

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Ukhrul

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Ukhrul (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 28-29 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 95 % (max) & 58 % (min). The average wind speed may be 5-6 km/hr.

General Advisory:

- Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
- The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
- Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		- To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits			
	Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- Give Albendazole @30 ml per 100kg body weight.
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day.
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Imphal West

Block: Patsoi

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Patsoi (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 25.6-33.9 °C & mini. temp. 21-21.6°C. Relative humidity may reach upto 99 % (max) & 87 % (min). The average wind speed may be 5-9 km/hr.

General Advisory:

1. Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
2. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
3. Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		<ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		- To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits			
	Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- Give Albendazole @30 ml per 100kg body weight.
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day.
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Imphal West

Block: Wangoi

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Wangoi (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 26-34.2 °C & mini. temp. 21.2-21.7°C. Relative humidity may reach upto 98 % (max) & 78 % (min). The average wind speed may be 4-9 km/hr.

General Advisory:

- Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
- The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
- Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		- To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- Give Albendazole @30 ml per 100kg body weight.
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day.
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Imphal West

Block: Haorangsabai

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Haorangsabai (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 25.6-33.7 °C & mini. temp. 21-21.5°C. Relative humidity may reach upto 99 % (max) & 88 % (min). The average wind speed may be 4-8 km/hr.

General Advisory:

1. Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
2. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
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Type of Farming	Stage	Field	Agro-metrological advisories
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(I. Meghachandra Singh)
Nodal Officer, GKMS

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District: Imphal West

Block: Hiyangthang

Past weather for the of Imphal West (17th to 20th May, 19):

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Weather forecast for Hiyangthang (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 25.6-33.0 °C & mini. temp. 21-21.6°C. Relative humidity may reach upto 99 % (max) & 87 % (min). The average wind speed may be 4-9 km/hr.

General Advisory:

1. Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
2. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
3. Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		<ul style="list-style-type: none"> - Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		- To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits			
	Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- Give Albendazole @30 ml per 100kg body weight.
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day.
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Bishnupur

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Bishnupur (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 29-33 °C & mini. temp. 20-22 °C. Relative humidity may reach upto 99 % (max) & 82 % (min). The average wind speed may be 2-6 km/hr.

General Advisory:

1. Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
2. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
3. Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		- To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits			
	Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- Give Albendazole @30 ml per 100kg body weight.
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day.
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Chandel

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Chandel (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 29-33 °C & mini. temp. 20-22 °C. Relative humidity may reach upto 96 % (max) & 72 % (min). The average wind speed may be 4-8 km/hr.

General Advisory:

- Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
- The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
- Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambda cythrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		- To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- Give Albendazole @30 ml per 100kg body weight.
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day.
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Churachandpur

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Churachandpur (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 29-33 °C & mini. temp. 20-22 °C. Relative humidity may reach upto 99 % (max) & 89 % (min). The average wind speed may be 3-6 km/hr.

General Advisory:

- Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
- The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
- Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		<ul style="list-style-type: none"> Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- Give Albendazole @30 ml per 100kg body weight.
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day.
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Imphal East

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Imphal East (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 29-33 °C & mini. temp. 20-22 °C. Relative humidity may reach upto 94 % (max) & 61 % (min). The average wind speed may be 4-8 km/hr.

General Advisory:

1. Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
2. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
3. Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		- To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits		Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences				
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories	
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials. 	
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.	
		FMD	- Vaccinate against FMD after the age of 3 months.	
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.	
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.	
		Deworming	- Give Albendazole @30 ml per 100kg body weight.	
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.	
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.	
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.	
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.	
Fishery				
Type of Farming	Stage	Field	Agro-metrological advisories	
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. 	
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day. 	
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.	
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.				

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Imphal West

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Imphal West (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 31-33 °C & mini. temp. 20-22 °C. Relative humidity may reach upto 99 % (max) & 86 % (min). The average wind speed may be 4-6 km/hr.

General Advisory:

1. Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
2. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
3. Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambda cythrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		- To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits		Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences				
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories	
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials. 	
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.	
		FMD	- Vaccinate against FMD after the age of 3 months.	
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.	
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.	
		Deworming	- Give Albendazole @30 ml per 100kg body weight.	
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.	
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.	
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.	
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.	
Fishery				
Type of Farming	Stage	Field	Agro-metrological advisories	
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp. 	
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day. 	
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.	
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.				

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Senapati

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Senapati (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 28-29 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 97 % (max) & 77 % (min). The average wind speed may be 4-6 km/hr.

General Advisory:

- Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
- The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
- Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		- To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- Give Albendazole @30 ml per 100kg body weight.
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day.
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Tamenglong

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Tamenglong (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 28-29 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 99 % (max) & 92 % (min). The average wind speed may be 3-5 km/hr.

General Advisory:

1. Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
2. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
3. Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambda cythrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		- To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- Give Albendazole @30 ml per 100kg body weight.
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day.
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 21st May, 2019

District: Thoubal

Past weather for the of Imphal West (17th to 20th May, 19):

0.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy upto 18th then clear to partly cloudy on 19 and 20 May. Maximum temperature ranged from 27.9 – 32.5 °C and minimum of 17.6 – 21.6 °C. Mean relative humidity of 75.5 % max & 53.8 % min was recorded in the past four days & average wind speed was 4.4 – 6.9 km/ hr.

Weather forecast for Thoubal (22nd to 26th May, 2019):

Likely to have moderate to heavy rains from Thursday. The sky will remain mainly clear to partly cloudy upto 21st then mainly cloudy to overcast thereafter with max. temp. 29-33 °C & mini. temp. 20-22 °C. Relative humidity may reach upto 98 % (max) & 84 % (min). The average wind speed may be 4-10 km/hr.

General Advisory:

1. Provisions may be made to avoid water logging in and around the crop fields or birds/ animals sheds. Also, avoid escape of fishes from culture ponds. Encircle ponds with happa- net or increase the height of the ridges around the pond.
2. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.
3. Harvest rain water.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. - Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Panicle initiation to Flowering	Leaf folder and case worm	Apply Lambdacythothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Summer Maize	Cob maturity to harvesting		- To control Fall of Army worm, manual destruction of egg masses and caterpillars may be done. Pheromone traps @ 4/ha for monitoring and 10/ ha for mass trapping of adult insects may be done. Spray Green Racer (<i>Beauveria bassiana</i>) @ 3-5ml/ litre water, after 5-7 days spray Green Pacer (<i>Metarhizium anisoplae</i>) @ 3-5 ml/ litre water.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		It is recommended to apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Carbendazim or Captan @ 2g/kg seeds before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
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
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Tree bean	Planting		Planting of 2 to 2.5 yrs old tree bean should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mancozeb) @ 1 gm per pit may be incorporated in the soil before planting.
French Bean/ Bhindi	Vegetative to flowering		- Weeding may be done to avoid insect pest infestation.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.



Cucurbits	Flowering to fruiting		<ul style="list-style-type: none"> - Fruits of cucurbits like bottle gourd, water melon, pumpkin should not have direct contact with soil. Provide bedding material (dried twigs, leaves, polythene sheet). - If the crop is grown in slightly shady and damped area then spray Bayleton @ 7 gm/ litre of water once as prophylactic measure against powdery mildew.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		<ul style="list-style-type: none"> - Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. - Avoid caking of litter materials.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		FMD	- Vaccinate against FMD after the age of 3 months.
		Coccidial infection	- Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
		Deworming	- Give Albendazole @30 ml per 100kg body weight.
		Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
		Management	- Fly repellent must be used. Disinfection of farm and premises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"> - Pond should be free from insects, predators, aquatic weeds etc. - Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil. - Hormone like ovaprim, ovotide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.
	Nurseries	Pond and fish	<ul style="list-style-type: none"> - Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. - Feeding should be done 2-3 splits a day @3-5% body weight/day.
Paddy cum fish culture	Field		- Prepare trenches/channels in rice field of depth 1.0 - 1.5m can be start. 30-40% of the rice field can be converted into trenches/ditch/channels for paddy cum fish culture.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

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