

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 26th July, 2019**District: Thoubal****Past weather for the of Imphal West (23rd to 25th July, 19):**

5.1 mm rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 30.3 – 31.0 °C and minimum of 22.5 – 22.7 °C. Mean relative humidity of 89.7 % max & 65.3 % min was recorded in the past three days & average wind speed was 2.6 – 5.0 km/ hr.

Weather forecast for Thoubal (27th to 31st July, 2019):

Likely to have light to moderate rains upto Wednesday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 23-24 °C. Relative humidity may reach upto 99 % (max) & 67 % (min). The average wind speed may be 4-6 km/hr.

General Advisory:

1. Monitor insect pest infestation and water requirement in the crop field.
2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm.
		Thrips	- Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting.
		Bacterial Leaf Blight	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Leaf folder	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
Kharif maize	Cob formation		- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative	Tikka disease	- Avoid water logging in the crop field.
		hairy caterpillars	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Millet	Sowing		- 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).
Seed storage	Post-harvest Management		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
			- 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
Cole crops	Nursery		Raise cole crops (mid-season variety) nurseries under low cost poly-house. Drench the soil and treat seed with Carbendazim @2g/ kg seeds.
Early Cauliflower	Nursery to transplanting		- For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
			- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidachloprid @ 3ml/10lit of water.
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.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- 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 Anthelmintics 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	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits
		Fish	Select fully matured male and female brood fish for induced breeding
Hatchery Unit	1. Use only clean hapas (if hapa breeding is done) and incubators 2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity) 3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.		

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 26th July, 2019

District: Ukhrul

Past weather for the of Imphal West (23rd to 25th July, 19):

5.1 mm rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 30.3 – 31.0 °C and minimum of 22.5 – 22.7 °C. Mean relative humidity of 89.7 % max & 65.3 % min was recorded in the past three days & average wind speed was 2.6 – 5.0 km/ hr.

Weather forecast for Ukhrul (27th to 31st July, 2019):

Likely to have light to moderate rains upto Wednesday. The sky will remain mainly cloudy to overcast with max. temp. 28-29 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 99 % (max) & 70 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Monitor insect pest infestation and water requirement in the crop field.
2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm.
		Thrips	- Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting.
		Bacterial Leaf Blight	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Leaf folder	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
Kharif maize	Cob formation		- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative	Tikka disease	- Avoid water logging in the crop field.
		hairy caterpillars	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Millet	Sowing		- 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).
Seed storage	Post-harvest Management		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
			- 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
Cole crops	Nursery		Raise cole crops (mid-season variety) nurseries under low cost poly-house. Drench the soil and treat seed with Carbendazim @2g/ kg seeds.
Early Cauliflower	Nursery to transplanting		- For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
			- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthrachnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidachloprid @ 3ml/10lit of water.
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.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- 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 Anthelmintics 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	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits
		Fish	Select fully matured male and female brood fish for induced breeding
Hatchery Unit	1. Use only clean hapas (if hapa breeding is done) and incubators 2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity) 3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.		

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 26th July, 2019**District: Bishnupur****Past weather for the of Imphal West (23rd to 25th July, 19):**

5.1 mm rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 30.3 – 31.0 °C and minimum of 22.5 – 22.7 °C. Mean relative humidity of 89.7 % max & 65.3 % min was recorded in the past three days & average wind speed was 2.6 – 5.0 km/ hr.

Weather forecast for Bishnupur (27th to 31st July, 2019):

Likely to have light to moderate rains upto Wednesday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 23-24 °C. Relative humidity may reach upto 99 % (max) & 63 % (min). The average wind speed may be 3-6 km/hr.

General Advisory:

1. Monitor insect pest infestation and water requirement in the crop field.
2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm.
		Thrips	- Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting.
		Bacterial Leaf Blight	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Leaf folder	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
Kharif maize	Cob formation		- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative	Tikka disease	- Avoid water logging in the crop field.
		hairy caterpillars	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Millet	Sowing		- 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).
Seed storage	Post-harvest Management		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
			- 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
Cole crops	Nursery		Raise cole crops (mid-season variety) nurseries under low cost poly-house. Drench the soil and treat seed with Carbendazim @2g/ kg seeds.
Early Cauliflower	Nursery to transplanting		- For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
			- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidachloprid @ 3ml/10lit of water.
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.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- 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 Anthelmintics 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	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits
		Fish	Select fully matured male and female brood fish for induced breeding
Hatchery Unit	1. Use only clean hapas (if hapa breeding is done) and incubators 2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity) 3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.		

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 26th July, 2019**District: Chandel****Past weather for the of Imphal West (23rd to 25th July, 19):**

5.1 mm rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 30.3 – 31.0 °C and minimum of 22.5 – 22.7 °C. Mean relative humidity of 89.7 % max & 65.3 % min was recorded in the past three days & average wind speed was 2.6 – 5.0 km/ hr.

Weather forecast for Chandel (27th to 31st July, 2019):

Likely to have light to moderate rains upto Wednesday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 23-24 °C. Relative humidity may reach upto 99 % (max) & 64 % (min). The average wind speed may be 3-5 km/hr.

General Advisory:

1. Monitor insect pest infestation and water requirement in the crop field.
2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm.
		Thrips	- Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting.
		Bacterial Leaf Blight	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Leaf folder	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
Kharif maize	Cob formation		- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative	Tikka disease	- Avoid water logging in the crop field.
		hairy caterpillars	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Millet	Sowing		- 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).
Seed storage	Post-harvest Management		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
			- 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
Cole crops	Nursery		Raise cole crops (mid-season variety) nurseries under low cost poly-house. Drench the soil and treat seed with Carbendazim @2g/ kg seeds.
Early Cauliflower	Nursery to transplanting		- For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
			- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidachloprid @ 3ml/10lit of water.
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.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- 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 Anthelmintics 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	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits
		Fish	Select fully matured male and female brood fish for induced breeding
Hatchery Unit	<ol style="list-style-type: none">1. Use only clean hapas (if hapa breeding is done) and incubators2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity)3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.		

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 26th July, 2019**District: Churachandpur****Past weather for the of Imphal West (23rd to 25th July, 19):**

5.1 mm rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 30.3 – 31.0 °C and minimum of 22.5 – 22.7 °C. Mean relative humidity of 89.7 % max & 65.3 % min was recorded in the past three days & average wind speed was 2.6 – 5.0 km/ hr.

Weather forecast for Churachandpur (27th to 31st July, 2019):

Likely to have light to moderate rains upto Wednesday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 23-24 °C. Relative humidity may reach upto 99 % (max) & 68 % (min). The average wind speed may be 2-4 km/hr.

General Advisory:

1. Monitor insect pest infestation and water requirement in the crop field.
2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm.
		Thrips	- Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting.
		Bacterial Leaf Blight	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Leaf folder	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
Kharif maize	Cob formation		- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative	Tikka disease	- Avoid water logging in the crop field.
		hairy caterpillars	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Millet	Sowing		- 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).
Seed storage	Post-harvest Management		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
			- 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
Cole crops	Nursery		Raise cole crops (mid-season variety) nurseries under low cost poly-house. Drench the soil and treat seed with Carbendazim @2g/ kg seeds.
Early Cauliflower	Nursery to transplanting		- For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
			- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidachloprid @ 3ml/10lit of water.

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.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- 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 Anthelmintics 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	Seed production	Pond and Water	1. Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits
		Fish	Select fully matured male and female brood fish for induced breeding
Hatchery Unit	1. Use only clean hapas (if hapa breeding is done) and incubators 2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity) 3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.		

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 26th July, 2019**District: Imphal East****Past weather for the of Imphal West (23rd to 25th July, 19):**

5.1 mm rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 30.3 – 31.0 °C and minimum of 22.5 – 22.7 °C. Mean relative humidity of 89.7 % max & 65.3 % min was recorded in the past three days & average wind speed was 2.6 – 5.0 km/ hr.

Weather forecast for Imphal East (27th to 31st July, 2019):

Likely to have light to moderate rains upto Wednesday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 23-24 °C. Relative humidity may reach upto 98 % (max) & 61 % (min). The average wind speed may be 3-5 km/hr.

General Advisory:

1. Monitor insect pest infestation and water requirement in the crop field.
2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm.
		Thrips	- Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting.
		Bacterial Leaf Blight	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Leaf folder	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
Kharif maize	Cob formation		- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative	Tikka disease	- Avoid water logging in the crop field.
		hairy caterpillars	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Millet	Sowing		- 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).
Seed storage	Post-harvest Management		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
			- 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
Cole crops	Nursery		Raise cole crops (mid-season variety) nurseries under low cost poly-house. Drench the soil and treat seed with Carbendazim @2g/ kg seeds.
Early Cauliflower	Nursery to transplanting		- For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
			- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidachloprid @ 3ml/10lit of water.
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.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- 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 Anthelmintics 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	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits
		Fish	Select fully matured male and female brood fish for induced breeding
Hatchery Unit	<ol style="list-style-type: none">1. Use only clean hapas (if hapa breeding is done) and incubators2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity)3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.		

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 26th July, 2019**District: Imphal West****Past weather for the of Imphal West (23rd to 25th July, 19):**

5.1 mm rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 30.3 – 31.0 °C and minimum of 22.5 – 22.7 °C. Mean relative humidity of 89.7 % max & 65.3 % min was recorded in the past three days & average wind speed was 2.6 – 5.0 km/ hr.

Weather forecast for Imphal West (27th to 31st July, 2019):

Likely to have light to moderate rains upto Wednesday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 23-24 °C. Relative humidity may reach upto 98 % (max) & 77 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Monitor insect pest infestation and water requirement in the crop field.
2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm.
		Thrips	- Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting.
		Bacterial Leaf Blight	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Leaf folder	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
Kharif maize	Cob formation		- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative	Tikka disease	- Avoid water logging in the crop field.
		hairy caterpillars	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Millet	Sowing		- 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).
Seed storage	Post-harvest Management		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
			- 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
Cole crops	Nursery		Raise cole crops (mid-season variety) nurseries under low cost poly-house. Drench the soil and treat seed with Carbendazim @2g/ kg seeds.
Early Cauliflower	Nursery to transplanting		- For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
			- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidachloprid @ 3ml/10lit of water.
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.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- 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 Anthelmintics 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	Seed production	Pond and Water	1. Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits
		Fish	Select fully matured male and female brood fish for induced breeding
Hatchery Unit	<ol style="list-style-type: none">1. Use only clean hapas (if hapa breeding is done) and incubators2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity)3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.		

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 26th July, 2019*District: Senapati***Past weather for the of Imphal West (23rd to 25th July, 19):**

5.1 mm rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 30.3 – 31.0 °C and minimum of 22.5 – 22.7 °C. Mean relative humidity of 89.7 % max & 65.3 % min was recorded in the past three days & average wind speed was 2.6 – 5.0 km/ hr.

Weather forecast for Senapati (27th to 31st July, 2019):

Likely to have light to moderate rains upto Wednesday. The sky will remain mainly cloudy to overcast with max. temp. 28-29 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 99 % (max) & 73 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Monitor insect pest infestation and water requirement in the crop field.
2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm.
		Thrips	- Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting.
		Bacterial Leaf Blight	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Leaf folder	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
Kharif maize	Cob formation		- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative	Tikka disease	- Avoid water logging in the crop field.
		hairy caterpillars	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Millet	Sowing		- 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).
Seed storage	Post-harvest Management		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
			- 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
Cole crops	Nursery		Raise cole crops (mid-season variety) nurseries under low cost poly-house. Drench the soil and treat seed with Carbendazim @2g/ kg seeds.
Early Cauliflower	Nursery to transplanting		- For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
			- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidachloprid @ 3ml/10lit of water.
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.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- 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 Anthelmintics 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	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits
		Fish	Select fully matured male and female brood fish for induced breeding
Hatchery Unit	1. Use only clean hapas (if hapa breeding is done) and incubators 2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity) 3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.		

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 26th July, 2019**District: Tamenglong****Past weather for the of Imphal West (23rd to 25th July, 19):**

5.1 mm rainfall was observed during the past three days. The skies remained partly cloudy to mainly cloudy. Maximum temperature ranged from 30.3 – 31.0 °C and minimum of 22.5 – 22.7 °C. Mean relative humidity of 89.7 % max & 65.3 % min was recorded in the past three days & average wind speed was 2.6 – 5.0 km/ hr.

Weather forecast for Tamenglong (27th to 31st July, 2019):

Likely to have light to moderate rains upto Wednesday. The sky will remain mainly cloudy to overcast with max. temp. 28-29 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 99 % (max) & 72 % (min). The average wind speed may be 2-4 km/hr.

General Advisory:

1. Monitor insect pest infestation and water requirement in the crop field.
2. Sprays of insects pest mentioned below may be done before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Main field preparation and transplanting		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm.
		Thrips	- Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting.
		Bacterial Leaf Blight	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyriphos @ 1ml/ litre water against Thrips.
		Leaf folder	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
Kharif maize	Cob formation		- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Sowing to Vegetative	Tikka disease	- Avoid water logging in the crop field.
		hairy caterpillars	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Millet	Sowing		- 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).
Seed storage	Post-harvest Management		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
			- Line sowing at a spacing of 25-30cm row to row with depth of 2-3cm.
			- 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
Cole crops	Nursery		Raise cole crops (mid-season variety) nurseries under low cost poly-house. Drench the soil and treat seed with Carbendazim @2g/ kg seeds.
Early Cauliflower	Nursery to transplanting		- For nursery raising of early cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
			- Transplanting of raised seedlings may be done. Add 10kg urea + 50 kg DAP + 40 kg MOP with 10 cart loads of FYM per sangam as basal dose at final land preparation.
			- Transplant healthy seedlings at a spacing of 45cm x 45cm.
Turmeric + French Bean	Rhizome formation in turmeric		- Sow short duration crop like Pant Anupam as intercrop with turmeric.
			- Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Chilli	Fruiting to harvesting	Anthracnose	- After harvesting mature fruits, spray Mancozeb @ 2 g/ lit of water at 7 to 10 days interval twice or thrice depending upon the incidence.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil Gold @ 2g/lit water + Imidachloprid @ 3ml/10lit of water.
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.
		Coccidiosis	- Give antibiotic like Sulpha drug @ 30-40 ml/ 100 birds.
			- 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 Anthelmintics 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	Seed production	Pond and Water	1.Water depth should be maintained at 2.0 m 2. Apply lime 30 Kg/ha every 30 days interval
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits
		Fish	Select fully matured male and female brood fish for induced breeding
Hatchery Unit	1. Use only clean hapas (if hapa breeding is done) and incubators 2. Put only recommended no. of eggs in the hatching pools (1.0-1.2 millions of eggs/1.4 diameter, 0.98 m height and 1275 litre of water capacity) 3. Supply only good water quality having optimum dissolved oxygen and PH level for hatching.		

(I. Meghachandra Singh)
Nodal Officer, GKMS