo/ Ecto parasite or ski infection	n - Inject Neomac @ 1 ml/ 10 kg body weight.	
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.	
	months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @	
	age	Ũ	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:				
Carp culture	Nurseries/ grow-		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.	
			Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.	
			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.	
	- Sa		- 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			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**

Date of issue: 24<sup>th</sup> September, 2019

Past weather for the of Imphal West (20 <sup>th</sup> to 23 <sup>rd</sup> Sept, 2019):	Weather forecast for Imphal West (25 <sup>th</sup> to 29 <sup>th</sup> Sept, 2019):
104.0 mm rainfall was observed during the past four days. The skies	Likely to have scattered light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged from	remain partly cloudy to mainly cloudy max. temp. 30-31 °C &
26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of	mini. temp. 21-22°C. Relative humidity may reach upto 99 %
93.0 % max & 71.8 % min was recorded in the past four days & average	(max) & 69 % (min). The average wind speed may be 3-5
wind speed was 1.6–3.1km/ hr.	km/hr.

- **1.** Harvest rain water during rainy days.
- 2. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid water logging.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initia	ation to		- Maintain water level of 5-8 cm in the crop field. Drain out excess
	flowering			water. Monitor insect pest infestation.
				- Weeding may be done. If required gap filling may be done.
Soybean/	Fruiting/ peg	gging		- Drain out excess water. Avoid water logging in crop field. Monitor
Groundnut/ Rice				insect pest infestation.
Bean				
Millet/ Blackgram	Vegetative			- Drain out excess water. Avoid water logging in crop field. Monitor
				insect pest infestation.
Potato	Land prepar	ation		- 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			- For seed purpose store the seeds in RC-Seed Bin after proper drying
	Managemen	t		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
				Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Cabbage/	Nursery (late	season)		- Nursery site should be fertile and well drained. Avoid water logging.
Broccoli/				- For the present situation of weather, make shift arrangement like
Cauliflower				temperory rain shelter. Temporary roof of the nursery bed should be in the
				slanting position (6 feet in the East and 4 feet in the west at a height of 4
				feet.
				- Roof may be made up of polythene/ tin/ paddy straw as per convenience.
				- Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After
				application keep it covered for at least 24-48 hours.
Broad bean/ Pea/	Land preparation/			Prepare land for sowing after rains. Procure healthy disease free seeds for
French bean	seed collecti	on to		sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
	sowing			
Tree bean	Trees above	7yrs		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
	age/ Bearing			
Turmeric	Rhizome ini		Soil nutrition	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility after rains.
			6	- Drain out excess water. Avoid water logging in crop field. Monitor insect
				pest infestation.
Animal Sciences				
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/	All	Dewor	ming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
Duck)	susceptible		8	day with half the dose at regular interval of 3 weeks.
	age groups	Coccid	iosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit
	uge groups	Coccia	10515	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
		•		



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

"Gramin Krishi Mausam Seva"



E-mail: agromet\_mnp@yahoo.co.uk

			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.	
	months of age	Endo/ Ecto parasite or ski infection	n - Inject Neomac @ 1 ml/ 10 kg body weight.	
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.	
	months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @	
	age	Ũ	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:				
Carp culture	Nurseries/ grow-		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.	
			Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.	
			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.	
	- Sa		- 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			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.	

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



Date of issue: 24<sup>th</sup> September, 2019

## MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal East	
Past weather for the of Imphal West (20 <sup>th</sup> to 23 <sup>rd</sup> Sept, 2019):	Weather forecast for Imphal East (25 <sup>th</sup> to 29 <sup>th</sup> Sept, 2019):
104.0 mm rainfall was observed during the past four days. The skies	Likely to have scattered light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged from	remain partly cloudy to mainly cloudy max. temp. 28-30 °C &
26.8-31.9 °C and minimum of 20.4-22.0 °C. Mean relative humidity of	mini. temp. 20-21°C. Relative humidity may reach upto 97 %
93.0 % max & 71.8 % min was recorded in the past four days & average	(max) & 84 % (min). The average wind speed may be 4-
wind speed was 1.6–3.1km/ hr.	7km/hr.

- **1.** Harvest rain water during rainy days.
- 2. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid water logging.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initia flowering	ation to		<ul> <li>Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>
Soybean/ Groundnut/ Rice Bean	Fruiting/ peg	gging		- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative			- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Potato	Land prepara	ation		<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 Managemen			- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Cabbage/ Broccoli/ Cauliflower Broad bean/ Pea/ French bean Tree bean Turmeric	Nursery (late         Nursery (late         Land prepara         seed collecti         sowing         Trees above         age/ Bearing         Rhizome initial	ation/ on to 7yrs plants	Soil nutrition management	<ul> <li>Nursery site should be fertile and well drained. Avoid water logging.</li> <li>For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet.</li> <li>Roof may be made up of polythene/ tin/ paddy straw as per convenience.</li> <li>Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.</li> <li>Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.</li> <li>Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains.</li> </ul>
Animal Sciences				- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Dewor	ming	<ul> <li>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.</li> <li>As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.</li> </ul>
		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



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

"Gramin Krishi Mausam Seva"



E-mail: agromet\_mnp@yahoo.co.uk

			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.	
	months of age	Endo/ Ecto parasite or ski infection	n - Inject Neomac @ 1 ml/ 10 kg body weight.	
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.	
	months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @	
	age	Ũ	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:				
Carp culture	Nurseries/ grow-		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.	
			Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.	
			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.	
	- Sa		- 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			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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Date of issue: 24<sup>th</sup> September, 2019

## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Senapati	
Past weather for the of Imphal West (20 <sup>th</sup> to 23 <sup>rd</sup> Sept, 2019):	Weather forecast for Senapati (25 <sup>th</sup> to 29 <sup>th</sup> Sept, 2019):
104.0 mm rainfall was observed during the past four days. The skies	Likely to have scattered light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged from	remain partly cloudy to mainly cloudy max. temp. 29-31 °C &
26.8-31.9 °C and minimum of 20.4-22.0 °C. Mean relative humidity of	mini. temp. 24-25°C. Relative humidity may reach upto 99 %
93.0 % max & 71.8 % min was recorded in the past four days & average	(max) & 88 % (min). The average wind speed may be 3-5
wind speed was 1.6–3.1km/ hr.	km/hr.

- **1.** Harvest rain water during rainy days.
- 2. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid water logging.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initia flowering	ation to		<ul> <li>Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>
Soybean/ Groundnut/ Rice Bean	Fruiting/ peg	gging		- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative			- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
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. 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
Cabbage/ Broccoli/ Cauliflower Broad bean/ Pea/	Nursery (late)       Land prepara			<ul> <li>Nursery site should be fertile and well drained. Avoid water logging.</li> <li>For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet.</li> <li>Roof may be made up of polythene/ tin/ paddy straw as per convenience.</li> <li>Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.</li> <li>Prepare land for sowing after rains. Procure healthy disease free seeds for</li> </ul>
French bean	seed collection to sowing			sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above 7yrs age/ Bearing plants			Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Turmeric	Rhizome initiation		Soil nutrition management	<ul> <li>Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains.</li> <li>Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.</li> </ul>
Animal Sciences	<u> </u>			
Name of bird/ animal Poultry (Chicken/ Duck)	Stage All susceptible	Dewor	ase/ Management ming	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	Coccid	iosis	- 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	Coccid	ial infection	- Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	months of	Endo/ E	cto parasite or skin	- Inject Neomac @ 1 ml/ 10 kg body weight.

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"



	age	infection		
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide	
			ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.	
	months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @	
	age		1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).	
		Management	- Provide wholesome water.	
			- Give Amoxyline/ Salbactum or any antibiotic for 5 days.	
Goat	All age groups	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.	
	except three	Endoparasite/	Deworm using Minthal bolus @ 1/2 bolus per 20 kg body weight	
months or below		Ectoparasite	accompanied with Livozyme daily.	
Fishery:	·	•		
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			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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Date of issue: 24<sup>th</sup> September, 2019

## **MANIPUR AGROMET ADVISORY BULLETIN**

District: Tamenglong	
Past weather for the of Imphal West (20 <sup>th</sup> to 23 <sup>rd</sup> Sept, 2019):	Weather forecast for Tamenglong (25 <sup>th</sup> to 29 <sup>th</sup> Sept, 2019):
104.0 mm rainfall was observed during the past four days. The skies	Likely to have scattered light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged from	remain partly cloudy to mainly cloudy max. temp. 27-29 °C &
26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of	mini. temp. 24-25°C. Relative humidity may reach upto 99 %
93.0 % max & 71.8 % min was recorded in the past four days & average	(max) & 88 % (min). The average wind speed may be 3-5
wind speed was 1.6–3.1km/ hr.	km/hr.

- **1.** Harvest rain water during rainy days.
- 2. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid water logging.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation to flowering			<ul> <li>Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging			- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative			- Drain out excess water. Avoid water logging in crop field. 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
Cabbage/ Broccoli/ Cauliflower Broad bean/ Pea/ French bean Tree bean Turmeric	Stage         Nursery (late season)         Land preparation/         seed collection to         sowing         Trees above 7yrs         age/ Bearing plants         Rhizome initiation		Soil nutrition management	<ul> <li>Nursery site should be fertile and well drained. Avoid water logging.</li> <li>For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet.</li> <li>Roof may be made up of polythene/ tin/ paddy straw as per convenience.</li> <li>Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.</li> <li>Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.</li> <li>Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains.</li> <li>Drain out excess water. Avoid water logging in crop field. Monitor insect</li> </ul>
Animal Sciences				pest infestation.
Name of bird/ animal	Stage	Dise	ase/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming Coccidiosis		<ul> <li>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.</li> <li>As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.</li> </ul>
		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



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"Gramin Krishi Mausam Seva"



E-mail: agromet\_mnp@yahoo.co.uk

			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 ski infection	
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle Above 3		Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
	months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
	age		1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).
		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	Endoparasite/	Deworm using Minthal bolus @ 1/2 bolus per 20 kg body weight
	below	Ectoparasite	accompanied with Livozyme daily.
Fishery:			
Carp culture	Nurseries/ grow-		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.
			Provide feed 2 times @ 5 % body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and
			mineral.
			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	U		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*

Past weather for the of Imphal West (20 <sup>th</sup> to 23 <sup>rd</sup> Sept, 2019):	Weather forecast for Thoubal (25 <sup>th</sup> to 29 <sup>th</sup> Sept, 2019):
104.0 mm rainfall was observed during the past four days. The skies	Likely to have scattered light rains upto Sunday. The sky will
remained mainly cloudy to overcast. Maximum temperature ranged from	remain partly cloudy to mainly cloudy max. temp. 30-33 °C &
26.8-31.9 °C and minimum of 20.4-22.0 °C. Mean relative humidity of	mini. temp. 24-25°C. Relative humidity may reach upto 99 %
93.0 % max & 71.8 % min was recorded in the past four days & average	(max) & 90 % (min). The average wind speed may be 3-6
wind speed was 1.6–3.1km/ hr.	km/hr.

### General Advisory:

- **1.** Harvest rain water during rainy days.
- 2. Provisions may be made to drain out excess water due to rains in crop field and around the birds/ animals sheds. Avoid water logging.

Field Crops				
Name of the crop	Stage		Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initia flowering	ation to		<ul> <li>Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation.</li> <li>Weeding may be done. If required gap filling may be done.</li> </ul>
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging			- Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative			- Drain out excess water. Avoid water logging in crop field. 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 Managemen			<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. 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
Cabbage/ Broccoli/ Cauliflower Broad bean/ Pea/ French bean Tree bean Turmeric	Stage         Nursery (late season)         Land preparation/         seed collection to         sowing         Trees above 7yrs         age/ Bearing plants         Rhizome initiation		Soil nutrition management	<ul> <li>Nursery site should be fertile and well drained. Avoid water logging.</li> <li>For the present situation of weather, make shift arrangement like temperory rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet.</li> <li>Roof may be made up of polythene/ tin/ paddy straw as per convenience.</li> <li>Apply Captan 50 WP@ 5g/m2 after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.</li> <li>Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.</li> <li>Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.</li> <li>Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains.</li> <li>Drain out excess water. Avoid water logging in crop field. Monitor insect</li> </ul>
				pest infestation.
Animal Sciences Name of bird/ animal	Stage	Dico	ase/ Management	Agro-meteorological advisories
			_	
Poultry (Chicken/ Duck)	All susceptible	Deworming		- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
	age groups	Coccidiosis		- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
		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

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

"Gramin Krishi Mausam Seva"



E-mail: agromet\_mnp@yahoo.co.uk

			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 ski infection	
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle Above 3		Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
	months of	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @
	age		1ml/ 2kg body weight or 5.5ml/ 10 kg body weight ( Ranizole).
		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	Endoparasite/	Deworm using Minthal bolus @ 1/2 bolus per 20 kg body weight
	below	Ectoparasite	accompanied with Livozyme daily.
Fishery:			
Carp culture	Nurseries/ grow-		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.
			Provide feed 2 times @ 5 % body weight per day.
			Provide good feed having 30% crude protein fortified with vitamins and
			mineral.
			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	U		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.