



**MANIPUR AGROMET ADVISORY BULLETIN**

Date of issue: 1<sup>st</sup> February, 2019

*District: Imphal East*

<p><b>Significant past weather for the preceding bi-weekly of Imphal West (29<sup>th</sup> to 31<sup>st</sup> Jan, 19)</b> 3.4 mm rainfall was observed during the past three days. The skies remained cloudy on 29<sup>th</sup> then clear thereafter. Maximum temperature ranged from 20.4 – 24.2 °C and minimum of 4.2 – 11.2 °C. Mean relative humidity of 93.7 % max and 39.7 % min was recorded in the past three days &amp; average wind speed was 1.5 – 3.9 km/hr.</p>	<p><b>Weather forecast for Imphal East (2<sup>nd</sup> to 6<sup>th</sup> February, 2019)</b> Likely to have no rains during next five days and partly cloudy sky with max. temp. 23-25 °C &amp; mini. temp. 3-5 °C. Relative humidity may reach upto 80 % (max) and 24 % (min). The average wind speed may be 5-6 km/hr.</p>
<p><b>General Advisories:</b> * <b>Sprinklers may be used for economic utilization of water in crop fields.</b></p>	

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Field pea/ Lentil	Flowering to fruiting	Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Powdery mildew and white rust	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb Extract (ST) @ 1% or <i>Trichoderma harzianum</i> .
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Tuber initiation	Aphid	- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 EC @ 1ml/ litre of water.
Pre-kharif rice	Seed collection to nursery raising		- Prepare 700 m <sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. Procure quality and healthy seeds for nursery raising pre-kharif rice. Treat seeds with Carbendazim @ 2g/ kg seeds 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
Mango	Flowering		- To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10 traps per hectare. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Tree-Bean	Pre-bearing and bearing trees	bark borer/ termites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.
Onion	Vegetative		- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam depending upon the fertility.
Cucurbits	Nursery		- Select polybags (size: 8cm X 10cm) for nursery rising under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. Sow One seed per polybag and keep it covered with polythene sheet till the seeds sprout.
French Bean/ Bhindi	Seed collection and land preparation		- Disease free quality seeds may be collected from reliable source and land preparation for planting it may also be started.

Animal Sciences			
* Arrange for external heat source during night and early morning hours.			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Vaccination	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Igm Amprolium Powder in 1 litre of drinking water for 5-7 days.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
Sheep/ Goat	All age groups	Contagious Caprine Pluero-pneumonia (CCPP)	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
	All new born animals	Deworming	Give Albendazole @25 ml per 100kg body weight.
Pig	All age groups except the young ones	Deworming	Give Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the solution.
Cattle	All age groups	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	All new born animals	Deworming	Give Albendazole @30 ml per 100kg body weight.

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 1<sup>st</sup> February, 2019

District: Imphal West

<b>Significant past weather for the preceding bi-weekly of Imphal West (29<sup>th</sup> to 31<sup>st</sup> Jan, 19)</b> 3.4 mm rainfall was observed during the past three days. The skies remained cloudy on 29 <sup>th</sup> then clear thereafter. Maximum temperature ranged from 20.4 – 24.2 °C and minimum of 4.2 – 11.2 °C. Mean relative humidity of 93.7 % max and 39.7 % min was recorded in the past three days & average wind speed was 1.5 – 3.9 km/hr.	<b>Weather forecast for Imphal West (2<sup>nd</sup> to 6<sup>th</sup> February, 2019)</b> Likely to have no rains during next five days and partly cloudy sky with max. temp. 23-25 °C & mini. temp. 3-5 °C. Relative humidity may reach upto 80 % (max) and 26 % (min). The average wind speed may be 4-5 km/hr.
<b>General Advisories:</b> * <b>Sprinklers may be used for economic utilization of water in crop fields.</b>	

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Field pea/ Lentil	Flowering to fruiting	Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water to the infected patches only.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Powdery mildew and white rust	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb Extract (ST) @ 1% or <i>Trichoderma harzianum</i> .
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Tuber initiation	Aphid	- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 EC @ 1ml/ litre of water.
Pre-kharif rice	Seed collection to nursery raising		- Prepare 700 m <sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. Procure quality and healthy seeds for nursery raising pre-kharif rice. Treat seeds with Carbendazim @ 2g/ kg seeds 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
Mango	Flowering		- To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10 traps per hectare. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Tree-Bean	Pre-bearing and bearing trees	bark borer/ termites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.
Onion	Vegetative		- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam depending upon the fertility.
Cucurbits	Nursery		- Select polybags (size: 8cm X 10cm) for nursery rising under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. Sow One seed per polybag and keep it covered with polythene sheet till the seeds sprout.
French Bean/ Bhindi	Seed collection and land preparation		- Disease free quality seeds may be collected from reliable source and land preparation for planting it may also be started.

Animal Sciences			
* Arrange for external heat source during night and early morning hours.			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Vaccination	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Igm Amprolium Powder in 1 litre of drinking water for 5-7 days.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
Sheep/ Goat	All age groups	Contagious Caprine Pluero-pneumonia (CCPP)	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
	All new born animals	Deworming	Give Albendazole @25 ml per 100kg body weight.
Pig	All age groups except the young ones	Deworming	Give Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the solution.
Cattle	All age groups	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	All new born animals	Deworming	Give Albendazole @30 ml per 100kg body weight.

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 1<sup>st</sup> February, 2019District: *Senapati*

<b>Significant past weather for the preceding bi-weekly of Imphal West (29<sup>th</sup> to 31<sup>st</sup> Jan, 19)</b> 3.4 mm rainfall was observed during the past three days. The skies remained cloudy on 29 <sup>th</sup> then clear thereafter. Maximum temperature ranged from 20.4 – 24.2 °C and minimum of 4.2 – 11.2 °C. Mean relative humidity of 93.7 % max and 39.7 % min was recorded in the past three days & average wind speed was 1.5 – 3.9 km/ hr.	<b>Weather forecast for Senapati (2<sup>nd</sup> to 6<sup>th</sup> February, 2019)</b> Likely to have no rains during next five days and partly cloudy sky with max. temp. 20-23 °C & mini. temp. 3-5 °C. Relative humidity may reach upto 88 % (max) and 25 % (min). The average wind speed may be 4-5 km/hr.
<b>General Advisories:</b> * <b>Sprinklers may be used for economic utilization of water in crop fields.</b>	

<b>Field Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Field pea/ Lentil	Flowering to fruiting	Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water to the infected patches only.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Powdery mildew and white rust	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb Extract (ST) @ 1% or <i>Trichoderma harzianum</i> .
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Pre-kharif rice	Seed collection to nursery raising		- Prepare 700 m <sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. Procure quality and healthy seeds for nursery raising pre-kharif rice. Treat seeds with Carbendazim @ 2g/ kg seeds 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.

<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering		- To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10 traps per hectare. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Tree-Bean	Pre-bearing and bearing trees	bark borer/ termites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.
Onion	Vegetative		- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam depending upon the fertility.
Cucurbits	Nursery		- Select polybags (size: 8cm X 10cm) for nursery rising under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. Sow One seed per polybag and keep it covered with polythene sheet till the seeds sprout.
French Bean/ Bhindi	Seed collection and land preparation		- Disease free quality seeds may be collected from reliable source and land preparation for planting it may also be started.

<b>Animal Sciences</b>			
* Arrange for external heat source during night and early morning hours.			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Vaccination	Vaccinate against Ranikhet disease.
		Coccidiosis	Give 1gm Amprolium Powder in 1 litre of drinking water for 5-7 days.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
Sheep/ Goat	All age groups	Contagious Caprine Pluero-pneumonia (CCPP)	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
	All new born animals	Deworming	Give Albendazole @25 ml per 100kg body weight.
Pig	All age groups except the young ones	Deworming	Give Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the solution.
Cattle	All age groups	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	All new born animals	Deworming	Give Albendazole @30 ml per 100kg body weight.

(I. Meghachandra Singh)  
Nodal Officer, GKMS



**MANIPUR AGROMET ADVISORY BULLETIN**

Date of issue: 1<sup>st</sup> February, 2019

**District: Tamenglong**

<p><b>Significant past weather for the preceding bi-weekly of Imphal West (29<sup>th</sup> to 31<sup>st</sup> Jan, 19)</b> 3.4 mm rainfall was observed during the past three days. The skies remained cloudy on 29<sup>th</sup> then clear thereafter. Maximum temperature ranged from 20.4 – 24.2 °C and minimum of 4.2 – 11.2 °C. Mean relative humidity of 93.7 % max and 39.7 % min was recorded in the past three days &amp; average wind speed was 1.5 – 3.9 km/hr.</p>	<p><b>Weather forecast for Tamenglong (2<sup>nd</sup> to 6<sup>th</sup> February, 2019)</b> Likely to have no rains during next five days and partly cloudy sky with max. temp. 23-25 °C &amp; mini. temp. 4-6 °C. Relative humidity may reach upto 88 % (max) and 25 % (min). The average wind speed may be 4-5 km/hr.</p>
<p><b>General Advisories:</b> * <b>Sprinklers may be used for economic utilization of water in crop fields.</b></p>	

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Field pea/ Lentil	Flowering to fruiting	Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water to the infected patches only.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Powdery mildew and white rust	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb Extract (ST) @ 1% or <i>Trichoderma harzianum</i> .
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Tuber initiation	Aphid	- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 EC @ 1ml/ litre of water.
Pre-kharif rice	Seed collection to nursery raising		- Prepare 700 m <sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. Procure quality and healthy seeds for nursery raising pre-kharif rice. Treat seeds with Carbendazim @ 2g/ kg seeds 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
Mango	Flowering		- To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10 traps per hectare. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Tree-Bean	Pre-bearing and bearing trees	bark borer/ termites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.
Onion	Vegetative		- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam depending upon the fertility.
Cucurbits	Nursery		- Select polybags (size: 8cm X 10cm) for nursery rising under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. Sow One seed per polybag and keep it covered with polythene sheet till the seeds sprout.
French Bean/ Bhindi	Seed collection and land preparation		- Disease free quality seeds may be collected from reliable source and land preparation for planting it may also be started.

Animal Sciences			
* Arrange for external heat source during night and early morning hours.			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Vaccination	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Igm Amprolium Powder in 1 litre of drinking water for 5-7 days.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
Sheep/ Goat	All age groups	Contagious Caprine Pluero-pneumonia (CCPP)	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
	All new born animals	Deworming	Give Albendazole @25 ml per 100kg body weight.
Pig	All age groups except the young ones	Deworming	Give Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the solution.
Cattle	All age groups	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	All new born animals	Deworming	Give Albendazole @30 ml per 100kg body weight.

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 1<sup>st</sup> February, 2019

District: Thoubal

<b>Significant past weather for the preceding bi-weekly of Imphal West (29<sup>th</sup> to 31<sup>st</sup> Jan, 19)</b> 3.4 mm rainfall was observed during the past three days. The skies remained cloudy on 29 <sup>th</sup> then clear thereafter. Maximum temperature ranged from 20.4 – 24.2 °C and minimum of 4.2 – 11.2 °C. Mean relative humidity of 93.7 % max and 39.7 % min was recorded in the past three days & average wind speed was 1.5 – 3.9 km/hr.	<b>Weather forecast for Thoubal (2<sup>nd</sup> to 6<sup>th</sup> February, 2019)</b> Likely to have no rains during next five days and partly cloudy sky with max. temp. 23-25 °C & mini. temp. 4-5 °C. Relative humidity may reach upto 89 % (max) and 32 % (min). The average wind speed may be 4-5 km/hr.
<b>General Advisories:</b> * Sprinklers may be used for economic utilization of water in crop fields.	

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Field pea/ Lentil	Flowering to fruiting	Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water to the infected patches only.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Powdery mildew and white rust	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb Extract (ST) @ 1% or <i>Trichoderma harzianum</i> .
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Tuber initiation	Aphid	- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 EC @ 1ml/ litre of water.
Pre-kharif rice	Seed collection to nursery raising		- Prepare 700 m <sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. Procure quality and healthy seeds for nursery raising pre-kharif rice. Treat seeds with Carbendazim @ 2g/ kg seeds 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
Mango	Flowering		- To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10 traps per hectare. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Tree-Bean	Pre-bearing and bearing trees	bark borer/ termites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.
Onion	Vegetative		- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam depending upon the fertility.
Cucurbits	Nursery		- Select polybags (size: 8cm X 10cm) for nursery rising under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. Sow One seed per polybag and keep it covered with polythene sheet till the seeds sprout.
French Bean/ Bhindi	Seed collection and land preparation		- Disease free quality seeds may be collected from reliable source and land preparation for planting it may also be started.

Animal Sciences			
* Arrange for external heat source during night and early morning hours.			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Vaccination	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Igm Amprolium Powder in 1 litre of drinking water for 5-7 days.
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Sheep/ Goat	All age groups	Contagious Caprine Pluero-pneumonia (CCPP)	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
	All new born animals	Deworming	Give Albendazole @25 ml per 100kg body weight.
Pig	All age groups except the young ones	Deworming	Give Albendazole Plus Avermectin Table 6 mg/adult.
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		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the solution.
Cattle	All age groups	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	All new born animals	Deworming	Give Albendazole @30 ml per 100kg body weight.

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 1<sup>st</sup> February, 2019

District: Ukhrul

<b>Significant past weather for the preceding bi-weekly of Imphal West (29<sup>th</sup> to 31<sup>st</sup> Jan, 19)</b> 3.4 mm rainfall was observed during the past three days. The skies remained cloudy on 29 <sup>th</sup> then clear thereafter. Maximum temperature ranged from 20.4 – 24.2 °C and minimum of 4.2 – 11.2 °C. Mean relative humidity of 93.7 % max and 39.7 % min was recorded in the past three days & average wind speed was 1.5 – 3.9 km/ hr.	<b>Weather forecast for Ukhrul (2<sup>nd</sup> to 6<sup>th</sup> February, 2019)</b> Likely to have no rains during next five days and partly cloudy sky with max. temp. 22-24 °C & mini. temp. 3-4 °C. Relative humidity may reach upto 89 % (max) and 26 % (min). The average wind speed may be 4-5 km/hr.
<b>General Advisories:</b> * <b>Sprinklers may be used for economic utilization of water in crop fields.</b>	

<b>Field Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Powdery mildew and white rust	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb Extract (ST) @ 1% or <i>Trichoderma harzianum</i> .
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Pre-kharif rice	Seed collection to nursery raising		- Prepare 700 m <sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. Procure quality and healthy seeds for nursery raising pre-kharif rice. Treat seeds with Carbendazim @ 2g/ kg seeds 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.

<b>Horticulture Crops</b>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering		- To protect from Mango fruit fly, Methyl Eugenol trap 0.1% may be used @ 10 traps per hectare. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Tree-Bean	Pre-bearing and bearing trees	bark borer/ termites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.
Onion	Vegetative		- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam depending upon the fertility.
Cucurbits	Nursery		- Select polybags (size: 8cm X 10cm) for nursery rising under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. Sow One seed per polybag and keep it covered with polythene sheet till the seeds sprout.
French Bean/ Bhindi	Seed collection and land preparation		- Disease free quality seeds may be collected from reliable source and land preparation for planting it may also be started.

<b>Animal Sciences</b>			
* Arrange for external heat source during night and early morning hours.			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Vaccination	Vaccinate against Ranikhet disease.
		Coccidiosis	Give 1gm Amprolium Powder in 1 litre of drinking water for 5-7 days.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
Sheep/ Goat	All age groups	Contagious Caprine Pluero-pneumonia (CCPP)	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
	All new born animals	Deworming	Give Albendazole @25 ml per 100kg body weight.
Pig	All age groups except the young ones	Deworming	Give Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the solution.
Cattle	All age groups	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	All new born animals	Deworming	Give Albendazole @30 ml per 100kg body weight.

(I. Meghachandra Singh)  
Nodal Officer, GKMS



**MANIPUR AGROMET ADVISORY BULLETIN**

Date of issue: 1<sup>st</sup> February, 2019

*District: Bishnupur*

<p><b>Significant past weather for the preceding bi-weekly of Imphal West (29<sup>th</sup> to 31<sup>st</sup> Jan, 19)</b> 3.4 mm rainfall was observed during the past three days. The skies remained cloudy on 29<sup>th</sup> then clear thereafter. Maximum temperature ranged from 20.4 – 24.2 °C and minimum of 4.2 – 11.2 °C. Mean relative humidity of 93.7 % max and 39.7 % min was recorded in the past three days &amp; average wind speed was 1.5 – 3.9 km/hr.</p>	<p><b>Weather forecast for Bishnupur (2<sup>nd</sup> to 6<sup>th</sup> February, 2019)</b> Likely to have no rains during next five days and partly cloudy sky with max. temp. 24-26 °C &amp; mini. temp. 5-6 °C. Relative humidity may reach upto 88 % (max) and 27 % (min). The average wind speed may be 2-3 km/hr.</p>
<p><b>General Advisories:</b> * <b>Sprinklers may be used for economic utilization of water in crop fields.</b></p>	

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Field pea/ Lentil	Flowering to fruiting	Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Powdery mildew and white rust	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb Extract (ST) @ 1% or <i>Trichoderma harzianum</i> .
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Tuber initiation	Aphid	- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 EC @ 1ml/ litre of water.
Pre-kharif rice	Seed collection to nursery raising		- Prepare 700 m <sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. Procure quality and healthy seeds for nursery raising pre-kharif rice. Treat seeds with Carbendazim @ 2g/ kg seeds 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
Mango	Flowering		- To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10 traps per hectare. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Tree-Bean	Pre-bearing and bearing trees	bark borer/ termites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.
Onion	Vegetative		- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam depending upon the fertility.
Cucurbits	Nursery		- Select polybags (size: 8cm X 10cm) for nursery rising under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. Sow One seed per polybag and keep it covered with polythene sheet till the seeds sprout.
French Bean/ Bhindi	Seed collection and land preparation		- Disease free quality seeds may be collected from reliable source and land preparation for planting it may also be started.

Animal Sciences			
* Arrange for external heat source during night and early morning hours.			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Vaccination	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Igm Amprolium Powder in 1 litre of drinking water for 5-7 days.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
Sheep/ Goat	All age groups	Contagious Caprine Pluero-pneumonia (CCPP)	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
	All new born animals	Deworming	Give Albendazole @25 ml per 100kg body weight.
Pig	All age groups except the young ones	Deworming	Give Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the solution.
Cattle	All age groups	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	All new born animals	Deworming	Give Albendazole @30 ml per 100kg body weight.

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 1<sup>st</sup> February, 2019

District: Chandel

<b>Significant past weather for the preceding bi-weekly of Imphal West (29<sup>th</sup> to 31<sup>st</sup> Jan, 19)</b> 3.4 mm rainfall was observed during the past three days. The skies remained cloudy on 29 <sup>th</sup> then clear thereafter. Maximum temperature ranged from 20.4 – 24.2 °C and minimum of 4.2 – 11.2 °C. Mean relative humidity of 93.7 % max and 39.7 % min was recorded in the past three days & average wind speed was 1.5 – 3.9 km/hr.	<b>Weather forecast for Chandel (2<sup>nd</sup> to 6<sup>th</sup> February, 2019)</b> Likely to have no rains during next five days and partly cloudy sky with max. temp. 21-24 °C & mini. temp. 4-6 °C. Relative humidity may reach upto 89 % (max) and 31 % (min). The average wind speed may be 4 km/hr.
<b>General Advisories:</b> * <b>Sprinklers may be used for economic utilization of water in crop fields.</b>	

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Field pea/ Lentil	Flowering to fruiting	Hairy caterpillar	- Spray Chloropyrifos @ 2ml/litre of water to the infected patches only.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Powdery mildew and white rust	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb Extract (ST) @ 1% or <i>Trichoderma harzianum</i> .
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Tuber initiation	Aphid	- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 EC @ 1ml/ litre of water.
Pre-kharif rice	Seed collection to nursery raising		- Prepare 700 m <sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. Procure quality and healthy seeds for nursery raising pre-kharif rice. Treat seeds with Carbendazim @ 2g/ kg seeds 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
Mango	Flowering		- To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10 traps per hectare. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Tree-Bean	Pre-bearing and bearing trees	bark borer/ termites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.
Onion	Vegetative		- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam depending upon the fertility.
Cucurbits	Nursery		- Select polybags (size: 8cm X 10cm) for nursery rising under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. Sow One seed per polybag and keep it covered with polythene sheet till the seeds sprout.
French Bean/ Bhindi	Seed collection and land preparation		- Disease free quality seeds may be collected from reliable source and land preparation for planting it may also be started.

Animal Sciences			
* Arrange for external heat source during night and early morning hours.			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Vaccination	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Igm Amprolium Powder in 1 litre of drinking water for 5-7 days.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
Sheep/ Goat	All age groups	Contagious Caprine Pluero-pneumonia (CCPP)	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
	All new born animals	Deworming	Give Albendazole @25 ml per 100kg body weight.
Pig	All age groups except the young ones	Deworming	Give Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the solution.
Cattle	All age groups	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	All new born animals	Deworming	Give Albendazole @30 ml per 100kg body weight.

(I. Meghachandra Singh)  
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 1<sup>st</sup> February, 2019

District: Churachandpur

<b>Significant past weather for the preceding bi-weekly of Imphal West (29<sup>th</sup> to 31<sup>st</sup> Jan, 19)</b> 3.4 mm rainfall was observed during the past three days. The skies remained cloudy on 29 <sup>th</sup> then clear thereafter. Maximum temperature ranged from 20.4 – 24.2 °C and minimum of 4.2 – 11.2 °C. Mean relative humidity of 93.7 % max and 39.7 % min was recorded in the past three days & average wind speed was 1.5 – 3.9 km/hr.	<b>Weather forecast for Churachandpur (2<sup>nd</sup> to 6<sup>th</sup> February, 2019)</b> Likely to have no rains during next five days and partly cloudy sky with max. temp. 24-26 °C & mini. temp. 5-7 °C. Relative humidity may reach upto 86 % (max) and 25 % (min). The average wind speed may be 4 km/hr.
<b>General Advisories:</b> * <b>Sprinklers may be used for economic utilization of water in crop fields.</b>	

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Field pea/ Lentil	Flowering to fruiting	Hairy caterpillar	- Spray Chloropyriphos @ 2ml/litre of water to the infected patches only.
		Pod borer	- Spray Imidachloprid @ 0.25 ml/ litre of water to the infected patches.
		Powdery mildew and white rust	- Spray Redomil MZ 72 WP @ 2g/ litre after 50-60 days of sowing or spray Garlic Bulb Extract (ST) @ 1% or <i>Trichoderma harzianum</i> .
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Tuber initiation	Aphid	- If aphid is observed in small patches, wash off it with plain water but if it is severe, spray Cypermethrin 20 EC @ 1ml/ litre of water.
Pre-kharif rice	Seed collection to nursery raising		- Prepare 700 m <sup>2</sup> area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m <sup>2</sup> at final leveling. - Nursery bed should be well puddled and leveled to avoid uneven stagnation of water. Procure quality and healthy seeds for nursery raising pre-kharif rice. Treat seeds with Carbendazim @ 2g/ kg seeds 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
Mango	Flowering		- To protect from Mango fruit fly, Methyl Euginol trap 0.1% may be used @ 10 traps per hectare. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
Tree-Bean	Pre-bearing and bearing trees	bark borer/ termites	- 20g Carbofuran 3G/ plant may be in-corporated in soil as prophylactic measure against bark borer/ termites.
Onion	Vegetative		- 30 to 45 days old transplanted onion should be top dressed with 20-25 kg urea/ sangam depending upon the fertility.
Cucurbits	Nursery		- Select polybags (size: 8cm X 10cm) for nursery rising under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. Sow One seed per polybag and keep it covered with polythene sheet till the seeds sprout.
French Bean/ Bhindi	Seed collection and land preparation		- Disease free quality seeds may be collected from reliable source and land preparation for planting it may also be started.

Animal Sciences			
* Arrange for external heat source during night and early morning hours.			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Vaccination	Vaccinate against Ranikhet disease.
		Coccidiosis	Give Igm Amprolium Powder in 1 litre of drinking water for 5-7 days.
		Gumboro	- Gumboro disease vaccine (@ 1drop/ bird in eye) when the bird is 14 days old.
Sheep/ Goat	All age groups	Contagious Caprine Pluero-pneumonia (CCPP)	- Vaccinate against Contagious Caprine Pluero-pneumonia intra- dermally.
	All new born animals	Deworming	Give Albendazole @25 ml per 100kg body weight.
Pig	All age groups except the young ones	Deworming	Give Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/litre water and bath with the solution.
Cattle	All age groups	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	All new born animals	Deworming	Give Albendazole @30 ml per 100kg body weight.

(I. Meghachandra Singh)  
Nodal Officer, GKMS