

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30<sup>th</sup> April, 2019*District: Churachandpur***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> April, 19):**

7.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy but mainly clear on 26<sup>th</sup> & afternoon of 28<sup>th</sup> April. Maximum temperature ranged from 27.9 – 33.4 °C and minimum of 15.8 – 22.0 °C. Mean relative humidity of 83.8 % max & 48.0 % min was recorded in the past four days & average wind speed was 4.5 – 8.3 km/ hr.

**Weather forecast for Churachandpur (1<sup>st</sup> to 5<sup>th</sup> May, 2019):**

Likely to have fairly widespread rains during next five days. The sky will remain mainly clear to mainly cloudy with max. temp. 31-37 °C & mini. temp. 20-24 °C. Relative humidity may reach upto 98 % (max) & 73 % (min). The average wind speed may be 3-6 km/hr.

**Field Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Nursery		- After sowing, increase water level just to submerge the soil surface and expose the green aerial sprouts.
<b>Pre-kharif Rice</b>	Panicle initiation		- Maintain the water level of 5-8 cm. Weeding and top dressing with Urea @ 33kg/ ha may be done at panicle initiation stage.
<b>Kharif maize</b>	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
<b>Soybean/ Groundnut/ Blackgram</b>	Land preparation and Seed collection		- Land preparation for sowing soybean/ groundnut may be started. - Procure quality seed suitable to the site from reliable source. - Apply 10-13 t/ha of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
<b>Seeds storage</b>	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Avoid fungal growth and pest rodent in store.

**Horticulture Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Cucurbits</b>	Flowering and fruiting to harvested		- Avoid fruits to touch soil. Proper staking may be done for better growth.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>French Bean</b>	Vegetative		- Weeding may be done.
<b>Colocasia/ alocasia</b>	Land preparation and planting		- Prepare land for planting colocasia/ alocasia/ ginger/ turmeric.
<b>Ginger &amp; turmeric</b>	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	All susceptible age groups	Ranikhet disease	Vaccinate birds against Ranikhet disease.
		Coccidiosis	Give 1g Amprolium powder in 1 litre of drinking water for 5-7 days.
<b>Pig</b>	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
<b>Cattle</b>	Above 3 months of age	B.Q./ H.S./ F.M.D.	Vaccinate against B.Q./ H.S./ F.M.D.
		Deworming	Give Albendazole @ 30 ml per 100kg body weight.
		Milk fever	Give mineral mixture @ 60g/day in divided dose to the pregnant ones.
		Management	Napier/ Guinea grass may be planted as fodder crop.
<b>Sheep/Goat</b>	All animals	Deworming	Give Albendazole @ 25ml/100kg body weight.
		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.



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Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"><li>▪ Pond should be free from insects, predators, aquatic weeds etc.</li><li>▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.</li><li>▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.</li></ul>
	Nurseries	Pond and fish	Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30<sup>th</sup> April, 2019*District: Imphal East*

<b>Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> April, 19):</b> 7.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy but mainly clear on 26 <sup>th</sup> & afternoon of 28 <sup>th</sup> April. Maximum temperature ranged from 27.9 – 33.4 °C and minimum of 15.8 – 22.0 °C. Mean relative humidity of 83.8 % max & 48.0 % min was recorded in the past four days & average wind speed was 4.5 – 8.3 km/ hr.	<b>Weather forecast for Imphal East (1<sup>st</sup> to 5<sup>th</sup> May, 2019):</b> Likely to have fairly widespread rains during next five days. The sky will remain mainly clear to mainly cloudy with max. temp. 29-31 °C & mini. temp. 18-22 °C. Relative humidity may reach upto 91 % (max) & 53 % (min). The average wind speed may be 4-9 km/hr.
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<b>Field Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery		- After sowing, increase water level just to submerge the soil surface and expose the green aerial sprouts.
Pre-kharif Rice	Panicle initiation		- Maintain the water level of 5-8 cm. Weeding and top dressing with Urea @ 33kg/ ha may be done at panicle initiation stage.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		- Land preparation for sowing soybean/ groundnut may be started. - Procure quality seed suitable to the site from reliable source. - Apply 10-13 t/ha of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Seeds 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. - Avoid fungal growth and pest rodent in store.
<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Flowering and fruiting to harvested		- Avoid fruits to touch soil. Proper staking may be done for better growth.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
French Bean	Vegetative		- Weeding may be done.
Colocasia/ alocasia	Land preparation and planting		- Prepare land for planting colocasia/ alocasia/ ginger/ turmeric.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).
<b>Animal Sciences</b>			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Ranikhet disease	Vaccinate birds against Ranikhet disease.
		Coccidiosis	Give 1g Amprolium powder in 1 litre of drinking water for 5-7 days.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
Cattle	Above 3 months of age	B.Q./ H.S./ F.M.D.	Vaccinate against B.Q./ H.S./ F.M.D.
		Deworming	Give Albendazole @ 30 ml per 100kg body weight.
		Milk fever	Give mineral mixture @ 60g/day in divided dose to the pregnant ones.
		Management	Napier/ Guinea grass may be planted as fodder crop.
Sheep/Goat	All animals	Deworming	Give Albendazole @ 25ml/100kg body weight.
		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.



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Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"><li>▪ Pond should be free from insects, predators, aquatic weeds etc.</li><li>▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.</li><li>▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.</li></ul>
	Nurseries	Pond and fish	Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30<sup>th</sup> April, 2019*District: Imphal West***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> April, 19):**

7.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy but mainly clear on 26<sup>th</sup> & afternoon of 28<sup>th</sup> April. Maximum temperature ranged from 27.9 – 33.4 °C and minimum of 15.8 – 22.0 °C. Mean relative humidity of 83.8 % max & 48.0 % min was recorded in the past four days & average wind speed was 4.5 – 8.3 km/ hr.

**Weather forecast for Imphal West (1<sup>st</sup> to 5<sup>th</sup> May, 2019):**

Likely to have fairly widespread rains during next five days. The sky will remain mainly clear to mainly cloudy with max. temp. 29-35 °C & mini. temp. 20-23 °C. Relative humidity may reach upto 98 % (max) & 49 % (min). The average wind speed may be 4-5 km/hr.

**Field Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Nursery		- After sowing, increase water level just to submerge the soil surface and expose the green aerial sprouts.
<b>Pre-kharif Rice</b>	Panicle initiation		- Maintain the water level of 5-8 cm. Weeding and top dressing with Urea @ 33kg/ ha may be done at panicle initiation stage.
<b>Kharif maize</b>	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
<b>Soybean/ Groundnut/ Blackgram</b>	Land preparation and Seed collection		- Land preparation for sowing soybean/ groundnut may be started. - Procure quality seed suitable to the site from reliable source. - Apply 10-13 t/ha of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
<b>Seeds storage</b>	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Avoid fungal growth and pest rodent in store.

**Horticulture Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Cucurbits</b>	Flowering and fruiting to harvested		- Avoid fruits to touch soil. Proper staking may be done for better growth.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>French Bean</b>	Vegetative		- Weeding may be done.
<b>Colocasia/ alocasia</b>	Land preparation and planting		- Prepare land for planting colocasia/ alocasia/ ginger/ turmeric.
<b>Ginger &amp; turmeric</b>	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	All susceptible age groups	Ranikhet disease	Vaccinate birds against Ranikhet disease.
		Coccidiosis	Give 1g Amprolium powder in 1 litre of drinking water for 5-7 days.
<b>Pig</b>	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
<b>Cattle</b>	Above 3 months of age	B.Q./ H.S./ F.M.D.	Vaccinate against B.Q./ H.S./ F.M.D.
		Deworming	Give Albendazole @ 30 ml per 100kg body weight.
		Milk fever	Give mineral mixture @ 60g/day in divided dose to the pregnant ones.
		Management	Napier/ Guinea grass may be planted as fodder crop.
<b>Sheep/Goat</b>	All animals	Deworming	Give Albendazole @ 25ml/100kg body weight.
		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.



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Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"><li>▪ Pond should be free from insects, predators, aquatic weeds etc.</li><li>▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.</li><li>▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.</li></ul>
	Nurseries	Pond and fish	Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)  
Nodal Officer, GKMS



**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30<sup>th</sup> April, 2019*District: Senapati***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> April, 19):**

7.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy but mainly clear on 26<sup>th</sup> & afternoon of 28<sup>th</sup> April. Maximum temperature ranged from 27.9 – 33.4 °C and minimum of 15.8 – 22.0 °C. Mean relative humidity of 83.8 % max & 48.0 % min was recorded in the past four days & average wind speed was 4.5 – 8.3 km/ hr.

**Weather forecast for Senapati (1<sup>st</sup> to 5<sup>th</sup> May, 2019):**

Likely to have fairly widespread rains during next five days. The sky will remain mainly clear to mainly cloudy with max. temp. 33-36 °C & mini. temp. 23 °C. Relative humidity may reach upto 96 % (max) & 72 % (min). The average wind speed may be 3-7 km/hr.

**Field Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery		- After sowing, increase water level just to submerge the soil surface and expose the green aerial sprouts.
Pre-kharif Rice	Panicle initiation		- Maintain the water level of 5-8 cm. Weeding and top dressing with Urea @ 33kg/ ha may be done at panicle initiation stage.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		- Land preparation for sowing soybean/ groundnut may be started. - Procure quality seed suitable to the site from reliable source. - Apply 10–13 t/ha of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Seeds 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. - Avoid fungal growth and pest rodent in store.

**Horticulture Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Flowering and fruiting to harvested		- Avoid fruits to touch soil. Proper staking may be done for better growth.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
French Bean	Vegetative		- Weeding may be done.
Colocasia/ alocasia	Land preparation and planting		- Prepare land for planting colocasia/ alocasia/ ginger/ turmeric.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Ranikhet disease	Vaccinate birds against Ranikhet disease.
		Coccidiosis	Give 1g Amprolium powder in 1 litre of drinking water for 5-7 days.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
Cattle	Above 3 months of age	B.Q./ H.S./ F.M.D.	Vaccinate against B.Q./ H.S./ F.M.D.
		Deworming	Give Albendazole @ 30 ml per 100kg body weight.
		Milk fever	Give mineral mixture @ 60g/day in divided dose to the pregnant ones.
		Management	Napier/ Guinea grass may be planted as fodder crop.
Sheep/Goat	All animals	Deworming	Give Albendazole @ 25ml/100kg body weight.
		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.



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Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"><li>▪ Pond should be free from insects, predators, aquatic weeds etc.</li><li>▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.</li><li>▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.</li></ul>
	Nurseries	Pond and fish	Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)  
Nodal Officer, GKMS



**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30<sup>th</sup> April, 2019*District: Tamenglong***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> April, 19):**

7.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy but mainly clear on 26<sup>th</sup> & afternoon of 28<sup>th</sup> April. Maximum temperature ranged from 27.9 – 33.4 °C and minimum of 15.8 – 22.0 °C. Mean relative humidity of 83.8 % max & 48.0 % min was recorded in the past four days & average wind speed was 4.5 – 8.3 km/ hr.

**Weather forecast for Tamenglong (1<sup>st</sup> to 5<sup>th</sup> May, 2019):**

Likely to have fairly widespread rains during next five days. The sky will remain mainly clear to mainly cloudy with max. temp. 33-35 °C & mini. temp. 22-23 °C. Relative humidity may reach upto 99 % (max) & 72 % (min). The average wind speed may be 3-6 km/hr.

**Field Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery		- After sowing, increase water level just to submerge the soil surface and expose the green aerial sprouts.
Pre-kharif Rice	Panicle initiation		- Maintain the water level of 5-8 cm. Weeding and top dressing with Urea @ 33kg/ ha may be done at panicle initiation stage.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		- Land preparation for sowing soybean/ groundnut may be started. - Procure quality seed suitable to the site from reliable source. - Apply 10-13 t/ha of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Seeds 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. - Avoid fungal growth and pest rodent in store.

**Horticulture Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Flowering and fruiting to harvested		- Avoid fruits to touch soil. Proper staking may be done for better growth.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
French Bean	Vegetative		- Weeding may be done.
Colocasia/ alocasia	Land preparation and planting		- Prepare land for planting colocasia/ alocasia/ ginger/ turmeric.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Ranikhet disease	Vaccinate birds against Ranikhet disease.
		Coccidiosis	Give 1g Amprolium powder in 1 litre of drinking water for 5-7 days.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
Cattle	Above 3 months of age	B.Q./ H.S./ F.M.D.	Vaccinate against B.Q./ H.S./ F.M.D.
		Deworming	Give Albendazole @ 30 ml per 100kg body weight.
		Milk fever	Give mineral mixture @ 60g/day in divided dose to the pregnant ones.
		Management	Napier/ Guinea grass may be planted as fodder crop.
Sheep/Goat	All animals	Deworming	Give Albendazole @ 25ml/100kg body weight.
		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.



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Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"><li>▪ Pond should be free from insects, predators, aquatic weeds etc.</li><li>▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.</li><li>▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.</li></ul>
	Nurseries	Pond and fish	Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30<sup>th</sup> April, 2019*District: Thoubal***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> April, 19):**

7.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy but mainly clear on 26<sup>th</sup> & afternoon of 28<sup>th</sup> April. Maximum temperature ranged from 27.9 – 33.4 °C and minimum of 15.8 – 22.0 °C. Mean relative humidity of 83.8 % max & 48.0 % min was recorded in the past four days & average wind speed was 4.5 – 8.3 km/ hr.

**Weather forecast for Thoubal (1<sup>st</sup> to 5<sup>th</sup> May, 2019):**

Likely to have fairly widespread rains during next five days. The sky will remain mainly clear to mainly cloudy with max. temp. 30-34 °C & mini. temp. 21-23 °C. Relative humidity may reach upto 96 % (max) & 73 % (min). The average wind speed may be 3-11 km/hr.

**Field Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery		- After sowing, increase water level just to submerge the soil surface and expose the green aerial sprouts.
Pre-kharif Rice	Panicle initiation		- Maintain the water level of 5-8 cm. Weeding and top dressing with Urea @ 33kg/ ha may be done at panicle initiation stage.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		- Land preparation for sowing soybean/ groundnut may be started. - Procure quality seed suitable to the site from reliable source. - Apply 10-13 t/ha of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Seeds 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. - Avoid fungal growth and pest rodent in store.

**Horticulture Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Flowering and fruiting to harvested		- Avoid fruits to touch soil. Proper staking may be done for better growth.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
French Bean	Vegetative		- Weeding may be done.
Colocasia/ alocasia	Land preparation and planting		- Prepare land for planting colocasia/ alocasia/ ginger/ turmeric.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Ranikhet disease	Vaccinate birds against Ranikhet disease.
		Coccidiosis	Give 1g Amprolium powder in 1 litre of drinking water for 5-7 days.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
Cattle	Above 3 months of age	B.Q./ H.S./ F.M.D.	Vaccinate against B.Q./ H.S./ F.M.D.
		Deworming	Give Albendazole @ 30 ml per 100kg body weight.
		Milk fever	Give mineral mixture @ 60g/day in divided dose to the pregnant ones.
		Management	Napier/ Guinea grass may be planted as fodder crop.
Sheep/Goat	All animals	Deworming	Give Albendazole @ 25ml/100kg body weight.
		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.



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Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"><li>▪ Pond should be free from insects, predators, aquatic weeds etc.</li><li>▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.</li><li>▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.</li></ul>
	Nurseries	Pond and fish	Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30<sup>th</sup> April, 2019

District: Ukhrul

**Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> April, 19):**

7.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy but mainly clear on 26<sup>th</sup> & afternoon of 28<sup>th</sup> April. Maximum temperature ranged from 27.9 – 33.4 °C and minimum of 15.8 – 22.0 °C. Mean relative humidity of 83.8 % max & 48.0 % min was recorded in the past four days & average wind speed was 4.5 – 8.3 km/ hr.

**Weather forecast for Ukhrul (1<sup>st</sup> to 5<sup>th</sup> May, 2019):**

Likely to have fairly widespread rains during next five days. The sky will remain mainly clear to mainly cloudy with max. temp. 34-36 °C & mini. temp. 21-24 °C. Relative humidity may reach upto 95 % (max) & 69 % (min). The average wind speed may be 3-8 km/hr.

**Field Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery		- After sowing, increase water level just to submerge the soil surface and expose the green aerial sprouts.
Pre-kharif Rice	Panicle initiation		- Maintain the water level of 5-8 cm. Weeding and top dressing with Urea @ 33kg/ ha may be done at panicle initiation stage.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		- Land preparation for sowing soybean/ groundnut may be started. - Procure quality seed suitable to the site from reliable source. - Apply 10-13 t/ha of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Seeds 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. - Avoid fungal growth and pest rodent in store.

**Horticulture Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Flowering and fruiting to harvested		- Avoid fruits to touch soil. Proper staking may be done for better growth.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
French Bean	Vegetative		- Weeding may be done.
Colocasia/ alocasia	Land preparation and planting		- Prepare land for planting colocasia/ alocasia/ ginger/ turmeric.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Ranikhet disease	Vaccinate birds against Ranikhet disease.
		Coccidiosis	Give 1g Amprolium powder in 1 litre of drinking water for 5-7 days.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
Cattle	Above 3 months of age	B.Q./ H.S./ F.M.D.	Vaccinate against B.Q./ H.S./ F.M.D.
		Deworming	Give Albendazole @ 30 ml per 100kg body weight.
		Milk fever	Give mineral mixture @ 60g/day in divided dose to the pregnant ones.
		Management	Napier/ Guinea grass may be planted as fodder crop.
Sheep/Goat	All animals	Deworming	Give Albendazole @ 25ml/100kg body weight.
		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.



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Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"><li>▪ Pond should be free from insects, predators, aquatic weeds etc.</li><li>▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.</li><li>▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.</li></ul>
	Nurseries	Pond and fish	Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)  
Nodal Officer, GKMS



**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30<sup>th</sup> April, 2019*District: Bishnupur***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> April, 19):**

7.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy but mainly clear on 26<sup>th</sup> & afternoon of 28<sup>th</sup> April. Maximum temperature ranged from 27.9 – 33.4 °C and minimum of 15.8 – 22.0 °C. Mean relative humidity of 83.8 % max & 48.0 % min was recorded in the past four days & average wind speed was 4.5 – 8.3 km/ hr.

**Weather forecast for Bishnupur (1<sup>st</sup> to 5<sup>th</sup> May, 2019):**

Likely to have fairly widespread rains during next five days. The sky will remain mainly clear to mainly cloudy with max. temp. 31-33 °C & mini. temp. 19-22 °C. Relative humidity may reach upto 98 % (max) & 73 % (min). The average wind speed may be 2-7 km/hr.

**Field Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery		- After sowing, increase water level just to submerge the soil surface and expose the green aerial sprouts.
Pre-kharif Rice	Panicle initiation		- Maintain the water level of 5-8 cm. Weeding and top dressing with Urea @ 33kg/ ha may be done at panicle initiation stage.
Kharif maize	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Soybean/ Groundnut/ Blackgram	Land preparation and Seed collection		- Land preparation for sowing soybean/ groundnut may be started. - Procure quality seed suitable to the site from reliable source. - Apply 10-13 t/ha of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
Seeds 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. - Avoid fungal growth and pest rodent in store.

**Horticulture Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Flowering and fruiting to harvested		- Avoid fruits to touch soil. Proper staking may be done for better growth.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
French Bean	Vegetative		- Weeding may be done.
Colocasia/ alocasia	Land preparation and planting		- Prepare land for planting colocasia/ alocasia/ ginger/ turmeric.
Ginger & turmeric	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Ranikhet disease	Vaccinate birds against Ranikhet disease.
		Coccidiosis	Give 1g Amprolium powder in 1 litre of drinking water for 5-7 days.
Pig	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
Cattle	Above 3 months of age	B.Q./ H.S./ F.M.D.	Vaccinate against B.Q./ H.S./ F.M.D.
		Deworming	Give Albendazole @ 30 ml per 100kg body weight.
		Milk fever	Give mineral mixture @ 60g/day in divided dose to the pregnant ones.
		Management	Napier/ Guinea grass may be planted as fodder crop.
Sheep/Goat	All animals	Deworming	Give Albendazole @ 25ml/100kg body weight.
		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.





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Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"><li>▪ Pond should be free from insects, predators, aquatic weeds etc.</li><li>▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.</li><li>▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.</li></ul>
	Nurseries	Pond and fish	Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30<sup>th</sup> April, 2019*District: Chandel***Past weather for the of Imphal West (26<sup>th</sup> to 29<sup>th</sup> April, 19):**

7.2 mm rainfall was observed during the past four days. The skies remained mainly cloudy but mainly clear on 26<sup>th</sup> & afternoon of 28<sup>th</sup> April. Maximum temperature ranged from 27.9 – 33.4 °C and minimum of 15.8 – 22.0 °C. Mean relative humidity of 83.8 % max & 48.0 % min was recorded in the past four days & average wind speed was 4.5 – 8.3 km/ hr.

**Weather forecast for Chandel (1<sup>st</sup> to 5<sup>th</sup> May, 2019):**

Likely to have fairly widespread rains during next five days. The sky will remain mainly clear to mainly cloudy with max. temp. 30-37 °C & mini. temp. 22-23 °C. Relative humidity may reach upto 94 % (max) & 66 % (min). The average wind speed may be 3-9 km/hr.

**Field Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Kharif Rice</b>	Nursery		- After sowing, increase water level just to submerge the soil surface and expose the green aerial sprouts.
<b>Pre-kharif Rice</b>	Panicle initiation		- Maintain the water level of 5-8 cm. Weeding and top dressing with Urea @ 33kg/ ha may be done at panicle initiation stage.
<b>Kharif maize</b>	Land preparation		- Land preparation for maize cultivation can be started. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
<b>Soybean/ Groundnut/ Blackgram</b>	Land preparation and Seed collection		- Land preparation for sowing soybean/ groundnut may be started. - Procure quality seed suitable to the site from reliable source. - Apply 10-13 t/ha of FYM or compost by mixing thoroughly in the soil 1 - 2 weeks before sowing.
<b>Seeds storage</b>	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Avoid fungal growth and pest rodent in store.

**Horticulture Crops**

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Cucurbits</b>	Flowering and fruiting to harvested		- Avoid fruits to touch soil. Proper staking may be done for better growth.
		Mite	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
<b>French Bean</b>	Vegetative		- Weeding may be done.
<b>Colocasia/ alocasia</b>	Land preparation and planting		- Prepare land for planting colocasia/ alocasia/ ginger/ turmeric.
<b>Ginger &amp; turmeric</b>	Planting		Spacings for planting of ginger (25cm plant to plant and 25-30cm row to row) and turmeric (25cm plant to plant and 40-45cm row to row).

**Animal Sciences**

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	All susceptible age groups	Ranikhet disease	Vaccinate birds against Ranikhet disease.
		Coccidiosis	Give 1g Amprolium powder in 1 litre of drinking water for 5-7 days.
<b>Pig</b>	Above 3 months of age	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
<b>Cattle</b>	Above 3 months of age	B.Q./ H.S./ F.M.D.	Vaccinate against B.Q./ H.S./ F.M.D.
		Deworming	Give Albendazole @ 30 ml per 100kg body weight.
		Milk fever	Give mineral mixture @ 60g/day in divided dose to the pregnant ones.
		Management	Napier/ Guinea grass may be planted as fodder crop.
<b>Sheep/Goat</b>	All animals	Deworming	Give Albendazole @ 25ml/100kg body weight.
		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.



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Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture (Common carp & grass carp)	Breeding	pond	<ul style="list-style-type: none"><li>▪ Pond should be free from insects, predators, aquatic weeds etc.</li><li>▪ Water should be clean, clear having pH, 7.0-7.5; dissolved oxygen 6-8ppm, carbon dioxide –nil.</li><li>▪ Hormone like ovaprim, ovatide or Wova-FH may be injected @ 0.5ml/kg fish for breeding in both the brooders of common carp and grass carp.</li></ul>
	Nurseries	Pond and fish	Water depth should be maintained at 1.0m. After liming nursery ponds should be fertilized prior 15 days of spawn stocking. 8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting. Feeding should be done 2-3 splits a day @3-5% body weight/day.
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			

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