

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 12th December, 2018**District: Bishnupur****Significant past weather for the preceding bi-weekly of Imphal West (7th to 11th Dec, 2018)**

No rainfall observed during the past four days. Shallow to dense fog was observed during morning hours and the sky remained mainly clear during afternoon hours. Maximum temperature ranged from 22.9 - 24.1 °C and minimum of 4.0 – 5.3 °C. Mean relative humidity of 90.5 % max and 38.8 % min was recorded in the past four days & average wind speed was 1.2 – 1.7 km/ hr.

Weather forecast for Bishnupur (13th to 17th Dec, 2018)

Likely to have light rains during Friday to Saturday and partly cloudy to mainly cloudy sky during next five days with maximum temp. 23-24 °C & minimum temp. 6-8 °C. Relative humidity may reach upto 86 % (max) and 70 % (min). The average wind speed may be 3-4 km/hr.

General Advisories:

- * Light watering on young plants during morning hours may be done to reduce the adverse effects of fog or frost on rabi vegetables.
- * Regularly monitor for the moisture level of the soil. If the soil is too dry, give light irrigation.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative		- If the soil is too dry, give life-saving irrigation as there is likely to have light rains on Friday and Saturday.
Field pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative to flowering	Thrips	- Spray Tracer (Spinosad) 48 SC @ 300ml/ ha or Imidachloprid @ 1ml/3-4 litre of water or Fipronil @ 2ml/ litre of water. - Sufficient watering will increase moisture & inhibit their development.
Lentil	Vegetative		- Thinning may be done where the plant population is high. Give life-saving irrigation.
Rabi maize	Land preparation to sowing		- Sowing of rabi maize may be started. It may be sown as intercrop with pulses with 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
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. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole Crops	Curd/ head formation to harvesting of mid-season var. and transplanting of late variety	leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
		Cut Worm	- If missing, cut or wilted plant is observed then search for larvae in the soil near damaged plant. If 5% or more of the plants have been cut then apply Phorate10G @25kg/ha or Metarrhizium anisopliae @ 5ml/ lit water.
Onion	Vegetative		- Give life-saving irrigation. Keep soil moist during vegetative stage.
Garden pea	Vegetative		- Regularly monitor for soil moisture level in the crop field and insect pest infestation. - Avoid plucking off of young shoots.

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.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Care and Management	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.
		Vaccination	Vaccinate against FMD, HS, BQ & Enterotoxaemia, etc.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/lit. Of water and bath with the solution
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	Give Rafoxamide plus Levamizole (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: 12th December, 2018**District: Chandel****Significant past weather for the preceding bi-weekly of Imphal West (7th to 11th Dec, 2018)**

No rainfall observed during the past four days. Shallow to dense fog was observed during morning hours and the sky remained mainly clear during afternoon hours. Maximum temperature ranged from 22.9 - 24.1 °C and minimum of 4.0 – 5.3 °C. Mean relative humidity of 90.5 % max and 38.8 % min was recorded in the past four days & average wind speed was 1.2 – 1.7 km/ hr.

Weather forecast for Chandel (13th to 17th Dec, 2018)

Likely to have light rains during Friday to Saturday and partly cloudy to mainly cloudy sky during next five days with maximum temp. 23-24 °C & minimum temp. 6-8 °C. Relative humidity may reach upto 86 % (max) and 72 % (min). The average wind speed may be 2-5 km/hr.

General Advisories:

- * Light watering on young plants during morning hours may be done to reduce the adverse effects of fog or frost on rabi vegetables.
- * Regularly monitor for the moisture level of the soil. If the soil is too dry, give light irrigation.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative		- If the soil is too dry, give life-saving irrigation as there is likely to have light rains on Friday and Saturday.
Field pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative to flowering	Thrips	- Spray Tracer (Spinosad) 48 SC @ 300ml/ ha or Imidachloprid @ 1ml/3-4 litre of water or Fipronil @ 2ml/ litre of water. - Sufficient watering will increase moisture & inhibit their development.
Lentil	Vegetative		- Thinning may be done where the plant population is high. Give life-saving irrigation.
Rabi maize	Land preparation to sowing		- Sowing of rabi maize may be started. It may be sown as intercrop with pulses with 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
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. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole Crops	Curd/ head formation to harvesting of mid-season var. and transplanting of late variety	leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
		Cut Worm	- If missing, cut or wilted plant is observed then search for larvae in the soil near damaged plant. If 5% or more of the plants have been cut then apply Phorate10G @25kg/ha or Metarrhizium anisopliae @ 5ml/ lit water.
Onion	Vegetative		- Give life-saving irrigation. Keep soil moist during vegetative stage.
Garden pea	Vegetative		- Regularly monitor for soil moisture level in the crop field and insect pest infestation. - Avoid plucking off of young shoots.

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.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Care and Management	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.
		Vaccination	Vaccinate against FMD, HS, BQ & Enterotoxaemia, etc.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/lit. Of water and bath with the solution
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		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: 12th December, 2018*District: Churachandpur***Significant past weather for the preceding bi-weekly of Imphal West (7th to 11th Dec, 2018)**

No rainfall observed during the past four days. Shallow to dense fog was observed during morning hours and the sky remained mainly clear during afternoon hours. Maximum temperature ranged from 22.9 - 24.1 °C and minimum of 4.0 – 5.3 °C. Mean relative humidity of 90.5 % max and 38.8 % min was recorded in the past four days & average wind speed was 1.2 – 1.7 km/ hr.

Weather forecast for Churachandpur (13th to 17th Dec, 2018)

Likely to have light rains during Friday to Saturday and partly cloudy to mainly cloudy sky during next five days with maximum temp. 23-24 °C & minimum temp. 7-8 °C. Relative humidity may reach upto 86 % (max) and 78 % (min). The average wind speed may be 3-4 km/hr.

General Advisories:

- * Light watering on young plants during morning hours may be done to reduce the adverse effects of fog or frost on rabi vegetables.
- * Regularly monitor for the moisture level of the soil. If the soil is too dry, give light irrigation.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative		- If the soil is too dry, give life-saving irrigation as there is likely to have light rains on Friday and Saturday.
Field pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative to flowering	Thrips	- Spray Tracer (Spinosad) 48 SC @ 300ml/ ha or Imidachloprid @ 1ml/3-4 litre of water or Fipronil @ 2ml/ litre of water. - Sufficient watering will increase moisture & inhibit their development.
Lentil	Vegetative		- Thinning may be done where the plant population is high. Give life-saving irrigation.
Rabi maize	Land preparation to sowing		- Sowing of rabi maize may be started. It may be sown as intercrop with pulses with 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
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. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole Crops	Curd/ head formation to harvesting of mid-season var. and transplanting of late variety	leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
		Cut Worm	- If missing, cut or wilted plant is observed then search for larvae in the soil near damaged plant. If 5% or more of the plants have been cut then apply Phorate10G @25kg/ha or Metarrhizium anisopliae @ 5ml/ lit water.
Onion	Vegetative		- Give life-saving irrigation. Keep soil moist during vegetative stage.
Garden pea	Vegetative		- Regularly monitor for soil moisture level in the crop field and insect pest infestation. - Avoid plucking off of young shoots.

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.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Care and Management	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.
		Vaccination	Vaccinate against FMD, HS, BQ & Enterotoxaemia, etc.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/lit. Of water and bath with the solution
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		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: 12th December, 2018*District: Imphal East***Significant past weather for the preceding bi-weekly of Imphal West (7th to 11th Dec, 2018)**

No rainfall observed during the past four days. Shallow to dense fog was observed during morning hours and the sky remained mainly clear during afternoon hours. Maximum temperature ranged from 22.9 - 24.1 °C and minimum of 4.0 – 5.3 °C. Mean relative humidity of 90.5 % max and 38.8 % min was recorded in the past four days & average wind speed was 1.2 – 1.7 km/ hr.

Weather forecast for Imphal East (13th to 17th Dec, 2018)

Likely to have light rains during Friday to Saturday and partly cloudy to mainly cloudy sky during next five days with maximum temp. 23-24 °C & minimum temp. 6-8 °C. Relative humidity may reach upto 86 % (max) and 58 % (min). The average wind speed may be 3-6 km/hr.

General Advisories:

- * Light watering on young plants during morning hours may be done to reduce the adverse effects of fog or frost on rabi vegetables.
- * Regularly monitor for the moisture level of the soil. If the soil is too dry, give light irrigation.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative		- If the soil is too dry, give life-saving irrigation as there is likely to have light rains on Friday and Saturday.
Field pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative to flowering	Thrips	- Spray Tracer (Spinosad) 48 SC @ 300ml/ ha or Imidachloprid @ 1ml/3-4 litre of water or Fipronil @ 2ml/ litre of water. - Sufficient watering will increase moisture & inhibit their development.
Lentil	Vegetative		- Thinning may be done where the plant population is high. Give life-saving irrigation.
Rabi maize	Land preparation to sowing		- Sowing of rabi maize may be started. It may be sown as intercrop with pulses with 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
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. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole Crops	Curd/ head formation to harvesting of mid-season var. and transplanting of late variety	leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
		Cut Worm	- If missing, cut or wilted plant is observed then search for larvae in the soil near damaged plant. If 5% or more of the plants have been cut then apply Phorate10G @25kg/ha or Metarrhizium anisopliae @ 5ml/ lit water.
Onion	Vegetative		- Give life-saving irrigation. Keep soil moist during vegetative stage.
Garden pea	Vegetative		- Regularly monitor for soil moisture level in the crop field and insect pest infestation. - Avoid plucking off of young shoots.

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.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Care and Management	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.
		Vaccination	Vaccinate against FMD, HS, BQ & Enterotoxaemia, etc.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/lit. Of water and bath with the solution
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		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: 12th December, 2018*District: Imphal West***Significant past weather for the preceding bi-weekly of Imphal West (7th to 11th Dec, 2018)**

No rainfall observed during the past four days. Shallow to dense fog was observed during morning hours and the sky remained mainly clear during afternoon hours. Maximum temperature ranged from 22.9 - 24.1 °C and minimum of 4.0 – 5.3 °C. Mean relative humidity of 90.5 % max and 38.8 % min was recorded in the past four days & average wind speed was 1.2 – 1.7 km/ hr.

Weather forecast for Imphal West (13th to 17th Dec, 2018)

Likely to have light rains during Friday to Saturday and partly cloudy to mainly cloudy sky during next five days with maximum temp. 23 °C & minimum temp. 6-8 °C. Relative humidity may reach upto 86 % (max) and 55 % (min). The average wind speed may be 4-5 km/hr.

General Advisories:

- * Light watering on young plants during morning hours may be done to reduce the adverse effects of fog or frost on rabi vegetables.
- * Regularly monitor for the moisture level of the soil. If the soil is too dry, give light irrigation.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative		- If the soil is too dry, give life-saving irrigation as there is likely to have light rains on Friday and Saturday.
Field pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative to flowering	Thrips	- Spray Tracer (Spinosad) 48 SC @ 300ml/ ha or Imidachloprid @ 1ml/3-4 litre of water or Fipronil @ 2ml/ litre of water. - Sufficient watering will increase moisture & inhibit their development.
Lentil	Vegetative		- Thinning may be done where the plant population is high. Give life-saving irrigation.
Rabi maize	Land preparation to sowing		- Sowing of rabi maize may be started. It may be sown as intercrop with pulses with 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
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. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole Crops	Curd/ head formation to harvesting of mid-season var. and transplanting of late variety	leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
		Cut Worm	- If missing, cut or wilted plant is observed then search for larvae in the soil near damaged plant. If 5% or more of the plants have been cut then apply Phorate10G @25kg/ha or Metarrhizium anisopliae @ 5ml/ lit water.
Onion	Vegetative		- Give life-saving irrigation. Keep soil moist during vegetative stage.
Garden pea	Vegetative		- Regularly monitor for soil moisture level in the crop field and insect pest infestation. - Avoid plucking off of young shoots.

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.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Care and Management	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.
		Vaccination	Vaccinate against FMD, HS, BQ & Enterotoxaemia, etc.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/lit. Of water and bath with the solution
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		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: 12th December, 2018*District: Senapati***Significant past weather for the preceding bi-weekly of Imphal West (7th to 11th Dec, 2018)**

No rainfall observed during the past four days. Shallow to dense fog was observed during morning hours and the sky remained mainly clear during afternoon hours. Maximum temperature ranged from 22.9 - 24.1 °C and minimum of 4.0 – 5.3 °C. Mean relative humidity of 90.5 % max and 38.8 % min was recorded in the past four days & average wind speed was 1.2 – 1.7 km/ hr.

Weather forecast for Senapati (13th to 17th Dec, 2018)

Likely to have light rains during Friday to Saturday and partly cloudy to mainly cloudy sky during next five days with maximum temp. 21-22 °C & minimum temp. 4 °C. Relative humidity may reach upto 86 % (max) and 56 % (min). The average wind speed may be 3-5 km/hr.

General Advisories:

- * Light watering on young plants during morning hours may be done to reduce the adverse effects of fog or frost on rabi vegetables.
- * Regularly monitor for the moisture level of the soil. If the soil is too dry, give light irrigation.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative		- If the soil is too dry, give life-saving irrigation as there is likely to have light rains on Friday and Saturday.
Field pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Lentil	Vegetative		- Thinning may be done where the plant population is high. Give life-saving irrigation.
Rabi maize	Land preparation to sowing		- Sowing of rabi maize may be started. It may be sown as intercrop with pulses with 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
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. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole Crops	Curd/ head formation to harvesting of mid-season var. and transplanting of late variety	leaf eating caterpillar Cut Worm	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. - If missing, cut or wilted plant is observed then search for larvae in the soil near damaged plant. If 5% or more of the plants have been cut then apply Phorate10G @25kg/ha or Metarrhizium anisopliae @ 5ml/ lit water.
Onion	Vegetative		- Give life-saving irrigation. Keep soil moist during vegetative stage.
Garden pea	Vegetative		- Regularly monitor for soil moisture level in the crop field and insect pest infestation. - Avoid plucking off of young shoots.

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.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Care and Management	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.
		Vaccination	Vaccinate against FMD, HS, BQ & Enterotoxaemia, etc.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/lit. Of water and bath with the solution
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		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: 12th December, 2018**District: Tamenglong****Significant past weather for the preceding bi-weekly of Imphal West (7th to 11th Dec, 2018)**

No rainfall observed during the past four days. Shallow to dense fog was observed during morning hours and the sky remained mainly clear during afternoon hours. Maximum temperature ranged from 22.9 - 24.1 °C and minimum of 4.0 – 5.3 °C. Mean relative humidity of 90.5 % max and 38.8 % min was recorded in the past four days & average wind speed was 1.2 – 1.7 km/ hr.

Weather forecast for Tamenglong (13th to 17th Dec, 2018)

Likely to have light rains during Friday to Saturday and partly cloudy to mainly cloudy sky during next five days with maximum temp. 23-24 °C & minimum temp. 7-8 °C. Relative humidity may reach upto 86 % (max) and 57 % (min). The average wind speed may be 3-4 km/hr.

General Advisories:

- * Light watering on young plants during morning hours may be done to reduce the adverse effects of fog or frost on rabi vegetables.
- * Regularly monitor for the moisture level of the soil. If the soil is too dry, give light irrigation.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative		- If the soil is too dry, give life-saving irrigation as there is likely to have light rains on Friday and Saturday.
Field pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative to flowering	Thrips	- Spray Tracer (Spinosad) 48 SC @ 300ml/ ha or Imidachloprid @ 1ml/3-4 litre of water or Fipronil @ 2ml/ litre of water. - Sufficient watering will increase moisture & inhibit their development.
Lentil	Vegetative		- Thinning may be done where the plant population is high. Give life-saving irrigation.
Rabi maize	Land preparation to sowing		- Sowing of rabi maize may be started. It may be sown as intercrop with pulses with 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
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. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole Crops	Curd/ head formation to harvesting of mid-season var. and transplanting of late variety	leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
		Cut Worm	- If missing, cut or wilted plant is observed then search for larvae in the soil near damaged plant. If 5% or more of the plants have been cut then apply Phorate10G @25kg/ha or Metarrhizium anisopliae @ 5ml/ lit water.
Onion	Vegetative		- Give life-saving irrigation. Keep soil moist during vegetative stage.
Garden pea	Vegetative		- Regularly monitor for soil moisture level in the crop field and insect pest infestation. - Avoid plucking off of young shoots.

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.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Care and Management	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.
		Vaccination	Vaccinate against FMD, HS, BQ & Enterotoxaemia, etc.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/lit. Of water and bath with the solution
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	Give Rafoxamide plus Levamizole (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: 12th December, 2018**District: Thoubal****Significant past weather for the preceding bi-weekly of Imphal West (7th to 11th Dec, 2018)**

No rainfall observed during the past four days. Shallow to dense fog was observed during morning hours and the sky remained mainly clear during afternoon hours. Maximum temperature ranged from 22.9 - 24.1 °C and minimum of 4.0 – 5.3 °C. Mean relative humidity of 90.5 % max and 38.8 % min was recorded in the past four days & average wind speed was 1.2 – 1.7 km/ hr.

Weather forecast for Thoubal (13th to 17th Dec, 2018)

Likely to have light rains during Friday to Saturday and partly cloudy to mainly cloudy sky during next five days with maximum temp. 23-24 °C & minimum temp. 6-8 °C. Relative humidity may reach upto 86 % (max) and 72 % (min). The average wind speed may be 2-5 km/hr.

General Advisories:

- * Light watering on young plants during morning hours may be done to reduce the adverse effects of fog or frost on rabi vegetables.
- * Regularly monitor for the moisture level of the soil. If the soil is too dry, give light irrigation.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative		- If the soil is too dry, give life-saving irrigation as there is likely to have light rains on Friday and Saturday.
Field pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Potato	Vegetative to flowering	Thrips	- Spray Tracer (Spinosad) 48 SC @ 300ml/ ha or Imidachloprid @ 1ml/3-4 litre of water or Fipronil @ 2ml/ litre of water. - Sufficient watering will increase moisture & inhibit their development.
Lentil	Vegetative		- Thinning may be done where the plant population is high. Give life-saving irrigation.
Rabi maize	Land preparation to sowing		- Sowing of rabi maize may be started. It may be sown as intercrop with pulses with 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
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. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole Crops	Curd/ head formation to harvesting of mid-season var. and transplanting of late variety	leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
		Cut Worm	- If missing, cut or wilted plant is observed then search for larvae in the soil near damaged plant. If 5% or more of the plants have been cut then apply Phorate10G @25kg/ha or Metarrhizium anisopliae @ 5ml/ lit water.
Onion	Vegetative		- Give life-saving irrigation. Keep soil moist during vegetative stage.
Garden pea	Vegetative		- Regularly monitor for soil moisture level in the crop field and insect pest infestation. - Avoid plucking off of young shoots.

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.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Care and Management	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.
		Vaccination	Vaccinate against FMD, HS, BQ & Enterotoxaemia, etc.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/lit. Of water and bath with the solution
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		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: 12th December, 2018*District: Ukhrul***Significant past weather for the preceding bi-weekly of Imphal West (7th to 11th Dec, 2018)**

No rainfall observed during the past four days. Shallow to dense fog was observed during morning hours and the sky remained mainly clear during afternoon hours. Maximum temperature ranged from 22.9 - 24.1 °C and minimum of 4.0 – 5.3 °C. Mean relative humidity of 90.5 % max and 38.8 % min was recorded in the past four days & average wind speed was 1.2 – 1.7 km/ hr.

Weather forecast for Ukhrul (13th to 17th Dec, 2018)

Likely to have light rains during Friday to Saturday and partly cloudy to mainly cloudy sky during next five days with maximum temp. 21-22 °C & minimum temp. 4 °C. Relative humidity may reach upto 86 % (max) and 59 % (min). The average wind speed may be 3-5 km/hr.

General Advisories:

- * Light watering on young plants during morning hours may be done to reduce the adverse effects of fog or frost on rabi vegetables.
- * Regularly monitor for the moisture level of the soil. If the soil is too dry, give light irrigation.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard	Vegetative		- If the soil is too dry, give life-saving irrigation as there is likely to have light rains on Friday and Saturday.
Field pea	Vegetative	Aphid	- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid. - For organic control against aphid, sprays that consist of Azadirachtin, Neem oil or Pyrethrin may be used.
Lentil	Vegetative		- Thinning may be done where the plant population is high. Give life-saving irrigation.
Rabi maize	Land preparation to sowing		- Sowing of rabi maize may be started. It may be sown as intercrop with pulses with 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole Crops	Curd/ head formation to harvesting of mid-season var. and transplanting of late variety	leaf eating caterpillar Cut Worm	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water. - If missing, cut or wilted plant is observed then search for larvae in the soil near damaged plant. If 5% or more of the plants have been cut then apply Phorate10G @25kg/ha or Metarrhizium anisopliae @ 5ml/ lit water.
Onion	Vegetative		- Give life-saving irrigation. Keep soil moist during vegetative stage.
Garden pea	Vegetative		- Regularly monitor for soil moisture level in the crop field and insect pest infestation. - Avoid plucking off of young shoots.

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.
		Deworming	Use Ventrizole @ 1g in 1 litre of drinking water for 3 days.
		Care and Management	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.
		Vaccination	Vaccinate against FMD, HS, BQ & Enterotoxaemia, etc.
Pig	All age groups except the young ones	Deworming	Albendazole Plus Avermectin Table 6 mg/adult.
		Skin diseases	Protect from skin disease by using Deltamethrin solution @2ml/lit. Of water and bath with the solution
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		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