

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 24th September, 2019

District: Ukhrul

Past weather for the of Imphal West (20th to 23rd Sept, 2019):

104.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of 93.0 % max & 71.8 % min was recorded in the past four days & average wind speed was 1.6–3.1km/ hr.

Weather forecast for Ukhrul (25th to 29th Sept, 2019):

Likely to have scattered light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 30-32 °C & mini. temp. 24-25°C. Relative humidity may reach upto 99 % (max) & 87 % (min). The average wind speed may be 3-4 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 initiation to flowering		<ul style="list-style-type: none"> - Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation. - Weeding may be done. If required gap filling may be done.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging		<ul style="list-style-type: none"> - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative		<ul style="list-style-type: none"> - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage/ Broccoli/ Cauliflower	Nursery (late season)		<ul style="list-style-type: none"> - Nursery site should be fertile and well drained. Avoid water logging. - For the present situation of weather, make shift arrangement like temporary rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. - Roof may be made up of polythene/ tin/ paddy straw as per convenience. - Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Broad bean/ Pea/ French bean	Land preparation/ seed collection to sowing		<ul style="list-style-type: none"> - Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above 7yrs age/ Bearing plants		<ul style="list-style-type: none"> - Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Turmeric	Rhizome initiation	Soil nutrition management	<ul style="list-style-type: none"> - Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains. - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	<ul style="list-style-type: none"> - 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.
		Coccidiosis	<ul style="list-style-type: none"> - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			<ul style="list-style-type: none"> - Give green grasses sufficiently & mix with ground maize/ rice bran.
		Care & management	<ul style="list-style-type: none"> - Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of	Coccidial infection	<ul style="list-style-type: none"> - Ofloxacin/ Ornidazole (O₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin	<ul style="list-style-type: none"> - Inject Neomac @ 1 ml/ 10 kg body weight.



	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 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Management	- Provide wholesome water. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups except three months or below	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.

Fishery:

Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 24th September, 2019**District: Bishnupur****Past weather for the of Imphal West (20th to 23rd Sept, 2019):**

104.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of 93.0 % max & 71.8 % min was recorded in the past four days & average wind speed was 1.6–3.1km/ hr.

Weather forecast for Bishnupur (25th to 29th Sept, 2019):

Likely to have scattered light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 32-33 °C & mini. temp. 24-25°C. Relative humidity may reach upto 99 % (max) & 90 % (min). The average wind speed may be 2-7 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 initiation to flowering		- Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation. - Weeding may be done. If required gap filling may be done.
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		- Land preparation for planting potato in foothills and upland area may be done after rains. - Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage/ Broccoli/ Cauliflower	Nursery (late season)		- Nursery site should be fertile and well drained. Avoid water logging. - For the present situation of weather, make shift arrangement like temporary 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/m ² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Broad bean/ Pea/ French bean	Land preparation/ seed collection to sowing		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains. - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	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.
		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 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Management	- Provide wholesome water. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups except three months or below	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.
Fishery:			
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 24th September, 2019*District: Chandel***Past weather for the of Imphal West (20th to 23rd Sept, 2019):**

104.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of 93.0 % max & 71.8 % min was recorded in the past four days & average wind speed was 1.6–3.1km/ hr.

Weather forecast for Chandel (25th to 29th Sept, 2019):

Likely to have scattered light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 30-33 °C & mini. temp. 24-25°C. Relative humidity may reach upto 99 % (max) & 83 % (min). The average wind speed may be 2-5 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 initiation to flowering		<ul style="list-style-type: none"> - Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation. - Weeding may be done. If required gap filling may be done.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging		<ul style="list-style-type: none"> - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative		<ul style="list-style-type: none"> - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Potato	Land preparation		<ul style="list-style-type: none"> - Land preparation for planting potato in foothills and upland area may be done after rains. - Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage/ Broccoli/ Cauliflower	Nursery (late season)		<ul style="list-style-type: none"> - Nursery site should be fertile and well drained. Avoid water logging. - For the present situation of weather, make shift arrangement like temporary rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. - Roof may be made up of polythene/ tin/ paddy straw as per convenience. - Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Broad bean/ Pea/ French bean	Land preparation/ seed collection to sowing		<ul style="list-style-type: none"> - Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above 7yrs age/ Bearing plants		<ul style="list-style-type: none"> - Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Turmeric	Rhizome initiation	Soil nutrition management	<ul style="list-style-type: none"> - Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains. - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	<ul style="list-style-type: none"> - 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.
		Coccidiosis	<ul style="list-style-type: none"> - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			<ul style="list-style-type: none"> - Give green grasses sufficiently & mix with ground maize/ rice bran.
		Care & management	<ul style="list-style-type: none"> - Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few



			grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Management	- Provide wholesome water. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups except three months or below	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.
Fishery:			
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 24th September, 2019*District: Churachandpur***Past weather for the of Imphal West (20th to 23rd Sept, 2019):**

104.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of 93.0 % max & 71.8 % min was recorded in the past four days & average wind speed was 1.6–3.1km/ hr.

Weather forecast for Churachandpur (25th to 29th Sept, 2019):

Likely to have scattered light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 30-32 °C & mini. temp. 24-25°C. Relative humidity may reach upto 99 % (max) & 85 % (min). The average wind speed may be 2-5 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 initiation to flowering		- Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation. - Weeding may be done. If required gap filling may be done.
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		- Land preparation for planting potato in foothills and upland area may be done after rains. - Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage/ Broccoli/ Cauliflower	Nursery (late season)		- Nursery site should be fertile and well drained. Avoid water logging. - For the present situation of weather, make shift arrangement like temporary 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/m ² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Broad bean/ Pea/ French bean	Land preparation/ seed collection to sowing		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains. - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	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.
		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 permanganate (few



			grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Management	- Provide wholesome water. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups except three months or below	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.
Fishery:			
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(I. Meghachandra Singh)
 Nodal Officer, GKMS

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District: Imphal West

Past weather for the of Imphal West (20th to 23rd Sept, 2019):

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Weather forecast for Imphal West (25th to 29th Sept, 2019):

Likely to have scattered light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 30-31 °C & mini. temp. 21-22°C. Relative humidity may reach upto 99 % (max) & 69 % (min). The average wind speed may be 3-5 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 initiation to flowering		<ul style="list-style-type: none"> - Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation. - Weeding may be done. If required gap filling may be done.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging		<ul style="list-style-type: none"> - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative		<ul style="list-style-type: none"> - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Potato	Land preparation		<ul style="list-style-type: none"> - Land preparation for planting potato in foothills and upland area may be done after rains. - Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage/ Broccoli/ Cauliflower	Nursery (late season)		<ul style="list-style-type: none"> - Nursery site should be fertile and well drained. Avoid water logging. - For the present situation of weather, make shift arrangement like temporary rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. - Roof may be made up of polythene/ tin/ paddy straw as per convenience. - Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Broad bean/ Pea/ French bean	Land preparation/ seed collection to sowing		<ul style="list-style-type: none"> - Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above 7yrs age/ Bearing plants		<ul style="list-style-type: none"> - Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Turmeric	Rhizome initiation	Soil nutrition management	<ul style="list-style-type: none"> - Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains. - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	<ul style="list-style-type: none"> - 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.
		Coccidiosis	<ul style="list-style-type: none"> - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			<ul style="list-style-type: none"> - Give green grasses sufficiently & mix with ground maize/ rice bran.
		Care & management	<ul style="list-style-type: none"> - Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few



			grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Management	- Provide wholesome water. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups except three months or below	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.
Fishery:			
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 24th September, 2019*District: Imphal East***Past weather for the of Imphal West (20th to 23rd Sept, 2019):**

104.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of 93.0 % max & 71.8 % min was recorded in the past four days & average wind speed was 1.6–3.1km/ hr.

Weather forecast for Imphal East (25th to 29th Sept, 2019):

Likely to have scattered light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 28-30 °C & mini. temp. 20-21°C. Relative humidity may reach upto 97 % (max) & 84 % (min). The average wind speed may be 4-7km/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 initiation to flowering		- Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation. - Weeding may be done. If required gap filling may be done.
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		- Land preparation for planting potato in foothills and upland area may be done after rains. - Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage/ Broccoli/ Cauliflower	Nursery (late season)		- Nursery site should be fertile and well drained. Avoid water logging. - For the present situation of weather, make shift arrangement like temporary 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/m ² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Broad bean/ Pea/ French bean	Land preparation/ seed collection to sowing		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains. - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	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.
		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 permanganate (few



			grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Management	- Provide wholesome water. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups except three months or below	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.
Fishery:			
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 24th September, 2019*District: Senapati***Past weather for the of Imphal West (20th to 23rd Sept, 2019):**

104.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of 93.0 % max & 71.8 % min was recorded in the past four days & average wind speed was 1.6–3.1km/ hr.

Weather forecast for Senapati (25th to 29th Sept, 2019):

Likely to have scattered light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 29-31 °C & mini. temp. 24-25°C. Relative humidity may reach upto 99 % (max) & 88 % (min). The average wind speed may be 3-5 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 initiation to flowering		<ul style="list-style-type: none"> - Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation. - Weeding may be done. If required gap filling may be done.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging		<ul style="list-style-type: none"> - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative		<ul style="list-style-type: none"> - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage/ Broccoli/ Cauliflower	Nursery (late season)		<ul style="list-style-type: none"> - Nursery site should be fertile and well drained. Avoid water logging. - For the present situation of weather, make shift arrangement like temporary rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. - Roof may be made up of polythene/ tin/ paddy straw as per convenience. - Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Broad bean/ Pea/ French bean	Land preparation/ seed collection to sowing		<ul style="list-style-type: none"> - Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above 7yrs age/ Bearing plants		<ul style="list-style-type: none"> - Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Turmeric	Rhizome initiation	Soil nutrition management	<ul style="list-style-type: none"> - Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains. - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	<ul style="list-style-type: none"> - 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.
		Coccidiosis	<ul style="list-style-type: none"> - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			<ul style="list-style-type: none"> - Give green grasses sufficiently & mix with ground maize/ rice bran.
		Care & management	<ul style="list-style-type: none"> - Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of	Coccidial infection	<ul style="list-style-type: none"> - Ofloxacin/ Ornidazole (O₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin	<ul style="list-style-type: none"> - Inject Neomac @ 1 ml/ 10 kg body weight.



	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 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Management	- Provide wholesome water. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups except three months or below	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.

Fishery:

Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 24th September, 2019*District: Tamenglong***Past weather for the of Imphal West (20th to 23rd Sept, 2019):**

104.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of 93.0 % max & 71.8 % min was recorded in the past four days & average wind speed was 1.6–3.1km/ hr.

Weather forecast for Tamenglong (25th to 29th Sept, 2019):

Likely to have scattered light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 27-29 °C & mini. temp. 24-25°C. Relative humidity may reach upto 99 % (max) & 88 % (min). The average wind speed may be 3-5 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 initiation to flowering		- Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation. - Weeding may be done. If required gap filling may be done.
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		- Land preparation for planting potato in foothills and upland area may be done after rains. - Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage/ Broccoli/ Cauliflower	Nursery (late season)		- Nursery site should be fertile and well drained. Avoid water logging. - For the present situation of weather, make shift arrangement like temporary 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/m ² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Broad bean/ Pea/ French bean	Land preparation/ seed collection to sowing		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains. - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	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.
		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 permanganate (few



			grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Management	- Provide wholesome water. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups except three months or below	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.
Fishery:			
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 24th September, 2019*District: Thoubal***Past weather for the of Imphal West (20th to 23rd Sept, 2019):**

104.0 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 26.8–31.9 °C and minimum of 20.4–22.0 °C. Mean relative humidity of 93.0 % max & 71.8 % min was recorded in the past four days & average wind speed was 1.6–3.1km/ hr.

Weather forecast for Thoubal (25th to 29th Sept, 2019):

Likely to have scattered light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy max. temp. 30-33 °C & mini. temp. 24-25°C. Relative humidity may reach upto 99 % (max) & 90 % (min). The average wind speed may be 3-6 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 initiation to flowering		<ul style="list-style-type: none"> - Maintain water level of 5-8 cm in the crop field. Drain out excess water. Monitor insect pest infestation. - Weeding may be done. If required gap filling may be done.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging		<ul style="list-style-type: none"> - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Millet/ Blackgram	Vegetative		<ul style="list-style-type: none"> - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.
Potato	Land preparation		<ul style="list-style-type: none"> - Land preparation for planting potato in foothills and upland area may be done after rains. - Procure healthy good quality suitable variety seed tuber from reliable source. Treat tuber seed with Carbendazim@2g/kg seed before sowing.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage/ Broccoli/ Cauliflower	Nursery (late season)		<ul style="list-style-type: none"> - Nursery site should be fertile and well drained. Avoid water logging. - For the present situation of weather, make shift arrangement like temporary rain shelter. Temporary roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. - Roof may be made up of polythene/ tin/ paddy straw as per convenience. - Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Broad bean/ Pea/ French bean	Land preparation/ seed collection to sowing		<ul style="list-style-type: none"> - Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Tree bean	Trees above 7yrs age/ Bearing plants		<ul style="list-style-type: none"> - Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Turmeric	Rhizome initiation	Soil nutrition management	<ul style="list-style-type: none"> - Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility after rains. - Drain out excess water. Avoid water logging in crop field. Monitor insect pest infestation.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	<ul style="list-style-type: none"> - 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.
		Coccidiosis	<ul style="list-style-type: none"> - As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			<ul style="list-style-type: none"> - Give green grasses sufficiently & mix with ground maize/ rice bran.
		Care & management	<ul style="list-style-type: none"> - Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few



			grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole).
		Management	- Provide wholesome water. - Give Amoxyline/ Salbactum or any antibiotic for 5 days.
Goat	All age groups except three months or below	Fascioliasis	- Give Tolzan-F in association with vitamins like Livozyme twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme daily.
Fishery:			
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month. Broadcast Green AQ @2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 8000-10000 fingerlings can be stocked in one hectare pond. - Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. - Sampling of fish for growth, disease should be done regularly by netting.
In integrated Fish Farming	Pig		About 30-40 two months old pigs may be kept for fertilization of the one ha fish pond. Pigs are feed on mash at an average of 1kg/day. Green grasses or animal folder is also provided. Grass with interlocked soil in the root system (sod) is provided once a week to avoid mineral deficiency.
	Duck		200-400 ducks of 2-3 months old are sufficient to adequately fertilize a 1 ha pond.

(I. Meghachandra Singh)
Nodal Officer, GKMS