

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 9th September, 2019

District: Thoubal

Past weather for the of Imphal West (6th to 8th Sept, 2019): 1.5 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during afternoon hours of 6 th Sept. Maximum temperature ranged from 30.3–31.0 °C and minimum of 23.2–23.6 °C. Mean relative humidity of 87 % max & 68 % min was recorded in the past three days & average wind speed was 2.9–3.5 km/ hr.	Weather forecast for Thoubal (10th to 14th Sept, 2019): Likely to have widespread light to moderate rains upto Saturday. The sky will remain mainly cloudy to overcast with max. temp. 28-32 °C & mini. temp. 23-25 °C. Relative humidity may reach upto 99% (max) & 97 % (min). The average wind speed may be 3-4 km/hr.
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General Advisory:

1. Harvest rain water if it rains.
2. Provide clean drinking water for birds and animals during rainy days.
3. Avoid inter-culture operations/ weeding/ fertilizer and insect pest sprays application during rainy days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- After rains, 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) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - Procure healthy good quality suitable variety seed tuber from reliable source.
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
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water against Citrus Psylla.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton @ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupama, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawaii (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
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.
Onion	Land preparation for sowing		- Land preparation for sowing of onion in the <i>hill areas</i> may be done where the temperature have become lower.
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.

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.
		Care & management	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Fascioliasis.
		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	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:			
Carp/ Catfish culture	Grow –out/ nurseries		<ul style="list-style-type: none"> - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 9th September, 2019

District: Ukhrul

Past weather for the of Imphal West (6th to 8th Sept, 2019): 1.5 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during afternoon hours of 6 th Sept. Maximum temperature ranged from 30.3–31.0 °C and minimum of 23.2–23.6 °C. Mean relative humidity of 87 % max & 68 % min was recorded in the past three days & average wind speed was 2.9–3.5 km/ hr.	Weather forecast for Ukhrul (10th to 14th Sept, 2019): Likely to have widespread light to moderate rains upto Saturday. The sky will remain mainly cloudy to overcast with max. temp. 29-33 °C & mini. temp. 24-25 °C. Relative humidity may reach upto 99% (max) & 96 % (min). The average wind speed may be 2-4 km/hr.
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General Advisory:

1. Harvest rain water if it rains.
2. Provide clean drinking water for birds and animals during rainy days.
3. Avoid inter-culture operations/ weeding/ fertilizer and insect pest sprays application during rainy days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- After rains, 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) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Seed storage	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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water against Citrus Psylla.
		Powdery Mildew	- Spray Mirador (Azoxytrobin023%) @ 1ml/litre of water or Bayleton @ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupama, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
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.
Onion	Land preparation for sowing		- Land preparation for sowing of onion in the <i>hill areas</i> may be done where the temperature have become lower.
Turmeric	Rhizome initiation	Taphrine leaf	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately



		blotch and other leaf spot	with Sixer at 15 days interval.
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.
		Care & management	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Facioliasis.
		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	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:			
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 9th September, 2019

District: Bishnupur

Past weather for the of Imphal West (6th to 8th Sept, 2019):

1.5 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during afternoon hours of 6th Sept. Maximum temperature ranged from 30.3–31.0 °C and minimum of 23.2–23.6 °C. Mean relative humidity of 87 % max & 68 % min was recorded in the past three days & average wind speed was 2.9–3.5 km/ hr.

Weather forecast for Bishnupur (10th to 14th Sept, 2019):

Likely to have widespread light to moderate rains upto Saturday. The sky will remain mainly cloudy to overcast with max. temp. 28-33 °C & mini. temp. 23-25 °C. Relative humidity may reach upto 100% (max) & 96 % (min). The average wind speed may be 2-3 km/hr.

General Advisory:

1. Harvest rain water if it rains.
2. Provide clean drinking water for birds and animals during rainy days.
3. Avoid inter-culture operations/ weeding/ fertilizer and insect pest sprays application during rainy days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- After rains, 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) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - Procure healthy good quality suitable variety seed tuber from reliable source.
Seed storage	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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water against Citrus Psylla.
		Powdery Mildew	- Spray Mirador (Azoxystrobin0.23%) @ 1ml/litre of water or Bayleton @ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupama, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawaii (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
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.
Onion	Land preparation for sowing		- Land preparation for sowing of onion in the <i>hill areas</i> may be done where the temperature have become lower.
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.

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.
		Care & management	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Fascioliasis.
		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	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:			
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 9th September, 2019

District: Chandel

Past weather for the of Imphal West (6th to 8th Sept, 2019): 1.5 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during afternoon hours of 6 th Sept. Maximum temperature ranged from 30.3–31.0 °C and minimum of 23.2–23.6 °C. Mean relative humidity of 87 % max & 68 % min was recorded in the past three days & average wind speed was 2.9–3.5 km/ hr.	Weather forecast for Chandel (10th to 14th Sept, 2019): Likely to have widespread light to moderate rains upto Saturday. The sky will remain mainly cloudy to overcast with max. temp. 28-33 °C & mini. temp. 24-26 °C. Relative humidity may reach upto 99% (max) & 98 % (min). The average wind speed may be 3 km/hr.
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General Advisory:

1. Harvest rain water if it rains.
2. Provide clean drinking water for birds and animals during rainy days.
3. Avoid inter-culture operations/ weeding/ fertilizer and insect pest sprays application during rainy days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- After rains, 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) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - Procure healthy good quality suitable variety seed tuber from reliable source.
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
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water against Citrus Psylla.
		Powdery Mildew	- Spray Mirador (Azoxystrobin023%) @ 1ml/litre of water or Bayleton @ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupama, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawaii (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
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.
Onion	Land preparation for sowing		- Land preparation for sowing of onion in the <i>hill areas</i> may be done where the temperature have become lower.
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.
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.
		Care & management	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Fascioliasis.
		Deworming	Use Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
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Goat	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.
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Fishery:			
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
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(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 9th September, 2019

District: Churachandpur

Past weather for the of Imphal West (6th to 8th Sept, 2019):

1.5 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during afternoon hours of 6th Sept. Maximum temperature ranged from 30.3–31.0 °C and minimum of 23.2–23.6 °C. Mean relative humidity of 87 % max & 68 % min was recorded in the past three days & average wind speed was 2.9–3.5 km/ hr.

Weather forecast for Churachandpur (10th to 14th Sept, 2019):

Likely to have widespread light to moderate rains upto Saturday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 24-25 °C. Relative humidity may reach upto 100% (max) & 93 % (min). The average wind speed may be 2-3 km/hr.

General Advisory:

1. Harvest rain water if it rains.
2. Provide clean drinking water for birds and animals during rainy days.
3. Avoid inter-culture operations/ weeding/ fertilizer and insect pest sprays application during rainy days.

Field Crops			
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Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- After rains, 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) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - Procure healthy good quality suitable variety seed tuber from reliable source.
Seed storage	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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water against Citrus Psylla.
		Powdery Mildew	- Spray Mirador (Azoxystrobin0.23%) @ 1ml/litre of water or Bayleton @ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupama, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawaii (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
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.
Onion	Land preparation for sowing		- Land preparation for sowing of onion in the <i>hill areas</i> may be done where the temperature have become lower.
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.

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.
		Care & management	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Fascioliasis.
		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	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:			
Carp/ Catfish culture	Grow –out/ nurseries		<ul style="list-style-type: none"> - Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 9th September, 2019

District: Imphal East

Past weather for the of Imphal West (6th to 8th Sept, 2019): 1.5 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during afternoon hours of 6 th Sept. Maximum temperature ranged from 30.3–31.0 °C and minimum of 23.2–23.6 °C. Mean relative humidity of 87 % max & 68 % min was recorded in the past three days & average wind speed was 2.9–3.5 km/ hr.	Weather forecast for Imphal East (10th to 14th Sept, 2019): Likely to have widespread light to moderate rains upto Saturday. The sky will remain mainly cloudy to overcast with max. temp. 29-33 °C & mini. temp. 23-25 °C. Relative humidity may reach upto 98% (max) & 89 % (min). The average wind speed may be 3-4 km/hr.
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General Advisory:

1. Harvest rain water if it rains.
2. Provide clean drinking water for birds and animals during rainy days.
3. Avoid inter-culture operations/ weeding/ fertilizer and insect pest sprays application during rainy days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- After rains, 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) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - Procure healthy good quality suitable variety seed tuber from reliable source.
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
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water against Citrus Psylla.
		Powdery Mildew	- Spray Mirador (Azoxystrobin0.23%) @ 1ml/litre of water or Bayleton @ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupama, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawaii (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
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.
Onion	Land preparation for sowing		- Land preparation for sowing of onion in the <i>hill areas</i> may be done where the temperature have become lower.
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.
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.
		Care & management	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Fascioliasis.
		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	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:			
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 9th September, 2019

District: Imphal West

Past weather for the of Imphal West (6th to 8th Sept, 2019):

1.5 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during afternoon hours of 6th Sept. Maximum temperature ranged from 30.3–31.0 °C and minimum of 23.2–23.6 °C. Mean relative humidity of 87 % max & 68 % min was recorded in the past three days & average wind speed was 2.9–3.5 km/ hr.

Weather forecast for Imphal West (10th to 14th Sept, 2019):

Likely to have widespread light to moderate rains upto Saturday. The sky will remain mainly cloudy to overcast with max. temp. 28-31 °C & mini. temp. 23-25 °C. Relative humidity may reach upto 99% (max) & 79 % (min). The average wind speed may be 2-4 km/hr.

General Advisory:

1. Harvest rain water if it rains.
2. Provide clean drinking water for birds and animals during rainy days.
3. Avoid inter-culture operations/ weeding/ fertilizer and insect pest sprays application during rainy days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- After rains, 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) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - Procure healthy good quality suitable variety seed tuber from reliable source.
Seed storage	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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water against Citrus Psylla.
		Powdery Mildew	- Spray Mirador (Azoxystrobin0.23%) @ 1ml/litre of water or Bayleton @ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupama, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawaii (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
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.
Onion	Land preparation for sowing		- Land preparation for sowing of onion in the <i>hill areas</i> may be done where the temperature have become lower.
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.
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.
		Care & management	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Fascioliasis.
		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	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:			
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 9th September, 2019

District: Senapati

Past weather for the of Imphal West (6th to 8th Sept, 2019):

1.5 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during afternoon hours of 6th Sept. Maximum temperature ranged from 30.3–31.0 °C and minimum of 23.2–23.6 °C. Mean relative humidity of 87 % max & 68 % min was recorded in the past three days & average wind speed was 2.9–3.5 km/ hr.

Weather forecast for Senapati (10th to 14th Sept, 2019):

Likely to have widespread light to moderate rains upto Saturday. The sky will remain mainly cloudy to overcast with max. temp. 30-33 °C & mini. temp. 24-25 °C. Relative humidity may reach upto 99% (max) & 96 % (min). The average wind speed may be 2-4 km/hr.

General Advisory:

1. Harvest rain water if it rains.
2. Provide clean drinking water for birds and animals during rainy days.
3. Avoid inter-culture operations/ weeding/ fertilizer and insect pest sprays application during rainy days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- After rains, 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) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Seed storage	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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water against Citrus Psylla.
		Powdery Mildew	- Spray Mirador (Azoxytrobin023%) @ 1ml/litre of water or Bayleton @ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupama, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
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.
Onion	Land preparation for sowing		- Land preparation for sowing of onion in the <i>hill areas</i> may be done where the temperature have become lower.
Turmeric	Rhizome initiation	Taphrine leaf	- Spray Redomil MZ 72 WP @ 2g/lit water at least two times alternately



		blotch and other leaf spot	with Sixer at 15 days interval.
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.
		Care & management	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Facioliasis.
		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	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:			
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 9th September, 2019

District: Tamenglong

Past weather for the of Imphal West (6th to 8th Sept, 2019):

1.5 mm rainfall was observed during the past three days. The skies remained mainly cloudy to overcast but mainly clear during afternoon hours of 6th Sept. Maximum temperature ranged from 30.3–31.0 °C and minimum of 23.2–23.6 °C. Mean relative humidity of 87 % max & 68 % min was recorded in the past three days & average wind speed was 2.9–3.5 km/ hr.

Weather forecast for Tamenglong (10th to 14th Sept, 2019):

Likely to have widespread light to moderate rains upto Saturday. The sky will remain mainly cloudy to overcast with max. temp. 29-33 °C & mini. temp. 24-25 °C. Relative humidity may reach upto 100% (max) & 92 % (min). The average wind speed may be 2-4 km/hr.

General Advisory:

1. Harvest rain water if it rains.
2. Provide clean drinking water for birds and animals during rainy days.
3. Avoid inter-culture operations/ weeding/ fertilizer and insect pest sprays application during rainy days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Panicle initiation		- Maintain water level of 5-8 cm in the crop field. - Apply 33 kg Urea/ha at panicle initiation stage after complete removal of water after rains. Irrigate field after 48 hrs of top dressing and maintain water level at 5-8 cm. If there is insect-pest infestations avoid fertilizer application.
		Sheath blight/ sheath rot	- Spray Propiconazole @ 15ml/ 15 lit water after rains. Preferably, drain out water from field before the spray.
		Aphid	Spray Fipronil @ 2g or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water after rains.
		Sucking insect	- Spray Imidachloprid @ 8ml/ 15 litres of water after rains.
Soybean/ Groundnut/ Rice Bean	Fruiting/ pegging	Rust in Soybean	- Spray Mancozeb 75%WP @ 1.25 to 2 kg/ ha at 7 to 10 days interval after rains.
		Tikka disease in groundnut	- After rains, 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) after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillar	Spray Chloropyriphos 20 EC @ 2.5 ml/ lit of water after rains.
Potato	Land preparation		- Prepare land for planting potato for early crop and also for production of seed in foothills and upland area. - Procure healthy good quality suitable variety seed tuber from reliable source.
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
Citrus (Lime/ lemon/ orange)	Nursery	Citrus Psylla	- Spray Imidachloprid 70% W.G. (Admire) @0.5g/ litre of water or Nuvan @ 0.5ml/litre of water against Citrus Psylla.
		Powdery Mildew	- Spray Mirador (Azoxystrobin0.23%) @ 1ml/litre of water or Bayleton @ 7g/15 litre water.
French Bean, Broad bean & Pea	Land preparation		Land preparation for sowing of french bean, broad bean and pea may be done. Recommended varieties for French bean are – Pant Anupama, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawaii (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm. And for pea, Arkel or Azad may be planted at a spacing of 10 cm x 30cm.
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.
Onion	Land preparation for sowing		- Land preparation for sowing of onion in the <i>hill areas</i> may be done where the temperature have become lower.
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.
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.
		Care & management	Proper ventilation must be provided to protect excessive heat during day time. Use water sanitizer in drinking water/potassium permanganate (few grains). Keep the litter dry & add 2 kg lime powder for 100 sq. ft. area and mix it properly.
Pig	Above 3 months of age	Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		Endo/ Ecto parasite or skin infection	- Inject Neomac @ 1 ml/ 10 kg body weight.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Fascioliasis	- De-worming with suitable Anthelmatics against Fascioliasis.
		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	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:			
Carp/ Catfish culture	Grow –out/ nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. - Feeds should be provided 2-3 times a day @ 5-10% body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. - 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	Provide Nutritionally well balanced feed @ 3.5% body weight per day in two splits

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