

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th September, 2019*District: Thoubal***Past weather for the of Imphal West (13th to 16th Sept, 2019):**

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9–31.5 °C and minimum of 20.1–22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Thoubal (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 33-34 °C & mini. temp. 24-25°C. Relative humidity may reach upto 98 % (max) & 79 % (min). The average wind speed may be 2-5 km/hr.

General Advisory:

1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Aphid and leaf miner	- Spray Metasystox 25 EC @ 1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - 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 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		- Nursery site should be fertile and well drained. - 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. 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.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.

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 Anthelmintics against Fascioliasis.
		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 Amoxycillin/ Salbactam or any antibiotic for 5 days.
Goat	All age groups except three months or below	Fascioliasis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml 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: 17th September, 2019

District: Ukhrul

Past weather for the of Imphal West (13th to 16th Sept, 2019):

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9–31.5 °C and minimum of 20.1–22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Ukhrul (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 32-33 °C & mini. temp. 25°C. Relative humidity may reach upto 97 % (max) & 65 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Aphid and leaf miner	- Spray Metasystox 25 EC @ 1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Seed storage	Post-harvest Management		- 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		- Nursery site should be fertile and well drained. - 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. 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.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.



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	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml 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: 17th September, 2019*District: Bishnupur***Past weather for the of Imphal West (13th to 16th Sept, 2019):**

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9–31.5 °C and minimum of 20.1–22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Bishnupur (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 32-34 °C & mini. temp. 24-25°C. Relative humidity may reach upto 98 % (max) & 75 % (min). The average wind speed may be 3-5 km/hr.

General Advisory:

1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Aphid and leaf miner	- Spray Metasystox 25 EC @ 1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - 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 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		- Nursery site should be fertile and well drained. - 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. 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.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.

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 Anthelmintics against Fascioliasis.
		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/ Salbactam or any antibiotic for 5 days.
Goat	All age groups except three months or below	Fascioliasis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml 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: 17th September, 2019*District: Chandel***Past weather for the of Imphal West (13th to 16th Sept, 2019):**

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9–31.5 °C and minimum of 20.1–22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Chandel (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 30-33 °C & mini. temp. 24-25°C. Relative humidity may reach upto 96 % (max) & 66 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Aphid and leaf miner	- Spray Metasystox 25 EC @ 1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
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Animal Sciences

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		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.

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th September, 2019*District: Churachandpur***Past weather for the of Imphal West (13th to 16th Sept, 2019):**

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9–31.5 °C and minimum of 20.1–22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Churachandpur (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 30-34 °C & mini. temp. 24-25°C. Relative humidity may reach upto 98 % (max) & 67 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Aphid and leaf miner	- Spray Metasystox 25 EC @ 1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - 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 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		- Nursery site should be fertile and well drained. - 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. 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.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
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	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml 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.

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th September, 2019*District: Imphal East***Past weather for the of Imphal West (13th to 16th Sept, 2019):**

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9–31.5 °C and minimum of 20.1–22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Imphal East (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 30-31 °C & mini. temp. 21°C. Relative humidity may reach upto 96 % (max) & 66 % (min). The average wind speed may be 4-7 km/hr.

General Advisory:

1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Aphid and leaf miner	- Spray Metasystox 25 EC @ 1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - 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 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		- Nursery site should be fertile and well drained. - 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. 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.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
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	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml 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.

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 17th September, 2019*District: Imphal West***Past weather for the of Imphal West (13th to 16th Sept, 2019):**

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9–31.5 °C and minimum of 20.1–22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Imphal West (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy max. temp. 30-31 °C & mini. temp. 21°C. Relative humidity may reach upto 99 % (max) & 62 % (min). The average wind speed may be 3-5 km/hr.

General Advisory:

1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Aphid and leaf miner	- Spray Metasystox 25 EC @ 1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - 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 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		- Nursery site should be fertile and well drained. - 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		Prepare land for sowing. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.



	sowing		
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
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	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml 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: 17th September, 2019*District: Senapati***Past weather for the of Imphal West (13th to 16th Sept, 2019):**

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9–31.5 °C and minimum of 20.1–22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Senapati (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 30-33 °C & mini. temp. 24-25°C. Relative humidity may reach upto 98 % (max) & 73 % (min). The average wind speed may be 3-5 km/hr.

General Advisory:

1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Aphid and leaf miner	- Spray Metasystox 25 EC @ 1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
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		- Nursery site should be fertile and well drained. - 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. 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.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.



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	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml 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: 17th September, 2019*District: Tamenglong***Past weather for the of Imphal West (13th to 16th Sept, 2019):**

11.4 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but mainly clear to partly cloudy during afternoon hours of 14th and on 15th Sept. Maximum temperature ranged from 27.9–31.5 °C and minimum of 20.1–22.2 °C. Mean relative humidity of 91.0 % max & 67.3 % min was recorded in the past four days & average wind speed was 2.6–5.4 km/ hr.

Weather forecast for Tamenglong (18th to 22nd Sept, 2019):

Likely to have scattered rains from Friday. The sky will remain partly cloudy to mainly cloudy with max. temp. 28-32 °C & mini. temp. 24-25°C. Relative humidity may reach upto 99 % (max) & 63 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Sprayers used to spray weedicide must not be used for spraying of insecticides or pesticides. Insecticides and pesticides must not be combined while spraying. Farmers are advised to add stickers @ 5ml/ pump.
2. Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Aphid and leaf miner	- Spray Metasystox 25 EC @ 1ml/ litre of water after rains.
		Tikka disease in groundnut	- After rains, spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - 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 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		- Nursery site should be fertile and well drained. - 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. 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.
Turmeric	Rhizome initiation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
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	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml 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.