

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 4th June, 2019*District: Thoubal***Past weather for the of Imphal West (31st May to 3rd June, 19):**

24.8 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy on 3rd June. Maximum temperature ranged from 27.6 – 32.0 °C and minimum of 18.0-20.3 °C. Mean relative humidity of 87.75 % max & 54.0 % min was recorded in the past four days & average wind speed was 2.2 - 5.4 km/ hr.

Weather forecast for Thoubal (5th to 9th June, 2019):

Likely to have light to moderate rains at isolated places upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 99 % (max) & 77 % (min). The average wind speed may be 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. Do not apply if it rains heavy.
2. Provisions may be made to harvest rain water.
3. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned below during rainy days.

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. - Uprooting of 25-30days old rice seedlings may be done for transplanting.
Pre-kharif Rice	Grain filling to maturity		<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains. - Avoid leaf eating caterpillars.
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			
* For cultivation of vegetables in low lying area, ponds/channels/ drains may be made to drain out accumulated water in the field and the soil from it may be used to raise the beds level. Raised and sunken bed system may also be adopted.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative		<ul style="list-style-type: none"> At present, earthing up may be done after rains at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
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.
French Bean/ Bhindi	Flowering and fruiting to harvesting		<ul style="list-style-type: none"> - Weeding may be done after rains to avoid insect pest infestation. - Retain healthy disease free fruits for seeds.



Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.
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.
		- Fascioliosis	- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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	Water management	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.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	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: 4th June, 2019

District: Ukhrul

Past weather for the of Imphal West (31st May to 3rd June, 19):

24.8 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy on 3rd June. Maximum temperature ranged from 27.6 – 32.0 °C and minimum of 18.0-20.3 °C. Mean relative humidity of 87.75 % max & 54.0 % min was recorded in the past four days & average wind speed was 2.2 - 5.4 km/ hr.

Weather forecast for Ukhrul (5th to 9th June, 2019):

Likely to have moderate to heavy rains at isolated places upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 28-30 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 94 % (max) & 59 % (min). The average wind speed may be 4 km/hr.

General Advisory:

1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains as it will wash away. When there is no rain, 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 in the fields for nursery raising or transplanting.
3. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned below during rainy days.

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. - Uprooting of 25-30days old rice seedlings may be transplanted.
Pre-kharif Rice	Grain filling to maturity		<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains. - Avoid leaf eating caterpillars.
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			
* For cultivation of vegetables in low lying area, ponds/channels/ drains may be made to drain out accumulated water in the field and the soil from it may be used to raise the beds level. Raised and sunken bed system may also be adopted.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative		<p>At present, earthing up may be done after rains at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month.</p> <ul style="list-style-type: none"> - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
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.
French Bean/ Bhindi	Flowering and fruiting to harvesting		<ul style="list-style-type: none"> - Weeding may be done after rains to avoid insect pest infestation. - Retain healthy disease free fruits for seeds.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Eugenol 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.



Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.
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.
		- Fascioliosis	- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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	Water management	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.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	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: 4th June, 2019*District: Bishnupur***Past weather for the of Imphal West (31st May to 3rd June, 19):**

24.8 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy on 3rd June. Maximum temperature ranged from 27.6 – 32.0 °C and minimum of 18.0-20.3 °C. Mean relative humidity of 87.75 % max & 54.0 % min was recorded in the past four days & average wind speed was 2.2 - 5.4 km/ hr.

Weather forecast for Bishnupur (5th to 9th June, 2019):

Likely to have light to moderate rains at isolated places upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 100 % (max) & 70 % (min). The average wind speed may be 2-4 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. Do not apply if it rains heavy.
2. Provisions may be made to harvest rain water.
3. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned below during rainy days.

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. - Uprooting of 25-30days old rice seedlings may be done for transplanting.
Pre-kharif Rice	Grain filling to maturity		- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Early vegetative		- Weeding may be done after rains.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains. - Avoid leaf eating caterpillars.
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			
* For cultivation of vegetables in low lying area, ponds/channels/ drains may be made to drain out accumulated water in the field and the soil from it may be used to raise the beds level. Raised and sunken bed system may also be adopted.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative		<ul style="list-style-type: none"> At present, earthing up may be done after rains at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
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.
French Bean/ Bhindi	Flowering and fruiting to harvesting		<ul style="list-style-type: none"> - Weeding may be done after rains to avoid insect pest infestation. - Retain healthy disease free fruits for seeds.



Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.
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.
		- Fascioliosis	- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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	Water management	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.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	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: 4th June, 2019

District: Chandel

Past weather for the of Imphal West (31st May to 3rd June, 19):

24.8 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy on 3rd June. Maximum temperature ranged from 27.6 – 32.0 °C and minimum of 18.0-20.3 °C. Mean relative humidity of 87.75 % max & 54.0 % min was recorded in the past four days & average wind speed was 2.2 - 5.4 km/ hr.

Weather forecast for Chandel (5th to 9th June, 2019):

Likely to have moderate to heavy rains at isolated places upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 94 % (max) & 67 % (min). The average wind speed may be 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. Do not apply if it rains heavy.
2. Provisions may be made to harvest rain water.
3. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned below during rainy days.

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. - Uprooting of 25-30days old rice seedlings may be done for transplanting.
Pre-kharif Rice	Grain filling to maturity		- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Early vegetative		- Weeding may be done after rains.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains. - Avoid leaf eating caterpillars.
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			
* For cultivation of vegetables in low lying area, ponds/channels/ drains may be made to drain out accumulated water in the field and the soil from it may be used to raise the beds level. Raised and sunken bed system may also be adopted.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative		<p>At present, earthing up may be done after rains at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month.</p> <ul style="list-style-type: none"> - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
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.
French Bean/ Bhindi	Flowering and fruiting to harvesting		<ul style="list-style-type: none"> - Weeding may be done after rains to avoid insect pest infestation. - Retain healthy disease free fruits for seeds.



Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.
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.
		- Fascioliosis	- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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	Water management	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.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	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: 4th June, 2019*District: Churachandpur***Past weather for the of Imphal West (31st May to 3rd June, 19):**

24.8 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy on 3rd June. Maximum temperature ranged from 27.6 – 32.0 °C and minimum of 18.0-20.3 °C. Mean relative humidity of 87.75 % max & 54.0 % min was recorded in the past four days & average wind speed was 2.2 - 5.4 km/ hr.

Weather forecast for Churachandpur (5th to 9th June, 2019):

Likely to have moderate to heavy rains at isolated places upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 99 % (max) & 71 % (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. Do not apply if it rains heavy.
2. Provisions may be made to harvest rain water.
3. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned below during rainy days.

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. - Uprooting of 25-30days old rice seedlings may be done for transplanting.
Pre-kharif Rice	Grain filling to maturity		<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains. - Avoid leaf eating caterpillars.
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			
* For cultivation of vegetables in low lying area, ponds/channels/ drains may be made to drain out accumulated water in the field and the soil from it may be used to raise the beds level. Raised and sunken bed system may also be adopted.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative		<ul style="list-style-type: none"> At present, earthing up may be done after rains at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
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.
French Bean/ Bhindi	Flowering and fruiting to harvesting		<ul style="list-style-type: none"> - Weeding may be done after rains to avoid insect pest infestation. - Retain healthy disease free fruits for seeds.



Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.
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.
		- Fascioliosis	- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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	Water management	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.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	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: 4th June, 2019*District: Imphal East***Past weather for the of Imphal West (31st May to 3rd June, 19):**

24.8 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy on 3rd June. Maximum temperature ranged from 27.6 – 32.0 °C and minimum of 18.0-20.3 °C. Mean relative humidity of 87.75 % max & 54.0 % min was recorded in the past four days & average wind speed was 2.2 - 5.4 km/ hr.

Weather forecast for Imphal East (5th to 9th June, 2019):

Likely to have light to moderate rains at isolated places upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 97 % (max) & 51 % (min). The average wind speed may be 5-6 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. Do not apply if it rains heavy.
2. Provisions may be made to harvest rain water.
3. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned below during rainy days.

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. - Uprooting of 25-30days old rice seedlings may be done for transplanting.
Pre-kharif Rice	Grain filling to maturity		<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains. - Avoid leaf eating caterpillars.
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			
* For cultivation of vegetables in low lying area, ponds/channels/ drains may be made to drain out accumulated water in the field and the soil from it may be used to raise the beds level. Raised and sunken bed system may also be adopted.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative		<ul style="list-style-type: none"> At present, earthing up may be done after rains at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
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.
French Bean/ Bhindi	Flowering and fruiting to harvesting		<ul style="list-style-type: none"> - Weeding may be done after rains to avoid insect pest infestation. - Retain healthy disease free fruits for seeds.



Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.
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.
		- Fascioliosis	- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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	Water management	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.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	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: 4th June, 2019

District: Imphal West

Past weather for the of Imphal West (31st May to 3rd June, 19):

24.8 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy on 3rd June. Maximum temperature ranged from 27.6 – 32.0 °C and minimum of 18.0-20.3 °C. Mean relative humidity of 87.75 % max & 54.0 % min was recorded in the past four days & average wind speed was 2.2 - 5.4 km/ hr.

Weather forecast for Imphal West (5th to 9th June, 2019):

Likely to have light to moderate rains at isolated places upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 31-32 °C & mini. temp. 20-21 °C. Relative humidity may reach upto 97 % (max) & 51 % (min). The average wind speed may be 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. Do not apply if it rains heavy.
2. Provisions may be made to harvest rain water.
3. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned below during rainy days.

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. - Uprooting of 25-30days old rice seedlings may be done for transplanting.
Pre-kharif Rice	Grain filling to maturity		- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Early vegetative		- Weeding may be done after rains.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains. - Avoid leaf eating caterpillars.
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			
* For cultivation of vegetables in low lying area, ponds/channels/ drains may be made to drain out accumulated water in the field and the soil from it may be used to raise the beds level. Raised and sunken bed system may also be adopted.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative		<p>At present, earthing up may be done after rains at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month.</p> <ul style="list-style-type: none"> - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
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.
French Bean/ Bhindi	Flowering and fruiting to harvesting		<ul style="list-style-type: none"> - Weeding may be done after rains to avoid insect pest infestation. - Retain healthy disease free fruits for seeds.



Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.
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.
		- Fascioliosis	- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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	Water management	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.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	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: 4th June, 2019

District: Senapati

Past weather for the of Imphal West (31st May to 3rd June, 19):

24.8 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy on 3rd June. Maximum temperature ranged from 27.6 – 32.0 °C and minimum of 18.0-20.3 °C. Mean relative humidity of 87.75 % max & 54.0 % min was recorded in the past four days & average wind speed was 2.2 - 5.4 km/ hr.

Weather forecast for Senapati (5th to 9th June, 2019):

Likely to have moderate to heavy rains at isolated places upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 28-30 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 98 % (max) & 69 % (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 as it will wash away. When there is no rain, 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 in the fields for nursery raising or transplanting.
3. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned below during rainy days.

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. - Uprooting of 25-30days old rice seedlings may be transplanted.
Pre-kharif Rice	Grain filling to maturity		<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains. - Avoid leaf eating caterpillars.
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			
* For cultivation of vegetables in low lying area, ponds/channels/ drains may be made to drain out accumulated water in the field and the soil from it may be used to raise the beds level. Raised and sunken bed system may also be adopted.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative		<ul style="list-style-type: none"> At present, earthing up may be done after rains at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
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.
French Bean/ Bhindi	Flowering and fruiting to harvesting		<ul style="list-style-type: none"> - Weeding may be done after rains to avoid insect pest infestation. - Retain healthy disease free fruits for seeds.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin	<ul style="list-style-type: none"> - Use Methyl Eugenol 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.



Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.
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.
		- Fascioliosis	- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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	Water management	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.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	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: 4th June, 2019*District: Tamenglong***Past weather for the of Imphal West (31st May to 3rd June, 19):**

24.8 mm rainfall was observed during the past four days. The skies remained mainly cloudy to overcast but partly cloudy on 3rd June. Maximum temperature ranged from 27.6 – 32.0 °C and minimum of 18.0-20.3 °C. Mean relative humidity of 87.75 % max & 54.0 % min was recorded in the past four days & average wind speed was 2.2 - 5.4 km/ hr.

Weather forecast for Tamenglong (5th to 9th June, 2019):

Likely to have moderate to heavy rains at isolated places upto Sunday. The sky will remain mainly cloudy to overcast with max. temp. 28-30 °C & mini. temp. 18-19 °C. Relative humidity may reach upto 98 % (max) & 66 % (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. Do not apply if it rains heavy.
2. Provisions may be made to harvest rain water.
3. Avoid weeding or earthing up or insect-pest sprays and fertilizer applications mentioned below during rainy days.

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. - Uprooting of 25-30days old rice seedlings may be done for transplanting.
Pre-kharif Rice	Grain filling to maturity		<ul style="list-style-type: none"> - Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains.
Soybean/ Groundnut/ Blackgram/ Rice Bean	Early vegetative		<ul style="list-style-type: none"> - Weeding may be done after rains. - Avoid leaf eating caterpillars.
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			
* For cultivation of vegetables in low lying area, ponds/channels/ drains may be made to drain out accumulated water in the field and the soil from it may be used to raise the beds level. Raised and sunken bed system may also be adopted.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative		<ul style="list-style-type: none"> At present, earthing up may be done after rains at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month. - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil @ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.
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.
French Bean/ Bhindi	Flowering and fruiting to harvesting		<ul style="list-style-type: none"> - Weeding may be done after rains to avoid insect pest infestation. - Retain healthy disease free fruits for seeds.



Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		- Bleaching powder may be spread near farm premises. - To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening.
		Management	- To prevent protozoan, bacterial, fungal diseases, litter should be kept dry and turned regularly. Apply lime powder @ 2.5 kg per 100 sq. ft. area in litter material.
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.
		- Fascioliosis	- Give Tolzan-F 90ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
			- Provide wholesome water. Protection from high temp may be ensured. - Electrolytes in the form of powder/ liquid may be given. Increase salt level in feed.
Goat	All age groups except three months or below	- Fascioliosis	- Give Tolzan-F 15ml orally/ 300kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		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	Water management	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.
		Fish	Stock 20-30 lakhs spawns in one hectare water.
	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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