

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 27<sup>th</sup> August, 2019

District: Thoubal

**Past weather for the of Imphal West (23<sup>rd</sup> to 26<sup>th</sup> August, 2019):**

5.5 mm rainfall was observed during the past four days. The skies remained cloudy upto 24<sup>th</sup> and mainly clear to partly cloudy thereafter. 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 (28<sup>th</sup> Aug to 1<sup>st</sup> Sept, 2019):**

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 32-38 °C & mini. temp. 24-27 °C. Relative humidity may reach upto 100 % (max) & 66 % (min). The average wind speed may be 2-5 km/hr.

**General Advisory:**

1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
2. Mulching may be done to conserve available soil moisture.
3. Monitor insect-pest infestation in crops.

<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.
		Stem borer	- For stem borer, spray Chlorantraniliprole 23.5% @ 40 ml/ha.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
<b>Soybean/ Groundnut/ Rice Bean</b>	Flowering to fruiting/ pegging	Rust in Soybean	- Keep the plot clean to avoid insect pest infestation. - 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 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).
<b>Millet</b>	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done 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.
<b>Potato</b>	Land preparation		- Prepare land for planting potato for early crop and also for production of seed 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>	Nursery transplanting		Field preparation must be completed for transplanting of mid-season variety such as white flash and nursery site for next cauliflower crop such as Swetha may be started so as to give continuous supply to the market.
<b>Passion fruit</b>	Fruiting		- Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be started.



<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.
<b>King Chilli</b>	Flowering to fruiting		- Uproot and burn the disease infested plants. Spray of Trichoderma @ 10g/ litre of water may be given for control of disease.
		Dieback disease	- After removal of infested plants, drench the soil with copper oxychloride 75WP and give a foliar spray of Fipronil 0.5%SC @ 2ml/ litre of water.
		Leaf curl disease	- After removal of infested plants, spray Neem oil @ 5ml/ litre water to control white fly which is vector for transmission of the disease.

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	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.
<b>Pig</b>	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.
<b>Cattle</b>	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.
<b>Goat</b>	All age groups except three months or below	Fascioliasis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.

**Fishery:**

<b>Carp culture</b>	Seed production		
	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: 27<sup>th</sup> August, 2019

District: Ukhrul

**Past weather for the of Imphal West (23<sup>rd</sup> to 26<sup>th</sup> August, 2019):**

5.5 mm rainfall was observed during the past four days. The skies remained cloudy upto 24<sup>th</sup> and mainly clear to partly cloudy thereafter. 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 (28<sup>th</sup> Aug to 1<sup>st</sup> Sept, 2019):**

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 31-33 °C & mini. temp. 22 °C. Relative humidity may reach upto 97 % (max) & 70 % (min). The average wind speed may be 3-4 km/hr.

**General Advisory:**

1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
2. Mulching may be done to conserve available soil moisture.
3. Monitor insect-pest infestation in crops.

<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 Imidachlopid @ 8ml/ 15 litres of water after rains.
		Stem borer	- For stem borer, spray Chlorantraniliprole 23.5% @ 40 ml/ha.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
<b>Soybean/ Groundnut/ Rice Bean</b>	Flowering to fruiting/ pegging	Rust in Soybean	- Keep the plot clean to avoid insect pest infestation. - 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 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).
<b>Millet</b>	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done 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.
<b>Potato</b>	Land preparation		- Prepare land for planting potato for early crop and also for production of seed 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>	Nursery transplanting		Field preparation must be completed for transplanting of mid-season variety such as white flash and nursery site for next cauliflower crop such as Swetha may be started so as to give continuous supply to the market.
<b>Passion fruit</b>	Fruiting		- Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be started.



<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.
<b>King Chilli</b>	Flowering to fruiting		- Uproot and burn the disease infested plants. Spray of Trichoderma @ 10g/ litre of water may be given for control of disease.
		Dieback disease	- After removal of infested plants, drench the soil with copper oxychloride 75WP and give a foliar spray of Fipronil 0.5%SC @ 2ml/ litre of water.
		Leaf curl disease	- After removal of infested plants, spray Neem oil @ 5ml/ litre water to control white fly which is vector for transmission of the disease.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	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.
<b>Pig</b>	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.
<b>Cattle</b>	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.
<b>Goat</b>	All age groups except three months or below	Fascioliasis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
<b>Fishery:</b>			
<b>Carp culture</b>	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: 27<sup>th</sup> August, 2019

District: Bishnupur

**Past weather for the of Imphal West (23<sup>rd</sup> to 26<sup>th</sup> August, 2019):**

5.5 mm rainfall was observed during the past four days. The skies remained cloudy upto 24<sup>th</sup> and mainly clear to partly cloudy thereafter. 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 (28<sup>th</sup> Aug to 1<sup>st</sup> Sept, 2019):**

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 32-38 °C & mini. temp. 24-27 °C. Relative humidity may reach upto 100 % (max) & 66 % (min). The average wind speed may be 2-5 km/hr.

**General Advisory:**

1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
2. Mulching may be done to conserve available soil moisture.
3. Monitor insect-pest infestation in crops.

Field Crops			
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		Stem borer	- For stem borer, spray Chlorantraniliprole 23.5% @ 40 ml/ha.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
Soybean/ Groundnut/ Rice Bean	Flowering to fruiting/ pegging	Rust in Soybean	- Keep the plot clean to avoid insect pest infestation. - 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 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).
Millet	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done 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.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed 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	Nursery transplanting		Field preparation must be completed for transplanting of mid-season variety such as white flash and nursery site for next cauliflower crop such as Swetha may be started so as to give continuous supply to the market.
Passion fruit	Fruiting		- Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggary + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be started.



<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.
<b>King Chilli</b>	Flowering to fruiting		- Uproot and burn the disease infested plants. Spray of Trichoderma @ 10g/ litre of water may be given for control of disease.
		Dieback disease	- After removal of infested plants, drench the soil with copper oxychloride 75WP and give a foliar spray of Fipronil 0.5%SC @ 2ml/ litre of water.
		Leaf curl disease	- After removal of infested plants, spray Neem oil @ 5ml/ litre water to control white fly which is vector for transmission of the disease.

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	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.
<b>Pig</b>	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.
<b>Cattle</b>	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.
<b>Goat</b>	All age groups except three months or below	Fascioliasis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.

**Fishery:**

<b>Carp culture</b>	Seed production		
	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: 27<sup>th</sup> August, 2019

District: Chandel

**Past weather for the of Imphal West (23<sup>rd</sup> to 26<sup>th</sup> August, 2019):**

5.5 mm rainfall was observed during the past four days. The skies remained cloudy upto 24<sup>th</sup> and mainly clear to partly cloudy thereafter. 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 (28<sup>th</sup> Aug to 1<sup>st</sup> Sept, 2019):**

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**General Advisory:**

1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
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Field Crops			
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**Animal Sciences**

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**Fishery:**

<b>Carp culture</b>	Seed production		
	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: 27<sup>th</sup> August, 2019

District: Churachandpur

<b>Past weather for the of Imphal West (23<sup>rd</sup> to 26<sup>th</sup> August, 2019):</b> 5.5 mm rainfall was observed during the past four days. The skies remained cloudy upto 24 <sup>th</sup> and mainly clear to partly cloudy thereafter. 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.	<b>Weather forecast for Churachandpur (28<sup>th</sup> Aug to 1<sup>st</sup> Sept, 2019):</b> Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 34-38 °C & mini. temp. 25-27 °C. Relative humidity may reach upto 97 % (max) & 62 % (min). The average wind speed may be 3-5 km/hr.
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**General Advisory:**

1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
2. Mulching may be done to conserve available soil moisture.
3. Monitor insect-pest infestation in crops.

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.
		Stem borer	- For stem borer, spray Chlorantraniliprole 23.5% @ 40 ml/ha.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
Soybean/ Groundnut/ Rice Bean	Flowering to fruiting/ pegging	Rust in Soybean	- Keep the plot clean to avoid insect pest infestation. - 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 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).
Millet	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done 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.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed 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	Nursery transplanting		Field preparation must be completed for transplanting of mid-season variety such as white flash and nursery site for next cauliflower crop such as Swetha may be started so as to give continuous supply to the market.
Passion fruit	Fruiting		- Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be started.



<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.
<b>King Chilli</b>	Flowering to fruiting		- Uproot and burn the disease infested plants. Spray of Trichoderma @ 10g/ litre of water may be given for control of disease.
		Dieback disease	- After removal of infested plants, drench the soil with copper oxychloride 75WP and give a foliar spray of Fipronil 0.5%SC @ 2ml/ litre of water.
		Leaf curl disease	- After removal of infested plants, spray Neem oil @ 5ml/ litre water to control white fly which is vector for transmission of the disease.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	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.
<b>Pig</b>	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.
<b>Cattle</b>	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.
<b>Goat</b>	All age groups except three months or below	Fascioliasis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
<b>Fishery:</b>			
<b>Carp culture</b>	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: 27<sup>th</sup> August, 2019

District: Imphal East

**Past weather for the of Imphal West (23<sup>rd</sup> to 26<sup>th</sup> August, 2019):**

5.5 mm rainfall was observed during the past four days. The skies remained cloudy upto 24<sup>th</sup> and mainly clear to partly cloudy thereafter. 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 (28<sup>th</sup> Aug to 1<sup>st</sup> Sept, 2019):**

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 31-33 °C & mini. temp. 22 °C. Relative humidity may reach upto 97 % (max) & 64 % (min). The average wind speed may be 3-6 km/hr.

**General Advisory:**

1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
2. Mulching may be done to conserve available soil moisture.
3. Monitor insect-pest infestation in crops.

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.
		Stem borer	- For stem borer, spray Chlorantraniliprole 23.5% @ 40 ml/ha.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
Soybean/ Groundnut/ Rice Bean	Flowering to fruiting/ pegging	Rust in Soybean	- Keep the plot clean to avoid insect pest infestation. - 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 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).
Millet	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done 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.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed 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	Nursery transplanting		Field preparation must be completed for transplanting of mid-season variety such as white flash and nursery site for next cauliflower crop such as Swetha may be started so as to give continuous supply to the market.
Passion fruit	Fruiting		- Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggary + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be started.



<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.
<b>King Chilli</b>	Flowering to fruiting		- Uproot and burn the disease infested plants. Spray of Trichoderma @ 10g/ litre of water may be given for control of disease.
		Dieback disease	- After removal of infested plants, drench the soil with copper oxychloride 75WP and give a foliar spray of Fipronil 0.5%SC @ 2ml/ litre of water.
		Leaf curl disease	- After removal of infested plants, spray Neem oil @ 5ml/ litre water to control white fly which is vector for transmission of the disease.

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	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.
<b>Pig</b>	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.
<b>Cattle</b>	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.
<b>Goat</b>	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:**

<b>Carp culture</b>	Seed production		
	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: 27<sup>th</sup> August, 2019

District: Imphal West

**Past weather for the of Imphal West (23<sup>rd</sup> to 26<sup>th</sup> August, 2019):**

5.5 mm rainfall was observed during the past four days. The skies remained cloudy upto 24<sup>th</sup> and mainly clear to partly cloudy thereafter. 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 (28<sup>th</sup> Aug to 1<sup>st</sup> Sept, 2019):**

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 31-33 °C & mini. temp. 22 °C. Relative humidity may reach upto 99 % (max) & 67 % (min). The average wind speed may be 2-3 km/hr.

**General Advisory:**

1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
2. Mulching may be done to conserve available soil moisture.
3. Monitor insect-pest infestation in crops.

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.
		Stem borer	- For stem borer, spray Chlorantraniliprole 23.5% @ 40 ml/ha.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
Soybean/ Groundnut/ Rice Bean	Flowering to fruiting/ pegging	Rust in Soybean	- Keep the plot clean to avoid insect pest infestation. - 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 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).
Millet	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done 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.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed 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	Nursery transplanting		Field preparation must be completed for transplanting of mid-season variety such as white flash and nursery site for next cauliflower crop such as Swetha may be started so as to give continuous supply to the market.
Passion fruit	Fruiting		- Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggary + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
Onion	Sowing/ planting		- Sowing of onion in the upland areas may be started.



<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.
<b>King Chilli</b>	Flowering to fruiting		- Uproot and burn the disease infested plants. Spray of Trichoderma @ 10g/ litre of water may be given for control of disease.
		Dieback disease	- After removal of infested plants, drench the soil with copper oxychloride 75WP and give a foliar spray of Fipronil 0.5%SC @ 2ml/ litre of water.
		Leaf curl disease	- After removal of infested plants, spray Neem oil @ 5ml/ litre water to control white fly which is vector for transmission of the disease.

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	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.
<b>Pig</b>	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.
<b>Cattle</b>	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.
<b>Goat</b>	All age groups except three months or below	Fascioliasis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.

**Fishery:**

<b>Carp culture</b>	Seed production		
	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: 27<sup>th</sup> August, 2019

District: Senapati

**Past weather for the of Imphal West (23<sup>rd</sup> to 26<sup>th</sup> August, 2019):**

5.5 mm rainfall was observed during the past four days. The skies remained cloudy upto 24<sup>th</sup> and mainly clear to partly cloudy thereafter. 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 (28<sup>th</sup> Aug to 1<sup>st</sup> Sept, 2019):**

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 31-33 °C & mini. temp. 22 °C. Relative humidity may reach upto 99 % (max) & 66 % (min). The average wind speed may be 3-4 km/hr.

**General Advisory:**

1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
2. Mulching may be done to conserve available soil moisture.
3. Monitor insect-pest infestation in crops.

<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.
		Stem borer	- For stem borer, spray Chlorantraniliprole 23.5% @ 40 ml/ha.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
<b>Soybean/ Groundnut/ Rice Bean</b>	Flowering to fruiting/ pegging	Rust in Soybean	- Keep the plot clean to avoid insect pest infestation. - 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 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).
<b>Millet</b>	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done 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.
<b>Potato</b>	Land preparation		- Prepare land for planting potato for early crop and also for production of seed 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>	Nursery transplanting		Field preparation must be completed for transplanting of mid-season variety such as white flash and nursery site for next cauliflower crop such as Swetha may be started so as to give continuous supply to the market.
<b>Passion fruit</b>	Fruiting		- Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggary + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be started.



<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.
<b>King Chilli</b>	Flowering to fruiting		- Uproot and burn the disease infested plants. Spray of Trichoderma @ 10g/ litre of water may be given for control of disease.
		Dieback disease	- After removal of infested plants, drench the soil with copper oxychloride 75WP and give a foliar spray of Fipronil 0.5%SC @ 2ml/ litre of water.
		Leaf curl disease	- After removal of infested plants, spray Neem oil @ 5ml/ litre water to control white fly which is vector for transmission of the disease.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	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.
<b>Pig</b>	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.
<b>Cattle</b>	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmintics against Fascioliasis.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	- Provide wholesome water.
<b>Goat</b>	All age groups except three months or below	Fascioliasis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
<b>Fishery:</b>			
<b>Carp culture</b>	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: 27<sup>th</sup> August, 2019

District: Tamenglong

<b>Past weather for the of Imphal West (23<sup>rd</sup> to 26<sup>th</sup> August, 2019):</b> 0.4 mm rainfall was observed during the past four 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.	<b>Weather forecast for Tamenglong (28<sup>th</sup> Aug to 1<sup>st</sup> Sept, 2019):</b> Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 31-33 °C & mini. temp. 22 °C. Relative humidity may reach upto 99 % (max) & 67 % (min). The average wind speed may be 3-4 km/hr.
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**General Advisory:**

1. Regularly monitor water requirement of the crops in the field. Give life-saving irrigation wherever possible.
2. Mulching may be done to conserve available soil moisture.
3. Monitor insect-pest infestation in crops.

<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.
		Stem borer	- For stem borer, spray Chlorantraniliprole 23.5% @ 40 ml/ha.
		Leaf folder	- Spray Lambdacythothrin @ 15 ml/ 15 litre water after rains.
<b>Soybean/ Groundnut/ Rice Bean</b>	Flowering to fruiting/ pegging	Rust in Soybean	- Keep the plot clean to avoid insect pest infestation. - 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 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).
<b>Millet</b>	Sowing to vegetative		- Treat seeds with Carbendazim @ 2g/ kg seeds before sowing. - Line sowing may be done 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.
<b>Potato</b>	Land preparation		- Prepare land for planting potato for early crop and also for production of seed 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>	Nursery transplanting		Field preparation must be completed for transplanting of mid-season variety such as white flash and nursery site for next cauliflower crop such as Swetha may be started so as to give continuous supply to the market.
<b>Passion fruit</b>	Fruiting		- Spray Carbaryl @ 1g/ lit water or apply poison baiting with jaggery + fruit juice + malathion (20:20:1) @ 40-50 baits/ ha to control fruit flies. - To protect the fruit from thrips damage apply Imidachlorpid 17.8% SL @ 1ml/ 4 lit of water. - For collar rot disease, spray copper fungicide or Redomil @ 2.5g/ lit of water and soil drenching with 1% Bordeaux mixture.
<b>Onion</b>	Sowing/ planting		- Sowing of onion in the upland areas may be started.



<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.
<b>King Chilli</b>	Flowering to fruiting		- Uproot and burn the disease infested plants. Spray of Trichoderma @ 10g/ litre of water may be given for control of disease.
		Dieback disease	- After removal of infested plants, drench the soil with copper oxychloride 75WP and give a foliar spray of Fipronil 0.5%SC @ 2ml/ litre of water.
		Leaf curl disease	- After removal of infested plants, spray Neem oil @ 5ml/ litre water to control white fly which is vector for transmission of the disease.
<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease/ Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	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.
<b>Pig</b>	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.
<b>Cattle</b>	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmintics against Faciolasis.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	- Provide wholesome water.
<b>Goat</b>	All age groups except three months or below	Fascioliasis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Endoparasite/ Ectoparasite	Deworm using Minthal bolus @ ½ bolus per 20 kg body weight accompanied with Livozyme @ 50ml daily.
<b>Fishery:</b>			
<b>Carp culture</b>	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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