

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 2nd July, 2019

District: Ukhrul

Past weather for the of Imphal West (28th June to 1st July, 19):

10.3 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy during morning hours of 30th June morning and afternoon hours of 1st July. Maximum temperature ranged from 29.2 – 33.1 °C and minimum of 21.5 – 23.0 °C. Mean relative humidity of 88.3 % max & 64.3 % min was recorded in the past four days & average wind speed was 2.9 – 4.2 km/ hr.

Weather forecast for Ukhrul (3rd to 7th July, 2019):

Likely to have light rains upto Thursday and widespread moderate to heavy rains from Friday. The sky will remain mainly cloudy to overcast with max. temp. 28-30 °C & mini. temp. 23 °C. Relative humidity may reach upto 99 % (max) & 84 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Harvest rain water wherever possible to cope up water shortage problems after rains.
2. Proper drainage systems may be made in and around the crop fields and near the sheds of birds and animals.
3. Provide clean drinking water for birds and animals. Avoid leakage of rain water in sheds.
4. Avoid draining of muddy water in culture ponds, also liming may be done @300kg/ha to improve water quality in ponds. Raise the level of ridges around the fish ponds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Transplanting of 25-30 days old rice seedlings may be done with rains in next five days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
	Direct seeding with drum seeder		- Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative		- Avoid water logging if it rains heavy.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		- Avoid water logging if it rains heavy.
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
Passion fruit	Fruiting		- Avoid water logging if it rains heavy.
		Fruit Fly	- Spray Malathion @ 5 ml/lit of water to control fruit fly after rains.
Ginger/ Turmeric	Vegetative		- Avoid water logging if it rains heavy.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Tree bean	Planting		- After rains prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting 1 ½ to 2 yrs old healthy seedling.
	Pre-bearing plant (4-5 yrs. old)		- After rains, for pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cucurbits	Fruiting to harvesting		- Avoid fruits of cucurbits to touch soil. - Avoid water logging if it rains heavy.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Endoparasites	- De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.



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	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		Management	- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
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.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field	Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field may be converted into trench/pond for fish culture.	

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 2nd July, 2019*District: Bishnupur***Past weather for the of Imphal West (28th June to 1st July, 19):**

10.3 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy during morning hours of 30th June morning and afternoon hours of 1st July. Maximum temperature ranged from 29.2 – 33.1 °C and minimum of 21.5 – 23.0 °C. Mean relative humidity of 88.3 % max & 64.3 % min was recorded in the past four days & average wind speed was 2.9 – 4.2 km/ hr.

Weather forecast for Bishnupur (3rd to 7th July, 2019):

Likely to have light rains upto Thursday and widespread moderate to heavy rains from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 25-26 °C. Relative humidity may reach upto 99 % (max) & 84 % (min). The average wind speed may be 2-4 km/hr.

General Advisory:

1. Harvest rain water wherever possible to cope up water shortage problems after rains.
2. Proper drainage systems may be made in and around the crop fields and near the sheds of birds and animals.
3. Provide clean drinking water for birds and animals. Avoid leakage of rain water in sheds.
4. Avoid draining of muddy water in culture ponds, also liming may be done @300kg/ha to improve water quality in ponds. Raise the level of ridges around the fish ponds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Transplanting of 25-30 days old rice seedlings may be done with rains in next five days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
	Direct seeding with drum seeder		- Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative		- Avoid water logging if it rains heavy.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		- Avoid water logging if it rains heavy.
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
Passion fruit	Fruiting		- Avoid water logging if it rains heavy.
		Fruit Fly	- Spray Malathion @ 5 ml/lit of water to control fruit fly after rains.
Ginger/ Turmeric	Vegetative		- Avoid water logging if it rains heavy.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Tree bean	Planting		- After rains prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting 1 ½ to 2 yrs old healthy seedling.
	Pre-bearing plant (4-5 yrs. old)		- After rains, for pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cucurbits	Fruiting to harvesting		- Avoid fruits of cucurbits to touch soil. - Avoid water logging if it rains heavy.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Endoparasites	- De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.



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	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		Management	- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
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.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field	Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field may be converted into trench/pond for fish culture.	

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 2nd July, 2019*District: Chandel***Past weather for the of Imphal West (28th June to 1st July, 19):**

10.3 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy during morning hours of 30th June morning and afternoon hours of 1st July. Maximum temperature ranged from 29.2 – 33.1 °C and minimum of 21.5 – 23.0 °C. Mean relative humidity of 88.3 % max & 64.3 % min was recorded in the past four days & average wind speed was 2.9 – 4.2 km/ hr.

Weather forecast for Chandel (3rd to 7th July, 2019):

Likely to have light rains upto Thursday and widespread moderate to heavy rains from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 25-26 °C. Relative humidity may reach upto 98 % (max) & 83 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Harvest rain water wherever possible to cope up water shortage problems after rains.
2. Proper drainage systems may be made in and around the crop fields and near the sheds of birds and animals.
3. Provide clean drinking water for birds and animals. Avoid leakage of rain water in sheds.
4. Avoid draining of muddy water in culture ponds, also liming may be done @300kg/ha to improve water quality in ponds. Raise the level of ridges around the fish ponds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Transplanting of 25-30 days old rice seedlings may be done with rains in next five days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
	Direct seeding with drum seeder		- Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative		- Avoid water logging if it rains heavy.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		- Avoid water logging if it rains heavy.
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
Passion fruit	Fruiting		- Avoid water logging if it rains heavy.
		Fruit Fly	- Spray Malathion @ 5 ml/lit of water to control fruit fly after rains.
Ginger/ Turmeric	Vegetative		- Avoid water logging if it rains heavy.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Tree bean	Planting		- After rains prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting 1 ½ to 2 yrs old healthy seedling.
	Pre-bearing plant (4-5 yrs. old)		- After rains, for pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cucurbits	Fruiting to harvesting		- Avoid fruits of cucurbits to touch soil. - Avoid water logging if it rains heavy.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Endoparasites	- De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.



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	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		Management	- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
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.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field	Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field may be converted into trench/pond for fish culture.	

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 2nd July, 2019

District: Churachandpur

Past weather for the of Imphal West (28th June to 1st July, 19):

10.3 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy during morning hours of 30th June morning and afternoon hours of 1st July. Maximum temperature ranged from 29.2 – 33.1 °C and minimum of 21.5 – 23.0 °C. Mean relative humidity of 88.3 % max & 64.3 % min was recorded in the past four days & average wind speed was 2.9 – 4.2 km/ hr.

Weather forecast for Churachandpur (3rd to 7th July, 2019):

Likely to have light rains upto Thursday and widespread moderate to heavy rains from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 25-26 °C. Relative humidity may reach upto 99 % (max) & 83 % (min). The average wind speed may be 2-3 km/hr.

General Advisory:

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2. Proper drainage systems may be made in and around the crop fields and near the sheds of birds and animals.
3. Provide clean drinking water for birds and animals. Avoid leakage of rain water in sheds.
4. Avoid draining of muddy water in culture ponds, also liming may be done @300kg/ha to improve water quality in ponds. Raise the level of ridges around the fish ponds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Transplanting of 25-30 days old rice seedlings may be done with rains in next five days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
	Direct seeding with drum seeder		- Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative		- Avoid water logging if it rains heavy.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		- Avoid water logging if it rains heavy.
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
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		Fruit Fly	- Spray Malathion @ 5 ml/lit of water to control fruit fly after rains.
Ginger/ Turmeric	Vegetative		- Avoid water logging if it rains heavy.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Tree bean	Planting		- After rains prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting 1 ½ to 2 yrs old healthy seedling.
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Cucurbits	Fruiting to harvesting		- Avoid fruits of cucurbits to touch soil. - Avoid water logging if it rains heavy.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
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Cattle	Above 3 months of age	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		Management	- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
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.
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Fishery:			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
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		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field	Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field may be converted into trench/pond for fish culture.	

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 2nd July, 2019*District: Imphal East***Past weather for the of Imphal West (28th June to 1st July, 19):**

10.3 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy during morning hours of 30th June morning and afternoon hours of 1st July. Maximum temperature ranged from 29.2 – 33.1 °C and minimum of 21.5 – 23.0 °C. Mean relative humidity of 88.3 % max & 64.3 % min was recorded in the past four days & average wind speed was 2.9 – 4.2 km/ hr.

Weather forecast for Imphal East (3rd to 7th July, 2019):

Likely to have light rains upto Thursday and widespread moderate to heavy rains from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 25-26 °C. Relative humidity may reach upto 97 % (max) & 72 % (min). The average wind speed may be 3-5 km/hr.

General Advisory:

1. Harvest rain water wherever possible to cope up water shortage problems after rains.
2. Proper drainage systems may be made in and around the crop fields and near the sheds of birds and animals.
3. Provide clean drinking water for birds and animals. Avoid leakage of rain water in sheds.
4. Avoid draining of muddy water in culture ponds, also liming may be done @300kg/ha to improve water quality in ponds. Raise the level of ridges around the fish ponds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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	Direct seeding with drum seeder		- Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative		- Avoid water logging if it rains heavy.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		- Avoid water logging if it rains heavy.
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
Passion fruit	Fruiting		- Avoid water logging if it rains heavy.
		Fruit Fly	- Spray Malathion @ 5 ml/lit of water to control fruit fly after rains.
Ginger/ Turmeric	Vegetative		- Avoid water logging if it rains heavy.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Tree bean	Planting		- After rains prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting 1 ½ to 2 yrs old healthy seedling.
	Pre-bearing plant (4-5 yrs. old)		- After rains, for pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cucurbits	Fruiting to harvesting		- Avoid fruits of cucurbits to touch soil. - Avoid water logging if it rains heavy.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Endoparasites	- De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.



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	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		Management	- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
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.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field	Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field may be converted into trench/pond for fish culture.	

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 2nd July, 2019

District: Imphal West

Past weather for the of Imphal West (28th June to 1st July, 19): 10.3 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy during morning hours of 30 th June morning and afternoon hours of 1 st July. Maximum temperature ranged from 29.2 – 33.1 °C and minimum of 21.5 – 23.0 °C. Mean relative humidity of 88.3 % max & 64.3 % min was recorded in the past four days & average wind speed was 2.9 – 4.2 km/ hr.	Weather forecast for Imphal West (3rd to 7th July, 2019): Likely to have light rains upto Thursday and widespread moderate to heavy rains from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 25-26 °C. Relative humidity may reach upto 98 % (max) & 61 % (min). The average wind speed may be 3-5 km/hr.
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General Advisory:

1. Harvest rain water wherever possible to cope up water shortage problems after rains.
2. Proper drainage systems may be made in and around the crop fields and near the sheds of birds and animals.
3. Provide clean drinking water for birds and animals. Avoid leakage of rain water in sheds.
4. Avoid draining of muddy water in culture ponds, also liming may be done @300kg/ha to improve water quality in ponds. Raise the level of ridges around the fish ponds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Transplanting of 25-30 days old rice seedlings may be done with rains in next five days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
	Direct seeding with drum seeder		- Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative		- Avoid water logging if it rains heavy.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		- Avoid water logging if it rains heavy.
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
Passion fruit	Fruiting		- Avoid water logging if it rains heavy.
		Fruit Fly	- Spray Malathion @ 5 ml/lit of water to control fruit fly after rains.
Ginger/ Turmeric	Vegetative		- Avoid water logging if it rains heavy.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Tree bean	Planting		- After rains prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting 1 ½ to 2 yrs old healthy seedling.
	Pre-bearing plant (4-5 yrs. old)		- After rains, for pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cucurbits	Fruiting to harvesting		- Avoid fruits of cucurbits to touch soil. - Avoid water logging if it rains heavy.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Endoparasites	- De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.



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	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		Management	- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
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.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field	Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field may be converted into trench/pond for fish culture.	

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 2nd July, 2019

District: Senapati

Past weather for the of Imphal West (28th June to 1st July, 19):

10.3 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy during morning hours of 30th June morning and afternoon hours of 1st July. Maximum temperature ranged from 29.2 – 33.1 °C and minimum of 21.5 – 23.0 °C. Mean relative humidity of 88.3 % max & 64.3 % min was recorded in the past four days & average wind speed was 2.9 – 4.2 km/ hr.

Weather forecast for Senapati (3rd to 7th July, 2019):

Likely to have light rains upto Thursday and widespread moderate to heavy rains from Friday. The sky will remain mainly cloudy to overcast with max. temp. 28-30 °C & mini. temp. 23 °C. Relative humidity may reach upto 99 % (max) & 83 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Harvest rain water wherever possible to cope up water shortage problems after rains.
2. Proper drainage systems may be made in and around the crop fields and near the sheds of birds and animals.
3. Provide clean drinking water for birds and animals. Avoid leakage of rain water in sheds.
4. Avoid draining of muddy water in culture ponds, also liming may be done @300kg/ha to improve water quality in ponds. Raise the level of ridges around the fish ponds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Transplanting of 25-30 days old rice seedlings may be done with rains in next five days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
	Direct seeding with drum seeder		- Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative		- Avoid water logging if it rains heavy.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		- Avoid water logging if it rains heavy.
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
Passion fruit	Fruiting		- Avoid water logging if it rains heavy.
		Fruit Fly	- Spray Malathion @ 5 ml/lit of water to control fruit fly after rains.
Ginger/ Turmeric	Vegetative		- Avoid water logging if it rains heavy.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Tree bean	Planting		- After rains prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting 1 ½ to 2 yrs old healthy seedling.
	Pre-bearing plant (4-5 yrs. old)		- After rains, for pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cucurbits	Fruiting to harvesting		- Avoid fruits of cucurbits to touch soil. - Avoid water logging if it rains heavy.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Endoparasites	- De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.



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	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		Management	- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
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.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field	Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field may be converted into trench/pond for fish culture.	

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 2nd July, 2019

District: Tamenglong

Past weather for the of Imphal West (28th June to 1st July, 19):

10.3 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy during morning hours of 30th June morning and afternoon hours of 1st July. Maximum temperature ranged from 29.2 – 33.1 °C and minimum of 21.5 – 23.0 °C. Mean relative humidity of 88.3 % max & 64.3 % min was recorded in the past four days & average wind speed was 2.9 – 4.2 km/ hr.

Weather forecast for Tamenglong (3rd to 7th July, 2019):

Likely to have light rains upto Thursday and widespread moderate to heavy rains from Friday. The sky will remain mainly cloudy to overcast with max. temp. 28-30 °C & mini. temp. 23 °C. Relative humidity may reach upto 99 % (max) & 79 % (min). The average wind speed may be 3 km/hr.

General Advisory:

1. Harvest rain water wherever possible to cope up water shortage problems after rains.
2. Proper drainage systems may be made in and around the crop fields and near the sheds of birds and animals.
3. Provide clean drinking water for birds and animals. Avoid leakage of rain water in sheds.
4. Avoid draining of muddy water in culture ponds, also liming may be done @300kg/ha to improve water quality in ponds. Raise the level of ridges around the fish ponds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Transplanting of 25-30 days old rice seedlings may be done with rains in next five days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
	Direct seeding with drum seeder		- Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative		- Avoid water logging if it rains heavy.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		- Avoid water logging if it rains heavy.
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
Passion fruit	Fruiting		- Avoid water logging if it rains heavy.
		Fruit Fly	- Spray Malathion @ 5 ml/lit of water to control fruit fly after rains.
Ginger/ Turmeric	Vegetative		- Avoid water logging if it rains heavy.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Tree bean	Planting		- After rains prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting 1 ½ to 2 yrs old healthy seedling.
	Pre-bearing plant (4-5 yrs. old)		- After rains, for pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cucurbits	Fruiting to harvesting		- Avoid fruits of cucurbits to touch soil. - Avoid water logging if it rains heavy.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Endoparasites	- De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.



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	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		Management	- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
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.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field	Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field may be converted into trench/pond for fish culture.	

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 2nd July, 2019*District: Thoubal***Past weather for the of Imphal West (28th June to 1st July, 19):**

10.3 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy during morning hours of 30th June morning and afternoon hours of 1st July. Maximum temperature ranged from 29.2 – 33.1 °C and minimum of 21.5 – 23.0 °C. Mean relative humidity of 88.3 % max & 64.3 % min was recorded in the past four days & average wind speed was 2.9 – 4.2 km/ hr.

Weather forecast for Thoubal (3rd to 7th July, 2019):

Likely to have light rains upto Thursday and widespread moderate to heavy rains from Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 25-26 °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 wherever possible to cope up water shortage problems after rains.
2. Proper drainage systems may be made in and around the crop fields and near the sheds of birds and animals.
3. Provide clean drinking water for birds and animals. Avoid leakage of rain water in sheds.
4. Avoid draining of muddy water in culture ponds, also liming may be done @300kg/ha to improve water quality in ponds. Raise the level of ridges around the fish ponds.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Transplanting of 25-30 days old rice seedlings may be done with rains in next five days. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3 rd week of July (for late transplanting).
	Direct seeding with drum seeder		- Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Kharif maize	Vegetative		- Avoid water logging if it rains heavy.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Vegetative		- Avoid water logging if it rains heavy.
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
Passion fruit	Fruiting		- Avoid water logging if it rains heavy.
		Fruit Fly	- Spray Malathion @ 5 ml/lit of water to control fruit fly after rains.
Ginger/ Turmeric	Vegetative		- Avoid water logging if it rains heavy.
Khasi Mandarin	For grown up trees		After rains, apply 450 g Urea, 1000 g SSP, 400 g MOP and 50 g Borax per plant. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litres of water and Imidachloprid @ 5 ml/10 lit water.
Kachai Lemon			After rains, apply 400 g Urea, 550 g SSP, 250 g MOP and 50 g Borax. Spray Ridomil @ 2.5 g/lit or Carbandazim @ 10 g/15 litre water and Imidachloprid @ 5 ml/10 lit water.
Tree bean	Planting		- After rains prepare the pit of size 3x3x3 feet in upland area. Incorporate the top soil with 7 kg FYM + 2-3g of Carbendazim per pit before planting 1 ½ to 2 yrs old healthy seedling.
	Pre-bearing plant (4-5 yrs. old)		- After rains, for pre-bearing plant (4-5 yrs old) apply 10g Urea + 40g DAP + 10g MOP per plant and spray Thiachlorpid 21.7% SC @ 1ml/ lit of water + Carbendazim @ 1g/ lit of water.
Cucurbits	Fruiting to harvesting		- Avoid fruits of cucurbits to touch soil. - Avoid water logging if it rains heavy.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Endoparasites	- De-worm using Piperazine citrate. - Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
		coli bacillosis	Add sanitizer in drinking water and avoid muddy water for drinking purpose.



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	Faciolasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Endoparasite/ Ectoparasite	- Inject Parid @ 1 ml/ 50 kg body weight.
		Management	- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed. - Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.
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.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery:			
Carp culture	nurseries	Pond and water	- Maintain water depth at 1.0-1.5m for stocking fish spawns. Apply lime @300kg/ha. Apply a mixture of raw cow dung @ 5000kg/ha +75 kg urea + 75kg SSP in nursery pond water 15 days before spawn stocking.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day.
		Fish	20-30 million spawn can be stocked in one ha pond.
	Grow -out	Pond and water	Regular manuring may be done with a slurry of Raw Cow Dung @1500kg/ha at 30 days interval.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field	Trenches/channels in rice field with a depth of 1.0 - 1.5m should be made. 30-40% of the field may be converted into trench/pond for fish culture.	

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