

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th January, 2019*District: Chandel***Significant past weather for the preceding bi-weekly of Imphal West (8th to 10th January, 19)**

No rainfall was observed during the past three days. The skies remained clear to partly cloudy. Maximum temperature ranged from 21.9 – 24.3 °C and minimum of 3.6 – 7.6 °C. Mean relative humidity of 91.67 % max and 39 % min was recorded in the past three days & average wind speed was 2.0 – 5.0 km/ hr.

Weather forecast for Chandel (12th to 16th January, 2019)

Likely to have no rains and mainly clear to partly cloudy sky during next five days with max. temp. 21-22°C & mini. temp. 5-6°C. Relative humidity may reach upto 79% (max) and 42% (min). The average wind speed may be 4 km/hr.

General Advisories:

* As the temperature is low especially during morning hours and night time, measures may be taken up to protect animals and birds from cold.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering		- Keep soil moist for good vegetative growth. - Life saving irrigation may be given.
		Aphid	- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.
		caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.
		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> .
Potato	Vegetative to tuber initiation		- Irrigation may be given, if the soil is dry. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing.
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew and rust	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and Nimbecidin (0.3%) against rust.
Rabi maize	Sowing to Early Vegetative		- It may be sown as intercrop with pea/ lentil/ rapeseed. - Treat seeds with Carbendazim @ 2g/kg 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
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.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew and yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Vegetable (cole crops)	Vegetative	caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.

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	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Care and Management	Protect animals/ birds from sudden drop in temperature. Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Litters should be of 4.5 inches thick and stir it at regular interval.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O ₂) 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 excepts the young ones	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Care and Management	Sheds must be kept dry. Use bedding materials.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th January, 2019*District: Churachandpur*

Significant past weather for the preceding bi-weekly of Imphal West (8th to 10th January, 19)
No rainfall was observed during the past three days. The skies remained clear to partly cloudy. Maximum temperature ranged from 21.9 – 24.3 °C and minimum of 3.6 – 7.6 °C. Mean relative humidity of 91.67 % max and 39 % min was recorded in the past three days & average wind speed was 2.0 – 5.0 km/ hr.

Weather forecast for Churachandpur (12th to 16th January, 2019)

Likely to have no rains and mainly clear to partly cloudy sky during next five days with max. temp. 21-22°C & mini. temp. 5-6°C. Relative humidity may reach upto 79% (max) and 36% (min). The average wind speed may be 4 km/hr.

General Advisories:

* As the temperature is low especially during morning hours and night time, measures may be taken up to protect animals and birds from cold.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering		- Keep soil moist for good vegetative growth. - Life saving irrigation may be given.
		Aphid	- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.
		caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.
		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> .
Potato	Vegetative to tuber initiation		- Irrigation may be given, if the soil is dry. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing.
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew and rust	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and Nimbecidin (0.3%) against rust.
Rabi maize	Sowing to Early Vegetative		- It may be sown as intercrop with pea/ lentil/ rapeseed. - Treat seeds with Carbendazim @ 2g/kg 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
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.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew and yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Vegetable (cole crops)	Vegetative	caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.

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	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Care and Management	Protect animals/ birds from sudden drop in temperature. Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Litters should be of 4.5 inches thick and stir it at regular interval.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O ₂) 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 excepts the young ones	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Care and Management	Sheds must be kept dry. Use bedding materials.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th January, 2019**District: Imphal East****Significant past weather for the preceding bi-weekly of Imphal West (8th to 10th January, 19)**

No rainfall was observed during the past three days. The skies remained clear to partly cloudy. Maximum temperature ranged from 21.9 – 24.3 °C and minimum of 3.6 – 7.6 °C. Mean relative humidity of 91.67 % max and 39 % min was recorded in the past three days & average wind speed was 2.0 – 5.0 km/ hr.

Weather forecast for Imphal East (12th to 16th January, 2019)

Likely to have no rains and mainly clear to partly cloudy sky during next five days with max. temp. 20-21°C & mini. temp. 4-5°C. Relative humidity may reach upto 80% (max) and 35% (min). The average wind speed may be 5-6 km/hr.

General Advisories:

* As the temperature is low especially during morning hours and night time, measures may be taken up to protect animals and birds from cold.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering		- Keep soil moist for good vegetative growth. - Life saving irrigation may be given.
		Aphid	- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.
		caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.
		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> .
Potato	Vegetative to tuber initiation		- Irrigation may be given, if the soil is dry. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing.
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew and rust	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and Nimbecidin (0.3%) against rust.
Rabi maize	Sowing to Early Vegetative		- It may be sown as intercrop with pea/ lentil/ rapeseed. - Treat seeds with Carbendazim @ 2g/kg 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
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.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew and yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Vegetable (cole crops)	Vegetative	caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.

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	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Care and Management	Protect animals/ birds from sudden drop in temperature. Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Litters should be of 4.5 inches thick and stir it at regular interval.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O ₂) 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 excepts the young ones	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Care and Management	Sheds must be kept dry. Use bedding materials.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th January, 2019*District: Imphal West***Significant past weather for the preceding bi-weekly of Imphal West (8th to 10th January, 19)**

No rainfall was observed during the past three days. The skies remained clear to partly cloudy. Maximum temperature ranged from 21.9 – 24.3 °C and minimum of 3.6 – 7.6 °C. Mean relative humidity of 91.67 % max and 39 % min was recorded in the past three days & average wind speed was 2.0 – 5.0 km/ hr.

Weather forecast for Imphal West (12th to 16th January, 2019)

Likely to have no rains and mainly clear to partly cloudy sky during next five days with max. temp. 20-21°C & mini. temp. 4-5°C. Relative humidity may reach upto 85% (max) and 34% (min). The average wind speed may be 4 km/hr.

General Advisories:

* As the temperature is low especially during morning hours and night time, measures may be taken up to protect animals and birds from cold.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering		- Keep soil moist for good vegetative growth. - Life saving irrigation may be given.
		Aphid	- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.
		caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.
		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> .
Potato	Vegetative to tuber initiation		- Irrigation may be given, if the soil is dry. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing.
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew and rust	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and Nimbecidin (0.3%) against rust.
Rabi maize	Sowing to Early Vegetative		- It may be sown as intercrop with pea/ lentil/ rapeseed. - Treat seeds with Carbendazim @ 2g/kg 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
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.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew and yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Vegetable (cole crops)	Vegetative	caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.

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	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Care and Management	Protect animals/ birds from sudden drop in temperature. Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Litters should be of 4.5 inches thick and stir it at regular interval.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O ₂) 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 excepts the young ones	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Care and Management	Sheds must be kept dry. Use bedding materials.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th January, 2019*District: Senapati***Significant past weather for the preceding bi-weekly of Imphal West (8th to 10th January, 19)**

No rainfall was observed during the past three days. The skies remained clear to partly cloudy. Maximum temperature ranged from 21.9 – 24.3 °C and minimum of 3.6 – 7.6 °C. Mean relative humidity of 91.67 % max and 39 % min was recorded in the past three days & average wind speed was 2.0 – 5.0 km/ hr.

Weather forecast for Senapati (12th to 16th January, 2019)

Likely to have no rains and mainly clear to partly cloudy sky during next five days with max. temp. 20-21°C & mini. temp. 3°C. Relative humidity may reach upto 73% (max) and 35% (min). The average wind speed may be 4-5 km/hr.

General Advisories:

* As the temperature is low especially during morning hours and night time, measures may be taken up to protect animals and birds from cold.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering		- Keep soil moist for good vegetative growth. - Life saving irrigation may be given.
		Aphid	- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.
		caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.
		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> .
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew and rust	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and Nimbicidin (0.3%) against rust.
Rabi maize	Sowing to Early Vegetative		- It may be sown as intercrop with pea/ lentil/ rapeseed. - Treat seeds with Carbendazim @ 2g/kg 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
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.
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew and yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Vegetable (cole crops)	Vegetative	caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.

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	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Care and Management	Protect animals/ birds from sudden drop in temperature. Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Litters should be of 4.5 inches thick and stir it at regular interval.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O ₂) 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 excepts the young ones	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Care and Management	Sheds must be kept dry. Use bedding materials.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th January, 2019**District: Tamenglong****Significant past weather for the preceding bi-weekly of Imphal West (8th to 10th January, 19)**

No rainfall was observed during the past three days. The skies remained clear to partly cloudy. Maximum temperature ranged from 21.9 – 24.3 °C and minimum of 3.6 – 7.6 °C. Mean relative humidity of 91.67 % max and 39 % min was recorded in the past three days & average wind speed was 2.0 – 5.0 km/ hr.

Weather forecast for Tamenglong (12th to 16th January, 2019)

Likely to have no rains and mainly clear to partly cloudy sky during next five days with max. temp. 20-21°C & mini. temp. 4-5°C. Relative humidity may reach upto 75% (max) and 36% (min). The average wind speed may be 4 km/hr.

General Advisories:

* As the temperature is low especially during morning hours and night time, measures may be taken up to protect animals and birds from cold.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering		- Keep soil moist for good vegetative growth. - Life saving irrigation may be given.
		Aphid	- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.
		caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.
		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> .
Potato	Vegetative to tuber initiation		- Irrigation may be given, if the soil is dry. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing.
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew and rust	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and Nimbecidin (0.3%) against rust.
Rabi maize	Sowing to Early Vegetative		- It may be sown as intercrop with pea/ lentil/ rapeseed. - Treat seeds with Carbendazim @ 2g/kg 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
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.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew and yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Vegetable (cole crops)	Vegetative	caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.

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	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Care and Management	Protect animals/ birds from sudden drop in temperature. Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Litters should be of 4.5 inches thick and stir it at regular interval.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O ₂) 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 excepts the young ones	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Care and Management	Sheds must be kept dry. Use bedding materials.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th January, 2019**District: Thoubal****Significant past weather for the preceding bi-weekly of Imphal West (8th to 10th January, 19)**

No rainfall was observed during the past three days. The skies remained clear to partly cloudy. Maximum temperature ranged from 21.9 – 24.3 °C and minimum of 3.6 – 7.6 °C. Mean relative humidity of 91.67 % max and 39 % min was recorded in the past three days & average wind speed was 2.0 – 5.0 km/ hr.

Weather forecast for Thoubal (12th to 16th January, 2019)

Likely to have no rains and mainly clear to partly cloudy sky during next five days with max. temp. 22-23°C & mini. temp. 5-6°C. Relative humidity may reach upto 79% (max) and 45% (min). The average wind speed may be 2-4 km/hr.

General Advisories:

* As the temperature is low especially during morning hours and night time, measures may be taken up to protect animals and birds from cold.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering		- Keep soil moist for good vegetative growth. - Life saving irrigation may be given.
		Aphid	- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.
		caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.
		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> .
Potato	Vegetative to tuber initiation		- Irrigation may be given, if the soil is dry. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing.
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew and rust	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and Nimbecidin (0.3%) against rust.
Rabi maize	Sowing to Early Vegetative		- It may be sown as intercrop with pea/ lentil/ rapeseed. - Treat seeds with Carbendazim @ 2g/kg 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
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.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew and yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Vegetable (cole crops)	Vegetative	caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.

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	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Care and Management	Protect animals/ birds from sudden drop in temperature. Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Litters should be of 4.5 inches thick and stir it at regular interval.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O ₂) 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 excepts the young ones	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Care and Management	Sheds must be kept dry. Use bedding materials.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN****District: Ukhrul****Date of issue: 11th January, 2019****Significant past weather for the preceding bi-weekly of Imphal West (8th to 10th January, 19)**

No rainfall was observed during the past three days. The skies remained clear to partly cloudy. Maximum temperature ranged from 21.9 – 24.3 °C and minimum of 3.6 – 7.6 °C. Mean relative humidity of 91.67 % max and 39 % min was recorded in the past three days & average wind speed was 2.0 – 5.0 km/ hr.

Weather forecast for Ukhrul (12th to 16th January, 2019)

Likely to have no rains and mainly clear to partly cloudy sky during next five days with max. temp. 20-21°C & mini. temp. 4-5°C. Relative humidity may reach upto 81% (max) and 36% (min). The average wind speed may be 4-5 km/hr.

General Advisories:

* As the temperature is low especially during morning hours and night time, measures may be taken up to protect animals and birds from cold.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering		- Keep soil moist for good vegetative growth. - Life saving irrigation may be given.
		Aphid	- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.
		caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.
		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> .
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew and rust	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and Nimbicidin (0.3%) against rust.
Rabi maize	Sowing to Early Vegetative		- It may be sown as intercrop with pea/ lentil/ rapeseed. - Treat seeds with Carbendazim @ 2g/kg 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
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.
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew and yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Vegetable (cole crops)	Vegetative	caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.

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	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Care and Management	Protect animals/ birds from sudden drop in temperature. Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Litters should be of 4.5 inches thick and stir it at regular interval.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O ₂) 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 excepts the young ones	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Care and Management	Sheds must be kept dry. Use bedding materials.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 11th January, 2019**District: Bishnupur****Significant past weather for the preceding bi-weekly of Imphal West (8th to 10th January, 19)**

No rainfall was observed during the past three days. The skies remained clear to partly cloudy. Maximum temperature ranged from 21.9 – 24.3 °C and minimum of 3.6 – 7.6 °C. Mean relative humidity of 91.67 % max and 39 % min was recorded in the past three days & average wind speed was 2.0 – 5.0 km/ hr.

Weather forecast for Bishnupur (12th to 16th January, 2019)

Likely to have no rains and mainly clear to partly cloudy sky during next five days with max. temp. 22-23°C & mini. temp. 5-6°C. Relative humidity may reach upto 80% (max) and 39% (min). The average wind speed may be 2-4 km/hr.

General Advisories:

* As the temperature is low especially during morning hours and night time, measures may be taken up to protect animals and birds from cold.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering		- Keep soil moist for good vegetative growth. - Life saving irrigation may be given.
		Aphid	- Use yellow plates for every 3 sq. m to attract the aphids or spray Pyrethrum @ 2ml/ litre of water on the infected patches. For organic control against aphid, sprays that consist of Azadirachtin or neem oil may be used.
		caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.
		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> .
Potato	Vegetative to tuber initiation		- Irrigation may be given, if the soil is dry. - If it is 40-45 days old, light hoeing/ earthing up may be done followed by top dressing.
Field pea/ Lentil	Vegetative to early flowering	Powdery mildew and rust	- Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and Nimbecidin (0.3%) against rust.
Rabi maize	Sowing to Early Vegetative		- It may be sown as intercrop with pea/ lentil/ rapeseed. - Treat seeds with Carbendazim @ 2g/kg 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
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.
Tomato	Vegetative	Early blight	- Apply Dichlorovos @ 0.5ml/ litre of water or Imidachlorpid @ 2ml/ 5 litres of water. Also apply Dithane M 45 @ 2g/ litre of water.
Garden pea/ Broad bean	Flowering to fruiting	Powdery mildew and yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Rabi Vegetable (cole crops)	Vegetative	caterpillar	- If there is incidence of leaf eating caterpillar, spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. Spray Chloropyriphos @ 2ml/ litre of water on the infected patches only.

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	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Care and Management	Protect animals/ birds from sudden drop in temperature. Walls of sheds should be covered with polythene sheets/hessian cloths during the night. Litters should be of 4.5 inches thick and stir it at regular interval.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Coccidial infection	Ofloxacin/ Ornidazole (O ₂) 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 excepts the young ones	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Care and Management	Sheds must be kept dry. Use bedding materials.

(I. Meghachandra Singh)
Nodal Officer, GKMS