

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23<sup>rd</sup> August, 2019*District: Thoubal***Past weather for the of Imphal West (20<sup>th</sup> to 22<sup>nd</sup> August, 2019):**

0.4 mm rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy but partly cloudy during afternoon hours of 20<sup>th</sup> and morning hours of 22<sup>nd</sup> Aug. Maximum temperature ranged from 31.0 – 31.7 °C and minimum of 21.2 – 23.4 °C. Mean relative humidity of 84 % max & 60.7 % min was recorded in the past four days & average wind speed was 2.2 – 3.3 km/ hr.

**Weather forecast for Thoubal (24<sup>th</sup> to 28<sup>th</sup> August, 2019):**

Likely to have light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast upto Sunday then partly cloudy upto Wednesday with max. temp. 32-37 °C & mini. temp. 24-26 °C. Relative humidity may reach upto 99 % (max) & 85 % (min). The average wind speed may be 5 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible. Add sanitizer in drinking water of birds and animals during rainy days.
2. Harvest mature crops after rains. Insect-pest sprays, fertilizer application and inter-culture operations may be done after rains.

<b>Field Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Tillering		- Maintain water level of 5-8 cm in the crop field.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
		Leaf folder, borer	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
<b>Soybean/ Groundnut/ Rice Bean</b>	Flowering	Rust in Soybean	- Avoid weeding. - Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water after rains to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
<b>Millet</b>	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done after rains at a spacing of 25-30cm row to row with depth of 2-3cm.
<b>Blackgram</b>	Sowing to vegetative		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm after rains.
<b>Potato</b>	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
<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>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Ginger</b>	Rhizome formation	Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
<b>Cauliflower</b>	Vegetative		- Avoid water logging in crop field.
<b>Fruit plants (Mango, Litchi, guava)</b>	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any damage to the plant and also avoid breakage of earth ball.
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be started after rains.
<b>Turmeric</b>	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after rains.

**Animal Sciences**



Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			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	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	- Provide wholesome water.
Goat	All age groups except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Fishery:			
Carp culture	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

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23<sup>rd</sup> August, 2019

District: Ukhrul

**Past weather for the of Imphal West (20<sup>th</sup> to 22<sup>nd</sup> August, 2019):**

0.4 mm rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy but partly cloudy during afternoon hours of 20<sup>th</sup> and morning hours of 22<sup>nd</sup> Aug. Maximum temperature ranged from 31.0 – 31.7 °C and minimum of 21.2 – 23.4 °C. Mean relative humidity of 84 % max & 60.7 % min was recorded in the past four days & average wind speed was 2.2 – 3.3 km/ hr.

**Weather forecast for Ukhrul (24<sup>th</sup> to 28<sup>th</sup> August, 2019):**

Likely to have light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast upto Sunday then partly cloudy upto Wednesday with max. temp. 30-32 °C & mini. temp. 21-23 °C. Relative humidity may reach upto 99 % (max) & 77 % (min). The average wind speed may be 3-4 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible. Add sanitizer in drinking water of birds and animals during rainy days.
2. Harvest mature crops after rains. Insect-pest sprays, fertilizer application and inter-culture operations may be done after rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering		- Maintain water level of 5-8 cm in the crop field.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
		Leaf folder, borer	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
Soybean/ Groundnut/ Rice Bean	Flowering	Rust in Soybean	- Avoid weeding. - Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water after rains to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done after rains at a spacing of 25-30cm row to row with depth of 2-3cm.
Blackgram	Sowing to vegetative		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm after rains.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Cauliflower	Vegetative		- Avoid water logging in crop field.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any damage to the plant and also avoid breakage of earth ball.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be started after rains.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after rains.

**Animal Sciences**



Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			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	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	- Provide wholesome water.
Goat	All age groups except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Fishery:			
Carp culture	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

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23<sup>rd</sup> August, 2019*District: Bishnupur***Past weather for the of Imphal West (20<sup>th</sup> to 22<sup>nd</sup> August, 2019):**

0.4 mm rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy but partly cloudy during afternoon hours of 20<sup>th</sup> and morning hours of 22<sup>nd</sup> Aug. Maximum temperature ranged from 31.0 – 31.7 °C and minimum of 21.2 – 23.4 °C. Mean relative humidity of 84 % max & 60.7 % min was recorded in the past four days & average wind speed was 2.2 – 3.3 km/ hr.

**Weather forecast for Bishnupur (24<sup>th</sup> to 28<sup>th</sup> August, 2019):**

Likely to have light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast upto Sunday then partly cloudy upto Wednesday with max. temp. 31-35 °C & mini. temp. 24-26 °C. Relative humidity may reach upto 99 % (max) & 82 % (min). The average wind speed may be 3-5 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible. Add sanitizer in drinking water of birds and animals during rainy days.
2. Harvest mature crops after rains. Insect-pest sprays, fertilizer application and inter-culture operations may be done after rains.

<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>	Tillering		- Maintain water level of 5-8 cm in the crop field.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
		Leaf folder, borer	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
<b>Soybean/ Groundnut/ Rice Bean</b>	Flowering	Rust in Soybean	- Avoid weeding. - Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water after rains to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
<b>Millet</b>	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done after rains at a spacing of 25-30cm row to row with depth of 2-3cm.
<b>Blackgram</b>	Sowing to vegetative		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm after rains.
<b>Potato</b>	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
<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>Ginger</b>	Rhizome formation	Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
<b>Cauliflower</b>	Vegetative		- Avoid water logging in crop field.
<b>Fruit plants (Mango, Litchi, guava)</b>	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any damage to the plant and also avoid breakage of earth ball.
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be started after rains.
<b>Turmeric</b>	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after rains.

**Animal Sciences**



Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			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	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	- Provide wholesome water.
Goat	All age groups except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Fishery:			
Carp culture	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

(I. Meghachandra Singh)  
Nodal Officer, GKMS



**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23<sup>rd</sup> August, 2019*District: Chandel***Past weather for the of Imphal West (20<sup>th</sup> to 22<sup>nd</sup> August, 2019):**

0.4 mm rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy but partly cloudy during afternoon hours of 20<sup>th</sup> and morning hours of 22<sup>nd</sup> Aug. Maximum temperature ranged from 31.0 – 31.7 °C and minimum of 21.2 – 23.4 °C. Mean relative humidity of 84 % max & 60.7 % min was recorded in the past four days & average wind speed was 2.2 – 3.3 km/ hr.

**Weather forecast for Chandel (24<sup>th</sup> to 28<sup>th</sup> August, 2019):**

Likely to have light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast upto Sunday then partly cloudy upto Wednesday with max. temp. 32-35 °C & mini. temp. 23-25 °C. Relative humidity may reach upto 99 % (max) & 82 % (min). The average wind speed may be 4-5 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible. Add sanitizer in drinking water of birds and animals during rainy days.
2. Harvest mature crops after rains. Insect-pest sprays, fertilizer application and inter-culture operations may be done after rains.

<b>Field Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Tillering		- Maintain water level of 5-8 cm in the crop field.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
		Leaf folder, borer	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
<b>Soybean/ Groundnut/ Rice Bean</b>	Flowering	Rust in Soybean	- Avoid weeding. - Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water after rains to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
<b>Millet</b>	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done after rains at a spacing of 25-30cm row to row with depth of 2-3cm.
<b>Blackgram</b>	Sowing to vegetative		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm after rains.
<b>Potato</b>	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
<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>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Ginger</b>	Rhizome formation	Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
<b>Cauliflower</b>	Vegetative		- Avoid water logging in crop field.
<b>Fruit plants (Mango, Litchi, guava)</b>	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any damage to the plant and also avoid breakage of earth ball.
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be started after rains.
<b>Turmeric</b>	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after rains.

**Animal Sciences**



Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			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	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	- Provide wholesome water.
Goat	All age groups except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Fishery:			
Carp culture	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

(I. Meghachandra Singh)  
Nodal Officer, GKMS



**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23<sup>rd</sup> August, 2019*District: Churachandpur***Past weather for the of Imphal West (20<sup>th</sup> to 22<sup>nd</sup> August, 2019):**

0.4 mm rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy but partly cloudy during afternoon hours of 20<sup>th</sup> and morning hours of 22<sup>nd</sup> Aug. Maximum temperature ranged from 31.0 – 31.7 °C and minimum of 21.2 – 23.4 °C. Mean relative humidity of 84 % max & 60.7 % min was recorded in the past four days & average wind speed was 2.2 – 3.3 km/ hr.

**Weather forecast for Churachandpur (24<sup>th</sup> to 28<sup>th</sup> August, 2019):**

Likely to have light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast upto Sunday then partly cloudy upto Wednesday with max. temp. 32-35 °C & mini. temp. 23-25 °C. Relative humidity may reach upto 99 % (max) & 76 % (min). The average wind speed may be 3 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible. Add sanitizer in drinking water of birds and animals during rainy days.
2. Harvest mature crops after rains. Insect-pest sprays, fertilizer application and inter-culture operations may be done after rains.

<b>Field Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Tillering		- Maintain water level of 5-8 cm in the crop field.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
		Leaf folder, borer	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
<b>Soybean/ Groundnut/ Rice Bean</b>	Flowering	Rust in Soybean	- Avoid weeding. - Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water after rains to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
<b>Millet</b>	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done after rains at a spacing of 25-30cm row to row with depth of 2-3cm.
<b>Blackgram</b>	Sowing to vegetative		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm after rains.
<b>Potato</b>	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
<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>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Ginger</b>	Rhizome formation	Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
<b>Cauliflower</b>	Vegetative		- Avoid water logging in crop field.
<b>Fruit plants (Mango, Litchi, guava)</b>	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any damage to the plant and also avoid breakage of earth ball.
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be started after rains.
<b>Turmeric</b>	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after rains.

**Animal Sciences**



Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			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	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	- Provide wholesome water.
Goat	All age groups except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Fishery:			
Carp culture	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

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23<sup>rd</sup> August, 2019*District: Imphal East***Past weather for the of Imphal West (20<sup>th</sup> to 22<sup>nd</sup> August, 2019):**

0.4 mm rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy but partly cloudy during afternoon hours of 20<sup>th</sup> and morning hours of 22<sup>nd</sup> Aug. Maximum temperature ranged from 31.0 – 31.7 °C and minimum of 21.2 – 23.4 °C. Mean relative humidity of 84 % max & 60.7 % min was recorded in the past four days & average wind speed was 2.2 – 3.3 km/ hr.

**Weather forecast for Imphal East (24<sup>th</sup> to 28<sup>th</sup> August, 2019):**

Likely to have light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast upto Sunday then partly cloudy upto Wednesday with max. temp. 32-35 °C & mini. temp. 23-25 °C. Relative humidity may reach upto 97 % (max) & 69 % (min). The average wind speed may be 4-5 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible. Add sanitizer in drinking water of birds and animals during rainy days.
2. Harvest mature crops after rains. Insect-pest sprays, fertilizer application and inter-culture operations may be done after rains.

<b>Field Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Tillering		- Maintain water level of 5-8 cm in the crop field.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
		Leaf folder, borer	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
<b>Soybean/ Groundnut/ Rice Bean</b>	Flowering	Rust in Soybean	- Avoid weeding. - Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water after rains to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
<b>Millet</b>	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done after rains at a spacing of 25-30cm row to row with depth of 2-3cm.
<b>Blackgram</b>	Sowing to vegetative		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm after rains.
<b>Potato</b>	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
<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>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Ginger</b>	Rhizome formation	Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
<b>Cauliflower</b>	Vegetative		- Avoid water logging in crop field.
<b>Fruit plants (Mango, Litchi, guava)</b>	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any damage to the plant and also avoid breakage of earth ball.
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be started after rains.
<b>Turmeric</b>	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after rains.

**Animal Sciences**



Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			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	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	- Provide wholesome water.
Goat	All age groups except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Fishery:			
Carp culture	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

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23<sup>rd</sup> August, 2019

District: Imphal West

**Past weather for the of Imphal West (20<sup>th</sup> to 22<sup>nd</sup> August, 2019):**

0.4 mm rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy but partly cloudy during afternoon hours of 20<sup>th</sup> and morning hours of 22<sup>nd</sup> Aug. Maximum temperature ranged from 31.0 – 31.7 °C and minimum of 21.2 – 23.4 °C. Mean relative humidity of 84 % max & 60.7 % min was recorded in the past four days & average wind speed was 2.2 – 3.3 km/ hr.

**Weather forecast for Imphal West (24<sup>th</sup> to 28<sup>th</sup> August, 2019):**

Likely to have light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast upto Sunday then partly cloudy upto Wednesday with max. temp. 32-35 °C & mini. temp. 23-25 °C. Relative humidity may reach upto 99 % (max) & 59 % (min). The average wind speed may be 3 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible. Construct proper drainage system in and around the crop field and sheds of birds and animals. Add sanitizer in drinking water of birds and animals during rainy days.
2. Harvest mature crops after rains. Insect-pest sprays, fertilizer application and inter-culture operations may be done after rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering		- Maintain water level of 5-8 cm in the crop field.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
		Leaf folder, borer	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
Soybean/ Groundnut/ Rice Bean	Flowering	Rust in Soybean	- Avoid weeding. - Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water after rains to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done after rains at a spacing of 25-30cm row to row with depth of 2-3cm.
Blackgram	Sowing to vegetative		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm after rains.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Cauliflower	Vegetative		- Avoid water logging in crop field.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any damage to the plant and also avoid breakage of earth ball.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be started after rains.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after rains.



Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			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	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	- Provide wholesome water.
Goat	All age groups except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Fishery:			
Carp culture	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

(I. Meghachandra Singh)  
 Nodal Officer, GKMS



**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23<sup>rd</sup> August, 2019

District: Senapati

**Past weather for the of Imphal West (20<sup>th</sup> to 22<sup>nd</sup> August, 2019):**

0.4 mm rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy but partly cloudy during afternoon hours of 20<sup>th</sup> and morning hours of 22<sup>nd</sup> Aug. Maximum temperature ranged from 31.0 – 31.7 °C and minimum of 21.2 – 23.4 °C. Mean relative humidity of 84 % max & 60.7 % min was recorded in the past four days & average wind speed was 2.2 – 3.3 km/ hr.

**Weather forecast for Senapati (24<sup>th</sup> to 28<sup>th</sup> August, 2019):**

Likely to have light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast upto Sunday then partly cloudy upto Wednesday with max. temp. 30-32 °C & mini. temp. 21-23 °C. Relative humidity may reach upto 99 % (max) & 75 % (min). The average wind speed may be 4 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible. Add sanitizer in drinking water of birds and animals during rainy days.
2. Harvest mature crops after rains. Insect-pest sprays, fertilizer application and inter-culture operations may be done after rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Tillering		- Maintain water level of 5-8 cm in the crop field.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
		Leaf folder, borer	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
Soybean/ Groundnut/ Rice Bean	Flowering	Rust in Soybean	- Avoid weeding. - Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water after rains to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
Millet	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done after rains at a spacing of 25-30cm row to row with depth of 2-3cm.
Blackgram	Sowing to vegetative		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm after rains.
Potato	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Rhizome formation	Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
Cauliflower	Vegetative		- Avoid water logging in crop field.
Fruit plants (Mango, Litchi, guava)	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any damage to the plant and also avoid breakage of earth ball.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be started after rains.
Turmeric	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after rains.

**Animal Sciences**



Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			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	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	- Provide wholesome water.
Goat	All age groups except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Fishery:			
Carp culture	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

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 23<sup>rd</sup> August, 2019*District: Tamenglong***Past weather for the of Imphal West (20<sup>th</sup> to 22<sup>nd</sup> August, 2019):**

0.4 mm rainfall was observed during the past three days. The skies remained mainly cloudy to cloudy but partly cloudy during afternoon hours of 20<sup>th</sup> and morning hours of 22<sup>nd</sup> Aug. Maximum temperature ranged from 31.0 – 31.7 °C and minimum of 21.2 – 23.4 °C. Mean relative humidity of 84 % max & 60.7 % min was recorded in the past four days & average wind speed was 2.2 – 3.3 km/ hr.

**Weather forecast for Tamenglong (24<sup>th</sup> to 28<sup>th</sup> August, 2019):**

Likely to have light to moderate rains upto Sunday. The sky will remain mainly cloudy to overcast upto Sunday then partly cloudy upto Wednesday with max. temp. 35-39 °C & mini. temp. 24-27 °C. Relative humidity may reach upto 99 % (max) & 68 % (min). The average wind speed may be 3 km/hr.

**General Advisory:**

1. Harvest rain water wherever possible. Add sanitizer in drinking water of birds and animals during rainy days.
2. Harvest mature crops after rains. Insect-pest sprays, fertilizer application and inter-culture operations may be done after rains.

<b>Field Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Tillering		- Maintain water level of 5-8 cm in the crop field.
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 litre of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
		Leaf folder, borer	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
<b>Soybean/ Groundnut/ Rice Bean</b>	Flowering	Rust in Soybean	- Avoid weeding. - Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- Spray Carbendazim @ 0.5g / lit of water after rains to control Tikka disease in groundnut or 3 sprayings of Bordeaux mixture (4:4:50) with linseed oil as sticker at an interval of 15 days are effective in checking the disease.
		Hairy caterpillars	- For control of red hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) after rains.
<b>Millet</b>	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done after rains at a spacing of 25-30cm row to row with depth of 2-3cm.
<b>Blackgram</b>	Sowing to vegetative		- Treat seeds of blackgram with talc formulation of <i>Trichoderma viride</i> @ 4g/kg of seed. In rainfed condition, dibble the seeds at a spacing of 25x10cm after rains.
<b>Potato</b>	Land preparation		- Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel.
<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>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Ginger</b>	Rhizome formation	Shoot Borer	- If larval infestation is observed in shoots then spray Malathion (0.1%) at monthly interval. Pruning of freshly infested shoots may also be done at 15 days interval.
<b>Cauliflower</b>	Vegetative		- Avoid water logging in crop field.
<b>Fruit plants (Mango, Litchi, guava)</b>	Nursery/ planting		Procure seedlings/ planting material of good strains of Mango, Litchi and Guava from reliable source. Foothills/ hill slope areas are desirable site for establishment of new orchards. Planting material/ nursery must be handled carefully to avoid any damage to the plant and also avoid breakage of earth ball.
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be started after rains.
<b>Turmeric</b>	Rhizome initiation	Taphrine leaf blotch and other leaf spot	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately with Sixer at 15 days interval after rains.

**Animal Sciences**



Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
		Coccidiosis	- As a preventive measure against Coccidiosis, provide Supercox @ 1g/ lit of water.
			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	Fascioliasis	- De-worming with suitable Anthelmatics against Faciolasis.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	- Provide wholesome water.
Goat	All age groups except three months or below	Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
Fishery:			
Carp culture	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

(I. Meghachandra Singh)  
Nodal Officer, GKMS