

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 28th May, 2019*District: Tamenglong***Past weather for the of Imphal West (24th to 27th May, 19):**

13.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy and partly cloudy on 27th afternoon. Maximum temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C. Mean relative humidity of 87.5 % max & 68.3 % min was recorded in the past four days & average wind speed was 1.9-7.8 km/ hr.

Weather forecast for Tamenglong (29th May to 2nd June, 2019):

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain partly cloudy to cloudy with max. temp. 28-30 °C & mini. temp. 17-19 °C. Relative humidity may reach upto 99 % (max) & 36 % (min). The average wind speed may be 3-5 km/hr.

General Advisory:

1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauveria bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
2. Provisions may be made to harvest rain water.
3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

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	Grain filling	Leaf folder and case worm	<ul style="list-style-type: none"> Apply Lambda cythrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		<ul style="list-style-type: none"> - Sowing of kharif maize may be done after seed treatment with Carbendazim @ 2g/kg seeds. 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.
Soybean/ Groundnut/ Blackgram	Seed treatment to sowing		<ul style="list-style-type: none"> 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 Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre water or with Thiram 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.
Rice Bean	Seed treatment to sowing		<ul style="list-style-type: none"> Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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
Colocasia	Planting		<ul style="list-style-type: none"> - Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		<ul style="list-style-type: none"> - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		<ul style="list-style-type: none"> - Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin Beetle	<ul style="list-style-type: none"> - Use Methyl Euginol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Litchi	Nursery		<ul style="list-style-type: none"> Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



Lime/ Lemon	Transplanting		<ul style="list-style-type: none">- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source.- Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
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 primises 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	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 28th May, 2019*District: Thoubal***Past weather for the of Imphal West (24th to 27th May, 19):**

13.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy and partly cloudy on 27th afternoon. Maximum temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C. Mean relative humidity of 87.5 % max & 68.3 % min was recorded in the past four days & average wind speed was 1.9-7.8 km/ hr.

Weather forecast for Thoubal (29th May to 2nd June, 2019):

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain partly cloudy to cloudy with max. temp. 29-32 °C & mini. temp. 18-20 °C. Relative humidity may reach upto 97 % (max) & 30 % (min). The average wind speed may be 6-9 km/hr.

General Advisory:

1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauveria bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
2. Provisions may be made to harvest rain water.
3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

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	Grain filling	Leaf folder and case worm	<ul style="list-style-type: none"> Apply Lambda cythrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		<ul style="list-style-type: none"> - Sowing of kharif maize may be done after seed treatment with Carbendazim @ 2g/kg seeds. 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.
Soybean/ Groundnut/ Blackgram	Seed treatment to sowing		<ul style="list-style-type: none"> 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 Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre water or with Thiram 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.
Rice Bean	Seed treatment to sowing		<ul style="list-style-type: none"> Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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
Colocasia	Planting		<ul style="list-style-type: none"> - Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		<ul style="list-style-type: none"> - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		<ul style="list-style-type: none"> - Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin Beetle	<ul style="list-style-type: none"> - Use Methyl Euginol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Litchi	Nursery		<ul style="list-style-type: none"> Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



Lime/ Lemon	Transplanting		<ul style="list-style-type: none">- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source.- Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
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 primises 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	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 28th May, 2019

District: Ukhrul

Past weather for the of Imphal West (24th to 27th May, 19):

13.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy and partly cloudy on 27th afternoon. Maximum temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C. Mean relative humidity of 87.5 % max & 68.3 % min was recorded in the past four days & average wind speed was 1.9-7.8 km/ hr.

Weather forecast for Ukhrul (29th May to 2nd June, 2019):

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain partly cloudy to cloudy with max. temp. 28-30 °C & mini. temp. 17-19 °C. Relative humidity may reach upto 93 % (max) & 35 % (min). The average wind speed may be 4-6 km/hr.

General Advisory:

1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauveria bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
2. Provisions may be made to harvest rain water.
3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

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	Grain filling	Leaf folder and case worm	<ul style="list-style-type: none"> Apply Lambda cythrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		<ul style="list-style-type: none"> - Sowing of kharif maize may be done after seed treatment with Carbendazim @ 2g/kg seeds. 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.
Soybean/ Groundnut/ Blackgram	Seed treatment to sowing		<ul style="list-style-type: none"> 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 Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre water or with Thiram 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.
Rice Bean	Seed treatment to sowing		<ul style="list-style-type: none"> Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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
Colocasia	Planting		<ul style="list-style-type: none"> - Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		<ul style="list-style-type: none"> - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		<ul style="list-style-type: none"> - Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin Beetle	<ul style="list-style-type: none"> - Use Methyl Euginol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Litchi	Nursery		<ul style="list-style-type: none"> Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



Lime/ Lemon	Transplanting		<ul style="list-style-type: none">- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source.- Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
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 primises 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	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 28th May, 2019*District: Bishnupur***Past weather for the of Imphal West (24th to 27th May, 19):**

13.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy and partly cloudy on 27th afternoon. Maximum temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C. Mean relative humidity of 87.5 % max & 68.3 % min was recorded in the past four days & average wind speed was 1.9-7.8 km/ hr.

Weather forecast for Bishnupur (29th May to 2nd June, 2019):

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain partly cloudy to cloudy with max. temp. 30-32 °C & mini. temp. 19-20 °C. Relative humidity may reach upto 98 % (max) & 33 % (min). The average wind speed may be 3-6 km/hr.

General Advisory:

1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauveria bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
2. Provisions may be made to harvest rain water.
3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Pre-kharif Rice	Grain filling	Leaf folder and case worm	<ul style="list-style-type: none"> Apply Lambda cythrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
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Horticulture Crops			
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Cauliflower	Nursery		<ul style="list-style-type: none"> - Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Euginol as trap @ 4-10 traps/ sangam.
		Beetle	<ul style="list-style-type: none"> - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Litchi	Nursery		<ul style="list-style-type: none"> Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



Lime/ Lemon	Transplanting		<ul style="list-style-type: none">- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source.- Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
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Cattle	Above 3 months of age	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
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Type of Farming	Stage	Field	Agro-metrological advisories
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		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 28th May, 2019*District: Chandel***Past weather for the of Imphal West (24th to 27th May, 19):**

13.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy and partly cloudy on 27th afternoon. Maximum temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C. Mean relative humidity of 87.5 % max & 68.3 % min was recorded in the past four days & average wind speed was 1.9-7.8 km/ hr.

Weather forecast for Chandel (29th May to 2nd June, 2019):

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain partly cloudy to cloudy with max. temp. 29-32 °C & mini. temp. 18-20 °C. Relative humidity may reach upto 93 % (max) & 27 % (min). The average wind speed may be 4-8 km/hr.

General Advisory:

1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauveria bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
2. Provisions may be made to harvest rain water.
3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

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	Grain filling	Leaf folder and case worm	<ul style="list-style-type: none"> Apply Lambda cythrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		<ul style="list-style-type: none"> - Sowing of kharif maize may be done after seed treatment with Carbendazim @ 2g/kg seeds. 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.
Soybean/ Groundnut/ Blackgram	Seed treatment to sowing		<ul style="list-style-type: none"> 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 Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre water or with Thiram 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.
Rice Bean	Seed treatment to sowing		<ul style="list-style-type: none"> Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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
Colocasia	Planting		<ul style="list-style-type: none"> - Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		<ul style="list-style-type: none"> - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		<ul style="list-style-type: none"> - Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin Beetle	<ul style="list-style-type: none"> - Use Methyl Euginol as trap @ 4-10 traps/ sangam. - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Litchi	Nursery		<ul style="list-style-type: none"> Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



Lime/ Lemon	Transplanting		<ul style="list-style-type: none">- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source.- Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
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 primises 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	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 28th May, 2019*District: Churachandpur***Past weather for the of Imphal West (24th to 27th May, 19):**

13.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy and partly cloudy on 27th afternoon. Maximum temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C. Mean relative humidity of 87.5 % max & 68.3 % min was recorded in the past four days & average wind speed was 1.9-7.8 km/ hr.

Weather forecast for Churachandpur (29th May to 2nd June, 2019):

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain partly cloudy to cloudy with max. temp. 29-32 °C & mini. temp. 18-20 °C. Relative humidity may reach upto 99 % (max) & 33 % (min). The average wind speed may be 3-5 km/hr.

General Advisory:

1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray *Beauveria bassiana* @ 3ml/litre water during evening hours and after 3 days spray *Metarhizium anisopliae* @ 5ml/ litre water.
2. Provisions may be made to harvest rain water.
3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

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	Grain filling	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.
			- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		- Sowing of kharif maize may be done after seed treatment with Carbendazim @ 2g/kg seeds. 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.
Soybean/ Groundnut/ Blackgram	Seed treatment to sowing		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 Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre water or with Thiram 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.
Rice Bean	Seed treatment to sowing		Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed before sowing.
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
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
		Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Litchi	Nursery		Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with



			20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
Lime/ Lemon	Transplanting		<ul style="list-style-type: none"> - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. - Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.

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	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 28th May, 2019*District: Imphal East***Past weather for the of Imphal West (24th to 27th May, 19):**

13.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy and partly cloudy on 27th afternoon. Maximum temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C. Mean relative humidity of 87.5 % max & 68.3 % min was recorded in the past four days & average wind speed was 1.9-7.8 km/ hr.

Weather forecast for Imphal East (29th May to 2nd June, 2019):

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain partly cloudy to cloudy with max. temp. 30-32 °C & mini. temp. 19-20 °C. Relative humidity may reach upto 89 % (max) & 30 % (min). The average wind speed may be 5-8 km/hr.

General Advisory:

1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauveria bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
2. Provisions may be made to harvest rain water.
3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

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	Grain filling	Leaf folder and case worm	<ul style="list-style-type: none"> Apply Lambda cythrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		<ul style="list-style-type: none"> - Sowing of kharif maize may be done after seed treatment with Carbendazim @ 2g/kg seeds. 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.
Soybean/ Groundnut/ Blackgram	Seed treatment to sowing		<ul style="list-style-type: none"> 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 Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre water or with Thiram 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.
Rice Bean	Seed treatment to sowing		<ul style="list-style-type: none"> Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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
Colocasia	Planting		<ul style="list-style-type: none"> - Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		<ul style="list-style-type: none"> - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		<ul style="list-style-type: none"> - Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Euginol as trap @ 4-10 traps/ sangam.
		Beetle	<ul style="list-style-type: none"> - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Litchi	Nursery		<ul style="list-style-type: none"> Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



Lime/ Lemon	Transplanting		<ul style="list-style-type: none">- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source.- Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
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 primises 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	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 28th May, 2019*District: Imphal West***Past weather for the of Imphal West (24th to 27th May, 19):**

13.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy and partly cloudy on 27th afternoon. Maximum temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C. Mean relative humidity of 87.5 % max & 68.3 % min was recorded in the past four days & average wind speed was 1.9-7.8 km/ hr.

Weather forecast for Imphal West (29th May to 2nd June, 2019):

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain partly cloudy to cloudy with max. temp. 29-32 °C & mini. temp. 18-20 °C. Relative humidity may reach upto 98 % (max) & 35 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauveria bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
2. Provisions may be made to harvest rain water.
3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

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	Grain filling	Leaf folder and case worm	<ul style="list-style-type: none"> Apply Lambda cythrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		<ul style="list-style-type: none"> - Sowing of kharif maize may be done after seed treatment with Carbendazim @ 2g/kg seeds. 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.
Soybean/ Groundnut/ Blackgram	Seed treatment to sowing		<ul style="list-style-type: none"> 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 Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre water or with Thiram 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.
Rice Bean	Seed treatment to sowing		<ul style="list-style-type: none"> Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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
Colocasia	Planting		<ul style="list-style-type: none"> - Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		<ul style="list-style-type: none"> - Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		<ul style="list-style-type: none"> - Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Euginol as trap @ 4-10 traps/ sangam.
		Beetle	<ul style="list-style-type: none"> - To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Litchi	Nursery		<ul style="list-style-type: none"> Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



Lime/ Lemon	Transplanting		<ul style="list-style-type: none">- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source.- Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
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 primises 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	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 28th May, 2019*District: Senapati***Past weather for the of Imphal West (24th to 27th May, 19):**

13.5 mm rainfall was observed during the past four days. The skies remained mainly cloudy and partly cloudy on 27th afternoon. Maximum temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C. Mean relative humidity of 87.5 % max & 68.3 % min was recorded in the past four days & average wind speed was 1.9-7.8 km/ hr.

Weather forecast for Senapati (29th May to 2nd June, 2019):

Likely to have moderate to heavy rains at isolated places from Friday. The sky will remain partly cloudy to cloudy with max. temp. 27-30 °C & mini. temp. 17-19 °C. Relative humidity may reach upto 95 % (max) & 41 % (min). The average wind speed may be 4-5 km/hr.

General Advisory:

1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauveria bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
2. Provisions may be made to harvest rain water.
3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

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	Grain filling	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.
			- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		- Sowing of kharif maize may be done after seed treatment with Carbendazim @ 2g/kg seeds. 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.
Soybean/ Groundnut/ Blackgram	Seed treatment to sowing		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 Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre water or with Thiram 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.
Rice Bean	Seed treatment to sowing		Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed before sowing.
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
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
		Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Litchi	Nursery		Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



Lime/ Lemon	Transplanting		<ul style="list-style-type: none">- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source.- Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
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 primises 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	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

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