

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 15th January, 2019**District: Bishnupur****Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19)**

No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Bishnupur (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 21 °C & mini. temp. 3 °C. Relative humidity may reach upto 95% (max) and 30% (min). The average wind speed may be 2-6 km/hr.

General Advisories:

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering	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.
		White rust and Alternaria Blight	- Spray Metalayl 8% + Mancozeb64%WP @ 2.5g/ litre water.
		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.
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Vegetative to tuber initiation	Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
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
Cole crops	Vegetative to head formation	Diamond Black Moth	- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.
		Cabbage Borer	- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.
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.
Banana		Fruit rot and leaf spot	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.
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.

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	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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
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: 15th January, 2019*District: Chandel***Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19)**

No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Chandel (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 21 °C & mini. temp. 3 °C. Relative humidity may reach upto 95% (max) and 34% (min). The average wind speed may be 4-5 km/hr.

General Advisories:

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering	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.
		White rust and Alternaria Blight	- Spray Metalayl 8% + Mancozeb64%WP @ 2.5g/ litre water.
		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.
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Vegetative to tuber initiation	Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
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
Cole crops	Vegetative to head formation	Diamond Black Moth	- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.
		Cabbage Borer	- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.
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.
Banana		Fruit rot and leaf spot	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.
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.

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	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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
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: 15th January, 2019*District: Churachandpur*

Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19) No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.	Weather forecast for Churachandpur (16th to 20th January, 2019) Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 21 °C & mini. temp. 3 °C. Relative humidity may reach upto 95% (max) and 29% (min). The average wind speed may be 4-5 km/hr.
General Advisories: * Protect animals and birds from cold. * If the soil is dry, give light irrigation in the crop field.	

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering	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.
		White rust and Alternaria Blight	- Spray Metalayl 8% + Mancozeb64%WP @ 2.5g/ litre water.
		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.
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Vegetative to tuber initiation	Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
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
Cole crops	Vegetative to head formation	Diamond Black Moth Cabbage Borer	- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water. - Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.
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.
Banana		Fruit rot and leaf spot	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.
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.

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	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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
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: 15th January, 2019**District: Imphal East****Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19)**

No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Imphal East (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 21 °C & mini. temp. 3 °C. Relative humidity may reach upto 95% (max) and 28% (min). The average wind speed may be 5-6 km/hr.

General Advisories:

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering	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.
		White rust and Alternaria Blight	- Spray Metalayl 8% + Mancozeb64%WP @ 2.5g/ litre water.
		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.
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Vegetative to tuber initiation	Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
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
Cole crops	Vegetative to head formation	Diamond Black Moth	- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.
		Cabbage Borer	- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.
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.
Banana		Fruit rot and leaf spot	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.
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.

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	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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
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: 15th January, 2019**District: Imphal West****Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19)**

No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Imphal West (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 21 °C & mini. temp. 3 °C. Relative humidity may reach upto 95% (max) and 43% (min). The average wind speed may be 4-7 km/hr.

General Advisories:

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering	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.
		White rust and Alternaria Blight	- Spray Metalayl 8% + Mancozeb64%WP @ 2.5g/ litre water.
		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.
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Vegetative to tuber initiation	Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
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
Cole crops	Vegetative to head formation	Diamond Black Moth	- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.
		Cabbage Borer	- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.
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.
Banana		Fruit rot and leaf spot	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.
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.

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	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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
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: 15th January, 2019*District: Senapati***Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19)**

No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Senapati (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 19 °C & mini. temp. 1 °C. Relative humidity may reach upto 98% (max) and 37% (min). The average wind speed may be 4-5 km/hr.

General Advisories:

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering	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.
		White rust and Alternaria Blight	- Spray Metalayl 8% + Mancozeb64%WP @ 2.5g/ litre water.
		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.
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
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
Cole crops	Vegetative to head formation	Diamond Black Moth	- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.
		Cabbage Borer	- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre 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.
Banana		Fruit rot and leaf spot	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.
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.

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	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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
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: 15th January, 2019*District: Tamenglong***Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19)**

No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Tamenglong (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 19 °C & mini. temp. 1 °C. Relative humidity may reach upto 98% (max) and 37% (min). The average wind speed may be 4-5 km/hr.

General Advisories:

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering	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.
		White rust and Alternaria Blight	- Spray Metalaxyl 8% + Mancozeb 64% WP @ 2.5g/ litre water.
		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.
		Downey Mildew	Apply Mancozeb 75% WP @ 1.25 -2 kg/ ha at 7-10 days interval.
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
Cole crops	Vegetative to head formation	Diamond Black Moth	- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.
		Cabbage Borer	- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre 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.
Banana		Fruit rot and leaf spot	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.
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.

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	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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
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: 15th January, 2019**District: Thoubal****Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19)**

No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Thoubal (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 21 °C & mini. temp. 3 °C. Relative humidity may reach upto 95% (max) and 38% (min). The average wind speed may be 4-5 km/hr.

General Advisories:

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering	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.
		White rust and Alternaria Blight	- Spray Metalayl 8% + Mancozeb64%WP @ 2.5g/ litre water.
		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.
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
Potato	Vegetative to tuber initiation	Cut worm	If cut-worm is observed then prepare poison bait of Trichlorfon (mixture of 1kg husk + 40g sugar + 5g Trichlorfon + water) and apply manually by putting near the stem of plant above the soil surface.
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
Cole crops	Vegetative to head formation	Diamond Black Moth	- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.
		Cabbage Borer	- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre water.
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.
Banana		Fruit rot and leaf spot	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.
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.

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	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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
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: 15th January, 2019*District: Ukhrul***Significant past weather for the preceding bi-weekly of Imphal West (11th to 14th January, 19)**

No rainfall was observed during the past four days. The skies remained covered with shallow fog during morning hours and clear during afternoon hours. Maximum temperature ranged from 22.4 – 24.0 °C and minimum of 3.6 – 5.4 °C. Mean relative humidity of 90 % max and 46 % min was recorded in the past four days & average wind speed was 1.5 – 2.3 km/ hr.

Weather forecast for Ukhrul (16th to 20th January, 2019)

Likely to have no rains and shallow fog during morning hours and mainly clear to partly cloudy afternoon sky during next five days with max. temp. 19 °C & mini. temp. 1 °C. Relative humidity may reach upto 98% (max) and 30% (min). The average wind speed may be 4-5 km/hr.

General Advisories:

- * Protect animals and birds from cold.
- * If the soil is dry, give light irrigation in the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative to early flowering	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.
		White rust and Alternaria Blight	- Spray Metalayl 8% + Mancozeb64%WP @ 2.5g/ litre water.
		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.
		Downey Mildew	Apply Mancozeb 75%WP @ 1.25 -2 kg/ ha at 7-10 days interval.
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
Cole crops	Vegetative to head formation	Diamond Black Moth	- Spray Spinosad 2.5% SC formulation @ 6-7 ml/ 5 litre water.
		Cabbage Borer	- Apply Carbaryl 50% WP formulation @ 1.6ml/ 5 litre 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.
Banana		Fruit rot and leaf spot	- Spray Hexaconazole 5% EC formulation @ 1ml/ litre of water.
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.

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	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	Vaccination	Vaccinate against sheep/ goat pox and Enterotoxaemia.
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