

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30<sup>th</sup> July, 2019*District: Tamenglong***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> July, 19):**

41.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 27.2 – 31.7 °C and minimum of 21.4 – 23.0 °C. Mean relative humidity of 91.0 % max & 69 % min was recorded in the past four days & average wind speed was 2.2 – 6.4 km/ hr.

**Weather forecast for Tamenglong (31<sup>st</sup> July to 4<sup>th</sup> Aug., 2019):**

Likely to have light rains upto Sunday but moderate rains on Friday. The sky will remain mainly cloudy to overcast with max. temp. 28-32 °C & mini. temp. 21-23 °C. Relative humidity may reach upto 99% (max) & 93 % (min). The average wind speed may be 2-4 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible.
2. Harvest mature crops before rains.
3. Avoid inter-culture operations during rainy days.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Kharif Rice</b>	Transplanting and early vegetative		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. - Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. - One hand weeding may be done at 20-30 days after transplanting.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyrifos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
<b>Kharif maize</b>	Cob formation		- Avoid water logging in the crop field.
<b>Soybean/ Groundnut/ Blackgram/ Rice Bean</b>	Sowing to Vegetative	Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
<b>Millet</b>	Sowing		- 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.
<b>Seed storage</b>	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.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Passion fruit</b>	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
<b>Early Cauliflower</b>	Nursery to transplanting		- For nursery raising of cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select mid-season varieties like White flash, etc. - Transplanting of raised early variety seedlings. 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.
<b>Cucurbits</b>	Fruiting and harvesting		- Monitor for powdery mildew/ downey mildew. - Canopy pruning (removal of unwanted leaves and foliage) may be done for proper aeration and sunshine.
<b>King Chilli</b>	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. - 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 <sub>2</sub> ) 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	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: 30<sup>th</sup> July, 2019*District: Thoubal***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> July, 19):**

41.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 27.2 – 31.7 °C and minimum of 21.4 – 23.0 °C. Mean relative humidity of 91.0 % max & 69 % min was recorded in the past four days & average wind speed was 2.2 – 6.4 km/ hr.

**Weather forecast for Thoubal (31<sup>st</sup> July to 4<sup>th</sup> Aug., 2019):**

Likely to have light rains upto Sunday but moderate rains on Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 24-25 °C. Relative humidity may reach upto 99% (max) & 91 % (min). The average wind speed may be 3-4 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible.
2. Harvest mature crops before rains.
3. Avoid inter-culture operations during rainy days.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Kharif Rice</b>	Transplanting and early vegetative		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. - Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. - One hand weeding may be done at 20-30 days after transplanting.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyrphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
<b>Kharif maize</b>	Cob formation		- Avoid water logging in the crop field.
<b>Soybean/ Groundnut/ Blackgram/ Rice Bean</b>	Sowing to Vegetative	Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
<b>Millet</b>	Sowing		- 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.
<b>Seed storage</b>	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.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Passion fruit</b>	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
<b>Early Cauliflower</b>	Nursery to transplanting		- For nursery raising of cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select mid-season varieties like White flash, etc. - Transplanting of raised early variety seedlings. 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.
<b>Cucurbits</b>	Fruiting and harvesting		- Monitor for powdery mildew/ downey mildew. - Canopy pruning (removal of unwanted leaves and foliage) may be done for proper aeration and sunshine.
<b>King Chilli</b>	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. - 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 <sub>2</sub> ) 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	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: 30<sup>th</sup> July, 2019*District: Ukhrul***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> July, 19):**

41.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 27.2 – 31.7 °C and minimum of 21.4 – 23.0 °C. Mean relative humidity of 91.0 % max & 69 % min was recorded in the past four days & average wind speed was 2.2 – 6.4 km/ hr.

**Weather forecast for Ukhrul (31<sup>st</sup> July to 4<sup>th</sup> Aug., 2019):**

Likely to have light rains upto Sunday but moderate rains on Friday. The sky will remain mainly cloudy to overcast with max. temp. 28-32 °C & mini. temp. 21-23 °C. Relative humidity may reach upto 99% (max) & 91 % (min). The average wind speed may be 3 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible.
2. Harvest mature crops before rains.
3. Avoid inter-culture operations during rainy days.

<b>Field Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Transplanting and early vegetative		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. - Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. - One hand weeding may be done at 20-30 days after transplanting.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyrphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
<b>Kharif maize</b>	Cob formation		- Avoid water logging in the crop field.
<b>Soybean/ Groundnut/ Blackgram/ Rice Bean</b>	Sowing to Vegetative	Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
<b>Millet</b>	Sowing		- 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.
<b>Seed storage</b>	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.
<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Passion fruit</b>	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
<b>Early Cauliflower</b>	Nursery to transplanting		- For nursery raising of cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select mid-season varieties like White flash, etc. - Transplanting of raised early variety seedlings. 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.
<b>Cucurbits</b>	Fruiting and harvesting		- Monitor for powdery mildew/ downey mildew. - Canopy pruning (removal of unwanted leaves and foliage) may be done for proper aeration and sunshine.
<b>King Chilli</b>	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. - 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 <sub>2</sub> ) 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	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: 30<sup>th</sup> July, 2019*District: Bishnupur***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> July, 19):**

41.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 27.2 – 31.7 °C and minimum of 21.4 – 23.0 °C. Mean relative humidity of 91.0 % max & 69 % min was recorded in the past four days & average wind speed was 2.2 – 6.4 km/ hr.

**Weather forecast for Bishnupur (31<sup>st</sup> July to 4<sup>th</sup> Aug., 2019):**

Likely to have light rains upto Sunday but moderate rains on Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 24-25 °C. Relative humidity may reach upto 99% (max) & 93 % (min). The average wind speed may be 1-4 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible.
2. Harvest mature crops before rains.
3. Avoid inter-culture operations during rainy days.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Kharif Rice</b>	Transplanting and early vegetative		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. - Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. - One hand weeding may be done at 20-30 days after transplanting.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyrifos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
<b>Kharif maize</b>	Cob formation		- Avoid water logging in the crop field.
<b>Soybean/ Groundnut/ Blackgram/ Rice Bean</b>	Sowing to Vegetative	Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
<b>Millet</b>	Sowing		- 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.
<b>Seed storage</b>	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.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Passion fruit</b>	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
<b>Early Cauliflower</b>	Nursery to transplanting		- For nursery raising of cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select mid-season varieties like White flash, etc. - Transplanting of raised early variety seedlings. 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.
<b>Cucurbits</b>	Fruiting and harvesting		- Monitor for powdery mildew/ downey mildew. - Canopy pruning (removal of unwanted leaves and foliage) may be done for proper aeration and sunshine.
<b>King Chilli</b>	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
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		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 <sub>2</sub> ) 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	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
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		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: 30<sup>th</sup> July, 2019**District: Chandel****Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> July, 19):**

41.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 27.2 – 31.7 °C and minimum of 21.4 – 23.0 °C. Mean relative humidity of 91.0 % max & 69 % min was recorded in the past four days & average wind speed was 2.2 – 6.4 km/ hr.

**Weather forecast for Chandel (31<sup>st</sup> July to 4<sup>th</sup> Aug., 2019):**

Likely to have light rains upto Sunday but moderate rains on Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 24-25 °C. Relative humidity may reach upto 98% (max) & 86 % (min). The average wind speed may be 2-4 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible.
2. Harvest mature crops before rains.
3. Avoid inter-culture operations during rainy days.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Kharif Rice</b>	Transplanting and early vegetative		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. - Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. - One hand weeding may be done at 20-30 days after transplanting.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyrifos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
<b>Kharif maize</b>	Cob formation		- Avoid water logging in the crop field.
<b>Soybean/ Groundnut/ Blackgram/ Rice Bean</b>	Sowing to Vegetative	Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
<b>Millet</b>	Sowing		- 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.
<b>Seed storage</b>	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.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Passion fruit</b>	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
<b>Early Cauliflower</b>	Nursery to transplanting		- For nursery raising of cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select mid-season varieties like White flash, etc. - Transplanting of raised early variety seedlings. 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.
<b>Cucurbits</b>	Fruiting and harvesting		- Monitor for powdery mildew/ downey mildew. - Canopy pruning (removal of unwanted leaves and foliage) may be done for proper aeration and sunshine.
<b>King Chilli</b>	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. - 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 <sub>2</sub> ) 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	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: 30<sup>th</sup> July, 2019*District: Churachandpur***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> July, 19):**

41.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 27.2 – 31.7 °C and minimum of 21.4 – 23.0 °C. Mean relative humidity of 91.0 % max & 69 % min was recorded in the past four days & average wind speed was 2.2 – 6.4 km/ hr.

**Weather forecast for Churachandpur (31<sup>st</sup> July to 4<sup>th</sup> Aug., 2019):**

Likely to have light rains upto Sunday but moderate rains on Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 24-25 °C. Relative humidity may reach upto 99% (max) & 89 % (min). The average wind speed may be 2-3 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible.
2. Harvest mature crops before rains.
3. Avoid inter-culture operations during rainy days.

<b>Field Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Transplanting and early vegetative		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. - Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. - One hand weeding may be done at 20-30 days after transplanting.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyrifos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
<b>Kharif maize</b>	Cob formation		- Avoid water logging in the crop field.
<b>Soybean/ Groundnut/ Blackgram/ Rice Bean</b>	Sowing to Vegetative	Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
<b>Millet</b>	Sowing		- 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.
<b>Seed storage</b>	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.
<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Passion fruit</b>	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracoze	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
<b>Early Cauliflower</b>	Nursery to transplanting		- For nursery raising of cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select mid-season varieties like White flash, etc. - Transplanting of raised early variety seedlings. 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.
<b>Cucurbits</b>	Fruiting and harvesting		- Monitor for powdery mildew/ downey mildew. - Canopy pruning (removal of unwanted leaves and foliage) may be done for proper aeration and sunshine.
<b>King Chilli</b>	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. - 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 <sub>2</sub> ) 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	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: 30<sup>th</sup> July, 2019*District: Imphal West***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> July, 19):**

41.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 27.2 – 31.7 °C and minimum of 21.4 – 23.0 °C. Mean relative humidity of 91.0 % max & 69 % min was recorded in the past four days & average wind speed was 2.2 – 6.4 km/ hr.

**Weather forecast for Imphal West (31<sup>st</sup> July to 4<sup>th</sup> Aug., 2019):**

Likely to have light rains upto Sunday but moderate rains on Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 24-25 °C. Relative humidity may reach upto 99 % (max) & 80 % (min). The average wind speed may be 4 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible.
2. Harvest mature crops before rains.
3. Avoid inter-culture operations during rainy days.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Kharif Rice</b>	Transplanting and early vegetative		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. - Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. - One hand weeding may be done at 20-30 days after transplanting.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyrifos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
<b>Kharif maize</b>	Cob formation		- Avoid water logging in the crop field.
<b>Soybean/ Groundnut/ Blackgram/ Rice Bean</b>	Sowing to Vegetative	Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
<b>Millet</b>	Sowing		- 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.
<b>Seed storage</b>	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.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Passion fruit</b>	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
<b>Early Cauliflower</b>	Nursery to transplanting		- For nursery raising of cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select mid-season varieties like White flash, etc. - Transplanting of raised early variety seedlings. 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.
<b>Cucurbits</b>	Fruiting and harvesting		- Monitor for powdery mildew/ downey mildew. - Canopy pruning (removal of unwanted leaves and foliage) may be done for proper aeration and sunshine.
<b>King Chilli</b>	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. - 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 <sub>2</sub> ) 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	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: 30<sup>th</sup> July, 2019*District: Imphal East***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> July, 19):**

41.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 27.2 – 31.7 °C and minimum of 21.4 – 23.0 °C. Mean relative humidity of 91.0 % max & 69 % min was recorded in the past four days & average wind speed was 2.2 – 6.4 km/ hr.

**Weather forecast for Imphal East (31<sup>st</sup> July to 4<sup>th</sup> Aug., 2019):**

Likely to have light rains upto Sunday but moderate rains on Friday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 24-25 °C. Relative humidity may reach upto 97% (max) & 92 % (min). The average wind speed may be 3-5 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible.
2. Harvest mature crops before rains.
3. Avoid inter-culture operations during rainy days.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Kharif Rice</b>	Transplanting and early vegetative		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. - Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. - One hand weeding may be done at 20-30 days after transplanting.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyrphos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
<b>Kharif maize</b>	Cob formation		- Avoid water logging in the crop field.
<b>Soybean/ Groundnut/ Blackgram/ Rice Bean</b>	Sowing to Vegetative	Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
<b>Millet</b>	Sowing		- 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.
<b>Seed storage</b>	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.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Passion fruit</b>	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
<b>Early Cauliflower</b>	Nursery to transplanting		- For nursery raising of cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select mid-season varieties like White flash, etc. - Transplanting of raised early variety seedlings. 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.
<b>Cucurbits</b>	Fruiting and harvesting		- Monitor for powdery mildew/ downey mildew. - Canopy pruning (removal of unwanted leaves and foliage) may be done for proper aeration and sunshine.
<b>King Chilli</b>	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. - 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 <sub>2</sub> ) 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	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: 30<sup>th</sup> July, 2019*District: Senapati***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> July, 19):**

41.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast. Maximum temperature ranged from 27.2 – 31.7 °C and minimum of 21.4 – 23.0 °C. Mean relative humidity of 91.0 % max & 69 % min was recorded in the past four days & average wind speed was 2.2 – 6.4 km/ hr.

**Weather forecast for Senapati (31<sup>st</sup> July to 4<sup>th</sup> Aug., 2019):**

Likely to have light rains upto Sunday but moderate rains on Friday. The sky will remain mainly cloudy to overcast with max. temp. 28-32 °C & mini. temp. 21-23 °C. Relative humidity may reach upto 99% (max) & 97 % (min). The average wind speed may be 3-4 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible.
2. Harvest mature crops before rains.
3. Avoid inter-culture operations during rainy days.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Kharif Rice</b>	Transplanting and early vegetative		- Maintain a thin film of water upto 7 days after transplanting. Then increase water to 5-8cm. - Weed control: Apply Butachlor @ 25 kg/ha within one week of transplanting. - One hand weeding may be done at 20-30 days after transplanting.
		Thrips	- Use Blue Sticky Cards @ 4 cards/ sangam or spray Chloropyrifos @ 1ml/ litre water against Thrips.
		Bacterial Leaf Blight	- Spray Streptocycline @ 3g/ litre water against Bacterial Leaf Blight.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water.
<b>Kharif maize</b>	Cob formation		- Avoid water logging in the crop field.
<b>Soybean/ Groundnut/ Blackgram/ Rice Bean</b>	Sowing to Vegetative	Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
		hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
<b>Millet</b>	Sowing		- 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.
<b>Seed storage</b>	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Passion fruit</b>	Fruiting	Collar rot	- Spray Redomil MZ-27 WP @ 2.5 g/lit water and drench soil with 1% Bordeaux mixture.
		Anthracnose	- Spray Carbendazim + Mancozeb @ 1mg/ lit water.
		Fruit fly	- Spray Carbaryl 0.1% or Malathion 0.05% or poison baiting with jaggery + fruit juice+ Malathion (20:20:1) @ 40-50 baits/ ha.
<b>Early Cauliflower</b>	Nursery to transplanting		- For nursery raising of cauliflower in 10-15cm high beds under temporary rain shelter in upland area, apply 1-2 kg FYM/ m <sup>2</sup> of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select mid-season varieties like White flash, etc. - Transplanting of raised early variety seedlings. 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.
<b>Cucurbits</b>	Fruiting and harvesting		- Monitor for powdery mildew/ downey mildew. - Canopy pruning (removal of unwanted leaves and foliage) may be done for proper aeration and sunshine.
<b>King Chilli</b>	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. - 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 <sub>2</sub> ) 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	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.		

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