

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 22nd November, 2019

District: Thoubal

Past weather for the of Imphal West (19th to 21st November, 2019):

No rainfall was observed during the past three days. The skies remained mainly clear to partly cloudy but foggy during morning hours of 21st Dec. Maximum temperature ranged from 26.2-26.7 °C and minimum of 11.4–13.0 °C. Mean relative humidity of 93 % max & 46.3 % min was recorded in the past three days & average wind speed was 1.3–1.6 km/hr.

Weather forecast for Thoubal (23rd to 27th Nov, 2019):

Likely to have no rain upto Wednesday but there may be light rains on Tuesday. The sky will remain mainly clear to partly cloudy with max. temp. 24-26 °C & mini. temp. 8-10 °C. Relative humidity may reach upto 98 % (max) & 59 % (min). The average wind speed may be 2-4 km/hr.

General Advisory:

1. Harvest mature crops. Thresh clean and sundry seeds properly in sun before storage. Store seeds in RC Seed Bin.
2. Monitor insect pest infestation/ diseases and water requirement of crops/ animals/ birds/ fishes regularly.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed	Sowing to vegetative		<ul style="list-style-type: none"> - Zero tillage rapeseed may be sown at 30 cm row spacing when the soil creates impression with forefinger. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety– M-27 and PM-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey mildew at seedling stage. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Field pea	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare. - Avoid plucking of young shoots. Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Lentil	Sowing to vegetative		<ul style="list-style-type: none"> - Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Potato	Planting to vegetative		<ul style="list-style-type: none"> - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare. - Weeding may be done if weed population is high.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome maturity to harvesting and post- harvesting		<ul style="list-style-type: none"> - 9 months old crops may be harvested. Harvested crop must be kept under rain shelter sheds for curing. After proper cleaning and grading it may be processed to powder for domestic as well as market use. Select healthy disease free rhizomes for seed.
Spinach beet (Palak)	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Monitor insect pest regularly. - Weeding may be done. - Light watering may be done during morning hours.
Onion	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Weeding may be done. - Light watering may be done during morning hours.
Broad bean/ Garden Pea/ French bean	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Weeding may be done.



Cabbage	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting. - Weeding may be done if weed population is high.
Cauliflower	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

* Protect birds and animals from cold.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Care and Management	Walls of sheds should be covered with polythene sheets/hessian cloths during the night.
		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.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Fish stocking may be done in small scale. Feeds should be provided @ 3 % body weight per day. Harvesting of fishes may be done. Select disease free fishes to be stocked as brooder.
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(I. Meghachandra Singh)
Scientist i/c, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 22nd November, 2019

District: Ukhrul

Past weather for the of Imphal West (19th to 21st November, 2019):

No rainfall was observed during the past three days. The skies remained mainly clear to partly cloudy but foggy during morning hours of 21st Dec. Maximum temperature ranged from 26.2-26.7 °C and minimum of 11.4–13.0 °C. Mean relative humidity of 93 % max & 46.3 % min was recorded in the past three days & average wind speed was 1.3–1.6 km/hr.

Weather forecast for Ukhrul (23rd to 27th Nov, 2019):

Likely to have no rain upto Wednesday but there may be light rains on Tuesday. The sky will remain mainly clear to partly cloudy with max. temp. 21-23 °C & mini. temp. 5-7 °C. Relative humidity may reach upto 97 % (max) & 48 % (min). The average wind speed may be 4 km/hr.

General Advisory:

1. Harvest mature crops. Thresh clean and sundry seeds properly in sun before storage. Store seeds in RC Seed Bin.
2. Monitor insect pest infestation/ diseases and water requirement of crops/ animals/ birds/ fishes regularly.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed	Sowing to vegetative		<ul style="list-style-type: none"> - Zero tillage rapeseed may be sown at 30 cm row spacing when the soil creates impression with forefinger. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety– M-27 and PM-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey mildew at seedling stage. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Field pea	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare. - Avoid plucking of young shoots. Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Lentil	Sowing to vegetative		<ul style="list-style-type: none"> - Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Potato	Planting to vegetative		<ul style="list-style-type: none"> - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare. - Weeding may be done if weed population is high.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome maturity to harvesting and post- harvesting		<ul style="list-style-type: none"> - 9 months old crops may be harvested. Harvested crop must be kept under rain shelter sheds for curing. After proper cleaning and grading it may be processed to powder for domestic as well as market use. Select healthy disease free rhizomes for seed.
Spinach beet (Palak)	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Monitor insect pest regularly. - Weeding may be done. - Light watering may be done during morning hours.
Onion	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Weeding may be done. - Light watering may be done during morning hours.
Broad bean/ Garden Pea/ French bean	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Weeding may be done.



Cabbage	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting. - Weeding may be done if weed population is high.
Cauliflower	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

* Protect birds and animals from cold.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Care and Management	Walls of sheds should be covered with polythene sheets/hessian cloths during the night.
		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.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Fish stocking may be done in small scale. Feeds should be provided @ 3 % body weight per day. Harvesting of fishes may be done. Select disease free fishes to be stocked as brooder.
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(I. Meghachandra Singh)
Scientist i/c, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 22nd November, 2019

District: Bishnupur

Past weather for the of Imphal West (19th to 21st November, 2019):

No rainfall was observed during the past three days. The skies remained mainly clear to partly cloudy but foggy during morning hours of 21st Dec. Maximum temperature ranged from 26.2-26.7 °C and minimum of 11.4–13.0 °C. Mean relative humidity of 93 % max & 46.3 % min was recorded in the past three days & average wind speed was 1.3–1.6 km/hr.

Weather forecast for Bishnupur (23rd to 27th Nov, 2019):

Likely to have no rain upto Wednesday but there may be light rains on Tuesday. The sky will remain mainly clear to partly cloudy with max. temp. 24-26 °C & mini. temp. 8-10 °C. Relative humidity may reach upto 99 % (max) & 52 % (min). The average wind speed may be 2-3 km/hr.

General Advisory:

1. Harvest mature crops. Thresh clean and sundry seeds properly in sun before storage. Store seeds in RC Seed Bin.
2. Monitor insect pest infestation/ diseases and water requirement of crops/ animals/ birds/ fishes regularly.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed	Sowing to vegetative		<ul style="list-style-type: none"> - Zero tillage rapeseed may be sown at 30 cm row spacing when the soil creates impression with forefinger. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety– M-27 and PM-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey mildew at seedling stage. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Field pea	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare. - Avoid plucking of young shoots. Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Lentil	Sowing to vegetative		<ul style="list-style-type: none"> - Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Potato	Planting to vegetative		<ul style="list-style-type: none"> - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare. - Weeding may be done if weed population is high.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome maturity to harvesting and post- harvesting		<ul style="list-style-type: none"> - 9 months old crops may be harvested. Harvested crop must be kept under rain shelter sheds for curing. After proper cleaning and grading it may be processed to powder for domestic as well as market use. Select healthy disease free rhizomes for seed.
Spinach beet (Palak)	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Monitor insect pest regularly. - Weeding may be done. - Light watering may be done during morning hours.
Onion	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Weeding may be done. - Light watering may be done during morning hours.
Broad bean/ Garden Pea/ French bean	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Weeding may be done.



Cabbage	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting. - Weeding may be done if weed population is high.
Cauliflower	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

* Protect birds and animals from cold.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Care and Management	Walls of sheds should be covered with polythene sheets/hessian cloths during the night.
		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.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Fish stocking may be done in small scale. Feeds should be provided @ 3 % body weight per day. Harvesting of fishes may be done. Select disease free fishes to be stocked as brooder.
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(I. Meghachandra Singh)
Scientist i/c, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 22nd November, 2019

District: Chandel

Past weather for the of Imphal West (19th to 21st November, 2019):

No rainfall was observed during the past three days. The skies remained mainly clear to partly cloudy but foggy during morning hours of 21st Dec. Maximum temperature ranged from 26.2-26.7 °C and minimum of 11.4–13.0 °C. Mean relative humidity of 93 % max & 46.3 % min was recorded in the past three days & average wind speed was 1.3–1.6 km/hr.

Weather forecast for Chandel (23rd to 27th Nov, 2019):

Likely to have no rain upto Wednesday but there may be light rains on Tuesday. The sky will remain mainly clear to partly cloudy with max. temp. 22-24 °C & mini. temp. 6-8 °C. Relative humidity may reach upto 98 % (max) & 54 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Harvest mature crops. Thresh clean and sundry seeds properly in sun before storage. Store seeds in RC Seed Bin.
2. Monitor insect pest infestation/ diseases and water requirement of crops/ animals/ birds/ fishes regularly.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed	Sowing to vegetative		<ul style="list-style-type: none"> - Zero tillage rapeseed may be sown at 30 cm row spacing when the soil creates impression with forefinger. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety– M-27 and PM-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey mildew at seedling stage. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Field pea	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare. - Avoid plucking of young shoots. Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Lentil	Sowing to vegetative		<ul style="list-style-type: none"> - Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Potato	Planting to vegetative		<ul style="list-style-type: none"> - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare. - Weeding may be done if weed population is high.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome maturity to harvesting and post- harvesting		<ul style="list-style-type: none"> - 9 months old crops may be harvested. Harvested crop must be kept under rain shelter sheds for curing. After proper cleaning and grading it may be processed to powder for domestic as well as market use. Select healthy disease free rhizomes for seed.
Spinach beet (Palak)	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Monitor insect pest regularly. - Weeding may be done. - Light watering may be done during morning hours.
Onion	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Weeding may be done. - Light watering may be done during morning hours.
Broad bean/ Garden Pea/ French bean	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Weeding may be done.



Cabbage	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting. - Weeding may be done if weed population is high.
Cauliflower	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

* Protect birds and animals from cold.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Care and Management	Walls of sheds should be covered with polythene sheets/hessian cloths during the night.
		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.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Fish stocking may be done in small scale. Feeds should be provided @ 3 % body weight per day. Harvesting of fishes may be done. Select disease free fishes to be stocked as brooder.
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(I. Meghachandra Singh)
Scientist i/c, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 22nd November, 2019

District: Churachandpur

Past weather for the of Imphal West (19th to 21st November, 2019):

No rainfall was observed during the past three days. The skies remained mainly clear to partly cloudy but foggy during morning hours of 21st Dec. Maximum temperature ranged from 26.2-26.7 °C and minimum of 11.4–13.0 °C. Mean relative humidity of 93 % max & 46.3 % min was recorded in the past three days & average wind speed was 1.3–1.6 km/hr.

Weather forecast for Churachandpur (23rd to 27th Nov, 2019):

Likely to have no rain upto Wednesday but there may be light rains on Tuesday. The sky will remain mainly clear to partly cloudy with max. temp. 23-25 °C & mini. temp. 7-8 °C. Relative humidity may reach upto 97 % (max) & 41 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Harvest mature crops. Thresh clean and sundry seeds properly in sun before storage. Store seeds in RC Seed Bin.
2. Monitor insect pest infestation/ diseases and water requirement of crops/ animals/ birds/ fishes regularly.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed	Sowing to vegetative		<ul style="list-style-type: none"> - Zero tillage rapeseed may be sown at 30 cm row spacing when the soil creates impression with forefinger. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety– M-27 and PM-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey mildew at seedling stage. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Field pea	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare. - Avoid plucking of young shoots. Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Lentil	Sowing to vegetative		<ul style="list-style-type: none"> - Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Potato	Planting to vegetative		<ul style="list-style-type: none"> - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare. - Weeding may be done if weed population is high.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome maturity to harvesting and post- harvesting		<ul style="list-style-type: none"> - 9 months old crops may be harvested. Harvested crop must be kept under rain shelter sheds for curing. After proper cleaning and grading it may be processed to powder for domestic as well as market use. Select healthy disease free rhizomes for seed.
Spinach beet (Palak)	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Monitor insect pest regularly. - Weeding may be done. - Light watering may be done during morning hours.
Onion	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Weeding may be done. - Light watering may be done during morning hours.
Broad bean/ Garden Pea/ French bean	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Weeding may be done.



Cabbage	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting. - Weeding may be done if weed population is high.
Cauliflower	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

* Protect birds and animals from cold.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Care and Management	Walls of sheds should be covered with polythene sheets/hessian cloths during the night.
		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.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Fish stocking may be done in small scale. Feeds should be provided @ 3 % body weight per day. Harvesting of fishes may be done. Select disease free fishes to be stocked as brooder.
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(I. Meghachandra Singh)
Scientist i/c, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 22nd November, 2019

District: Imphal West

Past weather for the of Imphal West (19th to 21st November, 2019):

No rainfall was observed during the past three days. The skies remained mainly clear to partly cloudy but foggy during morning hours of 21st Dec. Maximum temperature ranged from 26.2-26.7 °C and minimum of 11.4–13.0 °C. Mean relative humidity of 93 % max & 46.3 % min was recorded in the past three days & average wind speed was 1.3–1.6 km/hr.

Weather forecast for Imphal East (23rd to 27th Nov, 2019):

Likely to have no rain upto Wednesday but there may be light rains on Tuesday. The sky will remain mainly clear to partly cloudy with max. temp. 23-25 °C & mini. temp. 7-9 °C. Relative humidity may reach upto 94 % (max) & 49 % (min). The average wind speed may be 5 km/hr.

General Advisory:

1. Harvest mature crops. Thresh clean and sundry seeds properly in sun before storage. Store seeds in RC Seed Bin.
2. Monitor insect pest infestation/ diseases and water requirement of crops/ animals/ birds/ fishes regularly.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed	Sowing to vegetative		<ul style="list-style-type: none"> - Zero tillage rapeseed may be sown at 30 cm row spacing when the soil creates impression with forefinger. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety– M-27 and PM-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey mildew at seedling stage. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Field pea	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare. - Avoid plucking of young shoots. Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Lentil	Sowing to vegetative		<ul style="list-style-type: none"> - Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Potato	Planting to vegetative		<ul style="list-style-type: none"> - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare. - Weeding may be done if weed population is high.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome maturity to harvesting and post- harvesting		<ul style="list-style-type: none"> - 9 months old crops may be harvested. Harvested crop must be kept under rain shelter sheds for curing. After proper cleaning and grading it may be processed to powder for domestic as well as market use. Select healthy disease free rhizomes for seed.
Spinach beet (Palak)	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Monitor insect pest regularly. - Weeding may be done. - Light watering may be done during morning hours.
Onion	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Weeding may be done. - Light watering may be done during morning hours.
Broad bean/ Garden Pea/ French bean	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Weeding may be done.



Cabbage	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting. - Weeding may be done if weed population is high.
Cauliflower	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

* Protect birds and animals from cold.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Care and Management	Walls of sheds should be covered with polythene sheets/hessian cloths during the night.
		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.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Fish stocking may be done in small scale. Feeds should be provided @ 3 % body weight per day. Harvesting of fishes may be done. Select disease free fishes to be stocked as brooder.
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(I. Meghachandra Singh)
Scientist i/c, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 22nd November, 2019

District: Imphal West

Past weather for the of Imphal West (19th to 21st November, 2019):

No rainfall was observed during the past three days. The skies remained mainly clear to partly cloudy but foggy during morning hours of 21st Dec. Maximum temperature ranged from 26.2-26.7 °C and minimum of 11.4–13.0 °C. Mean relative humidity of 93 % max & 46.3 % min was recorded in the past three days & average wind speed was 1.3–1.6 km/hr.

Weather forecast for Imphal West (23rd to 27th Nov, 2019):

Likely to have no rain upto Wednesday but there may be light rains on Tuesday. The sky will remain mainly clear to partly cloudy with max. temp. 23-25 °C & mini. temp. 7-9 °C. Relative humidity may reach upto 96 % (max) & 44 % (min). The average wind speed may be 4 km/hr.

General Advisory:

1. Harvest mature crops. Thresh clean and sundry seeds properly in sun before storage. Store seeds in RC Seed Bin.
2. Monitor insect pest infestation/ diseases and water requirement of crops/ animals/ birds/ fishes regularly.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed	Sowing to vegetative		<ul style="list-style-type: none"> - Zero tillage rapeseed may be sown at 30 cm row spacing when the soil creates impression with forefinger. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety– M-27 and PM-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey mildew at seedling stage. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Field pea	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare. - Avoid plucking of young shoots. Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Lentil	Sowing to vegetative		<ul style="list-style-type: none"> - Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Potato	Planting to vegetative		<ul style="list-style-type: none"> - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare. - Weeding may be done if weed population is high.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome maturity to harvesting and post- harvesting		<ul style="list-style-type: none"> - 9 months old crops may be harvested. Harvested crop must be kept under rain shelter sheds for curing. After proper cleaning and grading it may be processed to powder for domestic as well as market use. Select healthy disease free rhizomes for seed.
Spinach beet (Palak)	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Monitor insect pest regularly. - Weeding may be done. - Light watering may be done during morning hours.
Onion	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Weeding may be done. - Light watering may be done during morning hours.
Broad bean/ Garden Pea/ French bean	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Weeding may be done.



Cabbage	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting. - Weeding may be done if weed population is high.
Cauliflower	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

* Protect birds and animals from cold.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Care and Management	Walls of sheds should be covered with polythene sheets/hessian cloths during the night.
		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.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Fish stocking may be done in small scale. Feeds should be provided @ 3 % body weight per day. Harvesting of fishes may be done. Select disease free fishes to be stocked as brooder.
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(I. Meghachandra Singh)
Scientist i/c, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 22nd November, 2019

District: Senapati

Past weather for the of Imphal West (19th to 21st November, 2019):

No rainfall was observed during the past three days. The skies remained mainly clear to partly cloudy but foggy during morning hours of 21st Dec. Maximum temperature ranged from 26.2-26.7 °C and minimum of 11.4–13.0 °C. Mean relative humidity of 93 % max & 46.3 % min was recorded in the past three days & average wind speed was 1.3–1.6 km/hr.

Weather forecast for Senapati (23rd to 27th Nov, 2019):

Likely to have no rain upto Wednesday but there may be light rains on Tuesday. The sky will remain mainly clear to partly cloudy with max. temp. 20-22 °C & mini. temp. 5-7 °C. Relative humidity may reach upto 96 % (max) & 47 % (min). The average wind speed may be 4 km/hr.

General Advisory:

1. Harvest mature crops. Thresh clean and sundry seeds properly in sun before storage. Store seeds in RC Seed Bin.
2. Monitor insect pest infestation/ diseases and water requirement of crops/ animals/ birds/ fishes regularly.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed	Sowing to vegetative		<ul style="list-style-type: none"> - Zero tillage rapeseed may be sown at 30 cm row spacing when the soil creates impression with forefinger. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety– M-27 and PM-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey mildew at seedling stage. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Field pea	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare. - Avoid plucking of young shoots. Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Lentil	Sowing to vegetative		<ul style="list-style-type: none"> - Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Potato	Planting to vegetative		<ul style="list-style-type: none"> - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare. - Weeding may be done if weed population is high.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome maturity to harvesting and post- harvesting		<ul style="list-style-type: none"> - 9 months old crops may be harvested. Harvested crop must be kept under rain shelter sheds for curing. After proper cleaning and grading it may be processed to powder for domestic as well as market use. Select healthy disease free rhizomes for seed.
Spinach beet (Palak)	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Monitor insect pest regularly. - Weeding may be done. - Light watering may be done during morning hours.
Onion	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Weeding may be done. - Light watering may be done during morning hours.
Broad bean/ Garden Pea/ French bean	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Weeding may be done.



Cabbage	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting. - Weeding may be done if weed population is high.
Cauliflower	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

* Protect birds and animals from cold.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Care and Management	Walls of sheds should be covered with polythene sheets/hessian cloths during the night.
		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.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Skin disease	Sprayer of Anti-Psoroptic may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Fish stocking may be done in small scale. Feeds should be provided @ 3 % body weight per day. Harvesting of fishes may be done. Select disease free fishes to be stocked as brooder.
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(I. Meghachandra Singh)
Scientist i/c, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 22nd November, 2019

District: Tamenglong

Past weather for the of Imphal West (19th to 21st November, 2019):

No rainfall was observed during the past three days. The skies remained mainly clear to partly cloudy but foggy during morning hours of 21st Dec. Maximum temperature ranged from 26.2-26.7 °C and minimum of 11.4–13.0 °C. Mean relative humidity of 93 % max & 46.3 % min was recorded in the past three days & average wind speed was 1.3–1.6 km/hr.

Weather forecast for Tamenglong (23rd to 27th Nov, 2019):

Likely to have no rain upto Wednesday but there may be light rains on Tuesday. The sky will remain mainly clear to partly cloudy with max. temp. 21-23 °C & mini. temp. 5-7 °C. Relative humidity may reach upto 96 % (max) & 44 % (min). The average wind speed may be 4 km/hr.

General Advisory:

1. Harvest mature crops. Thresh clean and sundry seeds properly in sun before storage. Store seeds in RC Seed Bin.
2. Monitor insect pest infestation/ diseases and water requirement of crops/ animals/ birds/ fishes regularly.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed	Sowing to vegetative		<ul style="list-style-type: none"> - Zero tillage rapeseed may be sown at 30 cm row spacing when the soil creates impression with forefinger. - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety– M-27 and PM-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey mildew at seedling stage. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Field pea	Sowing to vegetative		<ul style="list-style-type: none"> - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare. - Avoid plucking of young shoots. Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Lentil	Sowing to vegetative		<ul style="list-style-type: none"> - Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows. - Thinning may be done where plant population is dense. - Weeding may be done if weed population is high.
Potato	Planting to vegetative		<ul style="list-style-type: none"> - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare. - Weeding may be done if weed population is high.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome maturity to harvesting and post- harvesting		<ul style="list-style-type: none"> - 9 months old crops may be harvested. Harvested crop must be kept under rain shelter sheds for curing. After proper cleaning and grading it may be processed to powder for domestic as well as market use. Select healthy disease free rhizomes for seed.
Spinach beet (Palak)	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Monitor insect pest regularly. - Weeding may be done. - Light watering may be done during morning hours.
Onion	Vegetative		<ul style="list-style-type: none"> - Keep soil moist during vegetative stage. Weeding may be done. - Light watering may be done during morning hours.
Broad bean/ Garden Pea/ French bean	Vegetative to flowering and fruiting		<ul style="list-style-type: none"> - Weeding may be done.



Cabbage	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting. - Weeding may be done if weed population is high.
Cauliflower	Transplanting to vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

* Protect birds and animals from cold.

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Care and Management	Walls of sheds should be covered with polythene sheets/hessian cloths during the night.
		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.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Sheds must be kept dry. Use bedding materials.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Deworming	Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

* Harvest rain water to maintain fish pond water.

Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Fish stocking may be done in small scale. Feeds should be provided @ 3 % body weight per day. Harvesting of fishes may be done. Select disease free fishes to be stocked as brooder.
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(I. Meghachandra Singh)
Scientist i/c, GKMS