

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 25th January, 2019*District: Bishnupur***Significant past weather for the preceding bi-weekly of Imphal West (22nd to 24th January, 19)**

No rainfall was observed during the past three days. The skies remained clear but shallow fog during morning hours on 24th Jan. Maximum temperature ranged from 24.0 – 24.5 °C and minimum of 3.4 – 4.9 °C. Mean relative humidity of 94 % max and 30 % min was recorded in the past three days & average wind speed was 1.4 – 2.1 km/ hr.

Weather forecast for Bishnupur (26th to 30th January, 2019)

Likely to have light rains on Monday and Tuesday and partly cloudy to mainly cloudy sky but overcast on Monday with max. temp. 25-26 °C & mini. temp. 6-7 °C. Relative humidity may reach upto 92 % (max) and 39 % (min). The average wind speed may be 3-5 km/hr.

General Advisories:

* Sprays mentioned below need to be applied before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes (colonies) may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		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	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	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.
		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 ² area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m ² 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	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. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. Litters should be of 4.5 inches thick and stir it at regular interval.
		Gumboro	- Gumboro disease vaccine (@ 1 drop/ 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.
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.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 25th January, 2019*District: Chandel***Significant past weather for the preceding bi-weekly of Imphal West (22nd to 24th January, 19)**

No rainfall was observed during the past three days. The skies remained clear but shallow fog during morning hours on 24th Jan. Maximum temperature ranged from 24.0 – 24.5 °C and minimum of 3.4 – 4.9 °C. Mean relative humidity of 94 % max and 30 % min was recorded in the past three days & average wind speed was 1.4 – 2.1 km/ hr.

Weather forecast for Chandel (26th to 30th January, 2019)

Likely to have light rains on Monday and Tuesday and partly cloudy to mainly cloudy sky but overcast on Monday with max. temp. 23-24 °C & mini. temp. 4-5 °C. Relative humidity may reach upto 92 % (max) and 48 % (min). The average wind speed may be 4-5 km/hr.

General Advisories:

* Sprays mentioned below need to be applied before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes (colonies) may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		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	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	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.
		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 ² area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m ² 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 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.

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. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. Litters should be of 4.5 inches thick and stir it at regular interval.
		Gumboro	- Gumboro disease vaccine (@ 1 drop/ 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.
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.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 25th January, 2019*District: Churachandpur***Significant past weather for the preceding bi-weekly of Imphal West (22nd to 24th January, 19)**

No rainfall was observed during the past three days. The skies remained clear but shallow fog during morning hours on 24th Jan. Maximum temperature ranged from 24.0 – 24.5 °C and minimum of 3.4 – 4.9 °C. Mean relative humidity of 94 % max and 30 % min was recorded in the past three days & average wind speed was 1.4 – 2.1 km/ hr.

Weather forecast for Churachandpur (26th to 30th January, 2019)

Likely to have light rains on Monday and Tuesday and partly cloudy to mainly cloudy sky but overcast on Monday with max. temp. 24-25 °C & mini. temp. 5-6 °C. Relative humidity may reach upto 92 % (max) and 42 % (min). The average wind speed may be 3-4 km/hr.

General Advisories:

* Sprays mentioned below need to be applied before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes (colonies) may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		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	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	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.
		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 ² area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m ² 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 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.

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. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. Litters should be of 4.5 inches thick and stir it at regular interval.
		Gumboro	- Gumboro disease vaccine (@ 1 drop/ 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.
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.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 25th January, 2019*District: Imphal East***Significant past weather for the preceding bi-weekly of Imphal West (22nd to 24th January, 19)**

No rainfall was observed during the past three days. The skies remained clear but shallow fog during morning hours on 24th Jan. Maximum temperature ranged from 24.0 – 24.5 °C and minimum of 3.4 – 4.9 °C. Mean relative humidity of 94 % max and 30 % min was recorded in the past three days & average wind speed was 1.4 – 2.1 km/ hr.

Weather forecast for Imphal East (26th to 30th January, 2019)

Likely to have light rains on Monday and Tuesday and partly cloudy to mainly cloudy sky but overcast on Monday with max. temp. 24-25 °C & mini. temp. 5-6 °C. Relative humidity may reach upto 92 % (max) and 32 % (min). The average wind speed may be 5-7 km/hr.

General Advisories:

* Sprays mentioned below need to be applied before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes (colonies) may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		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	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	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.
		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 ² area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m ² 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	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. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. Litters should be of 4.5 inches thick and stir it at regular interval.
		Gumboro	- Gumboro disease vaccine (@ 1 drop/ 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.
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.

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 25th January, 2019*District: Imphal West***Significant past weather for the preceding bi-weekly of Imphal West (22nd to 24th January, 19)**

No rainfall was observed during the past three days. The skies remained clear but shallow fog during morning hours on 24th Jan. Maximum temperature ranged from 24.0 – 24.5 °C and minimum of 3.4 – 4.9 °C. Mean relative humidity of 94 % max and 30 % min was recorded in the past three days & average wind speed was 1.4 – 2.1 km/ hr.

Weather forecast for Imphal West (26th to 30th January, 2019)

Likely to have light rains on Monday and Tuesday and partly cloudy to mainly cloudy sky but overcast on Monday with max. temp. 24-25 °C & mini. temp. 5-6 °C. Relative humidity may reach upto 88 % (max) and 32 % (min). The average wind speed may be 4-5 km/hr.

General Advisories:

* Sprays mentioned below need to be applied before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes (colonies) may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		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	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	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.
		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 ² area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m ² 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	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. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. Litters should be of 4.5 inches thick and stir it at regular interval.
		Gumboro	- Gumboro disease vaccine (@ 1 drop/ 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.
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.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 25th January, 2019*District: Senapati***Significant past weather for the preceding bi-weekly of Imphal West (22nd to 24th January, 19)**

No rainfall was observed during the past three days. The skies remained clear but shallow fog during morning hours on 24th Jan. Maximum temperature ranged from 24.0 – 24.5 °C and minimum of 3.4 – 4.9 °C. Mean relative humidity of 94 % max and 30 % min was recorded in the past three days & average wind speed was 1.4 – 2.1 km/ hr.

Weather forecast for Senapati (26th to 30th January, 2019)

Likely to have light rains on Monday and Tuesday and partly cloudy to mainly cloudy sky but overcast on Monday with max. temp. 22-23 °C & mini. temp. 3-4 °C. Relative humidity may reach upto 90 % (max) and 38 % (min). The average wind speed may be 4-5 km/hr.

General Advisories:

* Sprays mentioned below need to be applied before rains.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes (colonies) may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		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	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.
Pre-kharif rice	Seed collection to nursery raising		- Prepare 700 m ² area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m ² 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 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.
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	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. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. Litters should be of 4.5 inches thick and stir it at regular interval.
		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.
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.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 25th January, 2019*District: Tamenglong***Significant past weather for the preceding bi-weekly of Imphal West (22nd to 24th January, 19)**

No rainfall was observed during the past three days. The skies remained clear but shallow fog during morning hours on 24th Jan. Maximum temperature ranged from 24.0 – 24.5 °C and minimum of 3.4 – 4.9 °C. Mean relative humidity of 94 % max and 30 % min was recorded in the past three days & average wind speed was 1.4 – 2.1 km/ hr.

Weather forecast for Tamenglong (26th to 30th January, 2019)

Likely to have light rains on Monday and Tuesday and partly cloudy to mainly cloudy sky but overcast on Monday with max. temp. 23-24 °C & mini. temp. 3-5 °C. Relative humidity may reach upto 90 % (max) and 32 % (min). The average wind speed may be 3-5 km/hr.

General Advisories:

* Sprays mentioned below need to be applied before rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes (colonies) may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		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	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	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.
		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 ² area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m ² 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	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. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. Litters should be of 4.5 inches thick and stir it at regular interval.
		Gumboro	- Gumboro disease vaccine (@ 1 drop/ 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.
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.

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 25th January, 2019*District: Thoubal***Significant past weather for the preceding bi-weekly of Imphal West (22nd to 24th January, 19)**

No rainfall was observed during the past three days. The skies remained clear but shallow fog during morning hours on 24th Jan. Maximum temperature ranged from 24.0 – 24.5 °C and minimum of 3.4 – 4.9 °C. Mean relative humidity of 94 % max and 30 % min was recorded in the past three days & average wind speed was 1.4 – 2.1 km/ hr.

Weather forecast for Thoubal (26th to 30th January, 2019)

Likely to have light rains on Monday and Tuesday and partly cloudy to mainly cloudy sky but overcast on Monday with max. temp. 25-26 °C & mini. temp. 6-7 °C. Relative humidity may reach upto 92 % (max) and 49 % (min). The average wind speed may be 4-5 km/hr.

General Advisories:

* Sprays mentioned below need to be applied before rains.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes (colonies) may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		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	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	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.
		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 ² area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m ² 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	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. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. Litters should be of 4.5 inches thick and stir it at regular interval.
		Gumboro	- Gumboro disease vaccine (@ 1 drop/ 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.
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.

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 25th January, 2019*District: Ukhrul***Significant past weather for the preceding bi-weekly of Imphal West (22nd to 24th January, 19)**

No rainfall was observed during the past three days. The skies remained clear but shallow fog during morning hours on 24th Jan. Maximum temperature ranged from 24.0 – 24.5 °C and minimum of 3.4 – 4.9 °C. Mean relative humidity of 94 % max and 30 % min was recorded in the past three days & average wind speed was 1.4 – 2.1 km/ hr.

Weather forecast for Ukhrul (26th to 30th January, 2019)

Likely to have light rains on Monday and Tuesday and partly cloudy to mainly cloudy sky but overcast on Monday with max. temp. 23-24 °C & mini. temp. 4-5 °C. Relative humidity may reach upto 90 % (max) and 38 % (min). The average wind speed may be 4-5 km/hr.

General Advisories:

* Sprays mentioned below need to be applied before rains.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Flowering		- If flowering has started, then four bee boxes (colonies) may be kept for one hectare crop area. Avoid spray of insecticides in such area.
		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	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.
Pre-kharif rice	Seed collection to nursery raising		- Prepare 700 m ² area for raising pre-kharif rice nursery for transplanting in 1 ha land. Apply well decomposed FYM/ compost @ 1 t/ 700 m ² 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 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.
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	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. Use electric bulb or charcoal at night time to keep rooms warm in poultry shed. Litters should be of 4.5 inches thick and stir it at regular interval.
		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.
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.

(I. Meghachandra Singh)
Nodal Officer, GKMS